

# QuickSpecs

## HPE ProLiant DL360 Gen10 Server

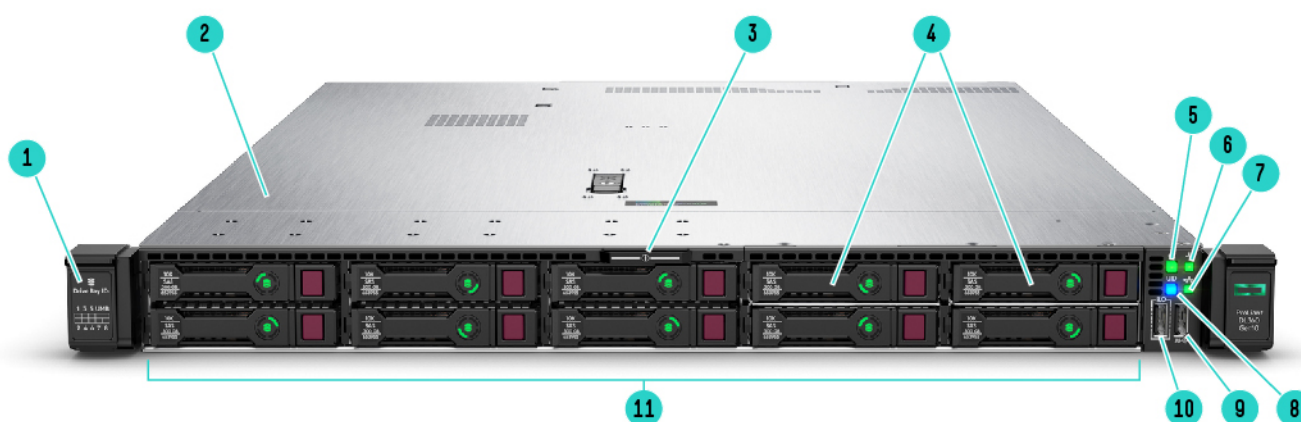
### Overview

The U.S. version of QuickSpecs is no longer being updated, please reference the Worldwide QuickSpecs for latest information

### HPE ProLiant DL360 Gen10 Server

Does your data center need a secure, performance driven dense server that you can confidently deploy for virtualization, database, or high-performance computing? The HPE ProLiant DL360 Gen10 server delivers security, agility and flexibility without compromise.

The HPE ProLiant DL360 Gen10 Server supports the Intel® Xeon® Scalable Processor Family with up to 28 cores, plus 2933 MT/s HPE DDR4 SmartMemory supporting up to 3.0 TB max. With the added performance that HPE Persistent Memory, HPE NVDIMMs and 10 NVMe bring, the HPE ProLiant DL360 Gen10 means business. Deploy this dense platform for diverse workloads in space constrained environments and maintain it with ease by automating the most essential server lifecycle management tasks with HPE OneView and HPE iLO 5.



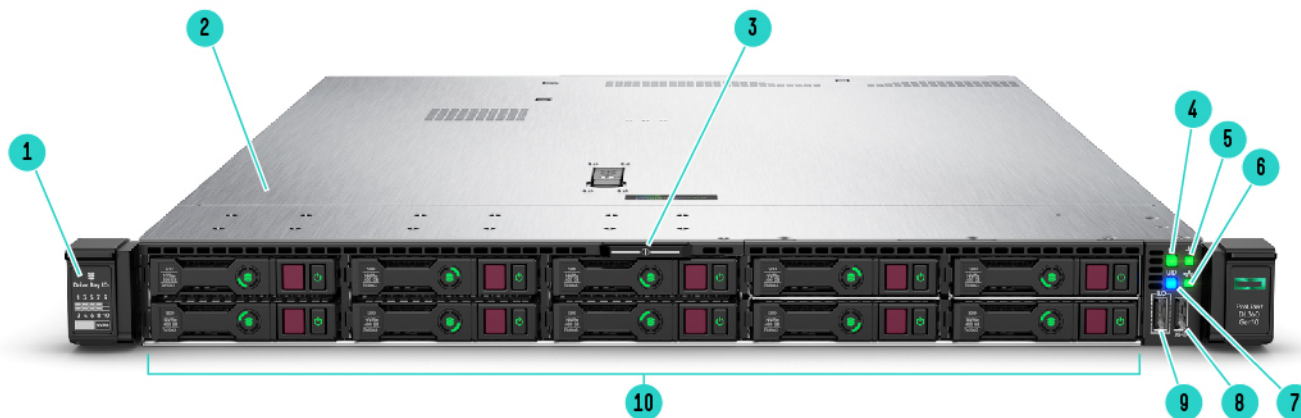
8 SFF Front View – 8 SFF + 2 SFF- Universal Media Bay option shown

- |                                                             |                                                 |
|-------------------------------------------------------------|-------------------------------------------------|
| 1. Drive support label                                      | 5. Power On/Standby button and system power LED |
| 2. Quick removal access panel                               | 6. Health LED                                   |
| 3. Serial no. label pull tab                                | 7. NIC status LED                               |
| 4. Universal Media Bay: +2 SFF SAS/SATA shown               | 8. UID button/LED                               |
| Option: +2 SFF NVMe drives                                  | 9. USB 3.0 port                                 |
| Option: DVD-RW or DVD-ROM + Display port & USB 2.0 port Kit | 10. iLO Service Port                            |
| Option: +2 Dual uFF (4x M.2 cartridges)                     | 11. Standard 8 SAS/SATA drive bays              |
| Option: Display port + USB 2.0 port Kit + Blank             |                                                 |

**NOTE:** Rear drive option allows for an additional + 1 SFF or +1 Dual uFF (2x M.2 cartridges).

**NOTE:** System Insight Display (SID) module will include #5-9 above (will not include #10 - iLO Service Port).

## Overview

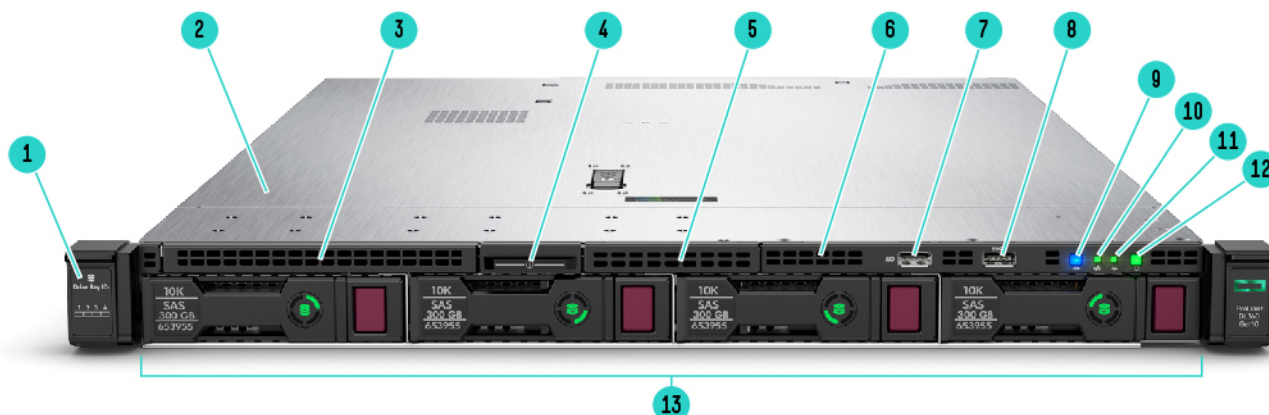


**Premium 10SFF NVMe Front View**

- |                                                 |                                                                                 |
|-------------------------------------------------|---------------------------------------------------------------------------------|
| 1. Drive support label                          | 6. NIC status LED                                                               |
| 2. Quick removal access panel                   | 7. UID button/LED                                                               |
| 3. Serial no. label pull tab                    | 8. USB 3.0 port                                                                 |
| 4. Power On/Standby button and system power LED | 9. iLO Service Port                                                             |
| 5. Health LED                                   | 10. Max up to 10 NVMe drives (PCIe direct attached) or 8 SAS/SATA/NVMe + 2 NVMe |

**NOTE:** Rear drive option allows for an additional + 1 SFF or +1 Dual uFF (2x M.2 cartridges).

**NOTE:** System Insight Display (SID) module will include #4-8 above (will not include #9 - iLO Service Port).



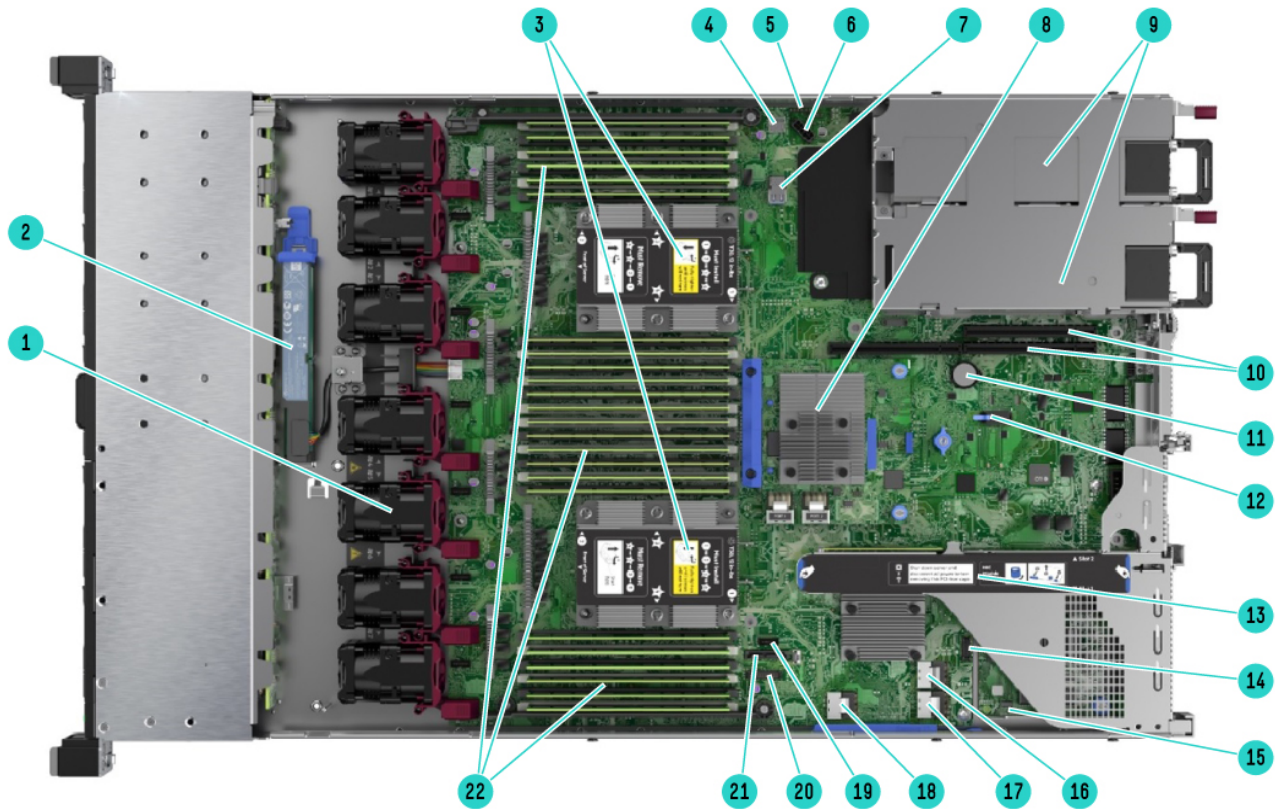
**4 LFF Front View – Standard 4 LFF shown**

- |                                                                       |                                                  |
|-----------------------------------------------------------------------|--------------------------------------------------|
| 1. Drive support label                                                | 8. USB 3.0 Port                                  |
| 2. Quick removal access panel                                         | 9. UID button/LED                                |
| 3. Option: DVD-RW or DVD-ROM (blank shown)                            | 10. Power On/Standby button and system power LED |
| 4. Serial no. label pull tab                                          | 11. Health LED                                   |
| 5. Option: Display port & USB 2.0 port Kit (blank shown)              | 12. NIC status LED                               |
| 6. Option: System insight Display (SID) - standard shown <sup>6</sup> | 13. SAS/SATA drive bays                          |
| 7. iLO Service Port                                                   |                                                  |

**NOTE:** <sup>6</sup> This option will lose #7 iLO Service Port.

**NOTE:** Rear drive option allows for additional + 1 SFF or +1 Dual uFF (2x M.2 cartridges), will lose one FH PCIe slot.

## Overview



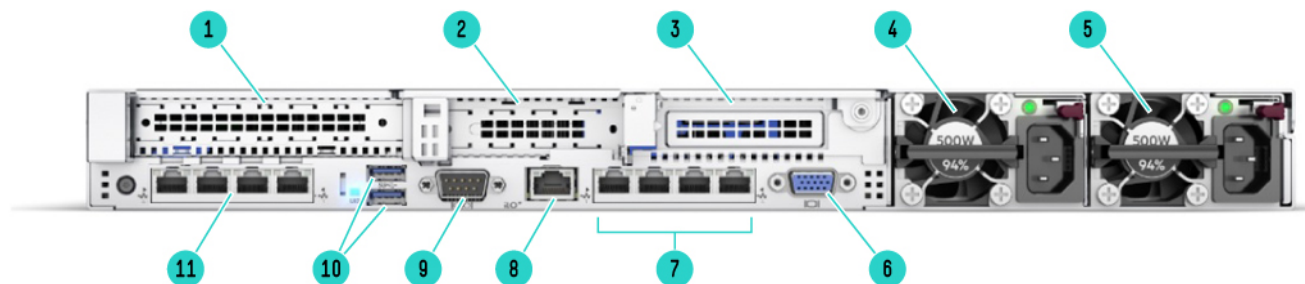
### Internal View - Standard for all DL360 Gen10

- |                                                                                                                                                                  |                                                                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. For 8 SFF or 4 LFF - Standard single rotor hot plug fans <sup>1</sup><br>1 CPU – 5 standard fans<br>2 CPUs – 7 standard fans<br>Option: High Performance fans | 13. Primary (CPU1) PCIe 3.0 riser (Standard: GPU power connector + 1x 16 and 1x 8)<br>Option: 2 SATA M.2 + 2x 16<br>Option: (8 SFF only): 2x 4 NVMe + 1x 16 and 1x 8 |
| 2. Option: HPE Smart Hybrid Capacitor or HPE Smart Storage Battery                                                                                               | 14. Option: Front Display port / USB 2.0                                                                                                                             |
| 3. Up to 2 processors (shown with standard heat sinks)                                                                                                           | 15. FlexibleLOM (supports various NICs up to 25GbE)                                                                                                                  |
| 4. MicroSD card slot                                                                                                                                             | 16. x4 SATA port 1                                                                                                                                                   |
| 5. Option: Chassis Intrusion Detection                                                                                                                           | 17. x4 SATA port 2                                                                                                                                                   |
| 6. Hard Drive backplane power connector                                                                                                                          | 18. x2 SATA port 3                                                                                                                                                   |
| 7. Dual internal USB 3.0 connector                                                                                                                               | 19. x1 SATA port 4                                                                                                                                                   |
| 8. Smart Array Controller (Type -a shown)                                                                                                                        | 20. Front Power USB 3.0 connector                                                                                                                                    |
| 9. Up to 2 Power Supplies for redundant power                                                                                                                    | 21. Optical/SATA port 5                                                                                                                                              |
| 10. Secondary (CPU2) PCIe 3.0 riser<br>Option: Full Height x16 (Lose slot 2 on Primary riser) <sup>10</sup>                                                      | 22. DDR4 DIMM slots (Fully populated 24 DIMMs shown)                                                                                                                 |
| 11. System Battery                                                                                                                                               |                                                                                                                                                                      |
| 12. Optional: TPM 2.0                                                                                                                                            |                                                                                                                                                                      |

**NOTE:** <sup>1</sup>For 10 NVMe chassis - 7 High Performance fans

**NOTE:** <sup>10</sup>For 10 NVMe chassis – Secondary Riser is not available due to 10 x4 NVMe riser for PCIe direct attached

## Overview



**Rear View – Standard for all DL360 Gen10**

- |                                                                                               |                                                        |
|-----------------------------------------------------------------------------------------------|--------------------------------------------------------|
| 1. Slot 1 PCIe 3.0<br>Option: Rear Drive +1 SFF or 1 uFF SSD (2x M.2 cartridges) <sup>1</sup> | 7. Embedded 4x 1GbE Adapter                            |
| 2. Slot 2 PCIe 3.0                                                                            | 8. iLO Management Port                                 |
| 3. Option: Slot 3 PCIe 3.0 (Requires 2 <sup>nd</sup> processor)                               | 9. Option: Serial Port                                 |
| 4. Power Supply 2                                                                             | 10. USB 3.0 Ports                                      |
| 5. Power Supply 1                                                                             | 11. Option: FlexibleLOM (Shown: 4x 1GbE) <sup>11</sup> |
| 6. VGA port                                                                                   |                                                        |

**NOTE:** <sup>1</sup>Will lose one FH x16 PCIe slot1 with this option.

**NOTE:** <sup>11</sup>Supports Various NICs up to 25GbE.

## What's New

- 2nd generation Intel® Xeon® Scalable Processor Family
- 128/256/512GB 2666 Persistent Memory Kit featuring Intel® Optane™ DC persistent memory
- 128GB 4Rx4 PC4-2933-L Smart Kit
- 960GB, 1.92/2.0/3.84/4.0/7.68/15.36TB NVMe Read Intensive SFF SSDs
- 800GB 1.6/3.2/6.4TB NVMe Mixed Use SFF SSDs
- 750GB NVMe Write Intensive SFF SSDs
- HPE Ethernet 10Gb 2p 524SFP+ Adapter
- HPE Ethernet 10Gb 2p 548SFP+ Adapter

## Platform Information

### Form Factor

1U rack

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### Chassis Types

8 SFF with options supporting: +2 SFF or 2 NVMe or 2 Dual uFF (4x M.2 cartridges)

10 SFF NVMe Premium

4 LFF

**NOTE:** Rear drive option available on all DL360 Gen10 chassis types for additional boot/storage: +1SFF or 1 Dual uFF (2x M.2 cartridges).

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### System Fans

Single rotor hot plug fans will be included

#### For 4 LFF and 8 SFF chassis:

- 1 CPU – Includes 5 standard fans
- 2 CPUs – Includes 7 standard fans

**NOTE:** Optional High Performance Fan Kit available (includes 7 fans).

**NOTE:** The DL360 Gen10 will support up to 7 fans with fan redundancy built in. One fan rotor failure will place server in degraded mode but fully functional. Two fan rotor failures could provide warning and imminent server shutdown.

#### For 10 NVMe Premium chassis:

- 2 CPUs – Includes 7 high performance fans as standard
-



## Standard Features

### Standard Features

Processors – Up to 2 of the following depending on model.

**NOTE:** The 2nd digit of the processor model number “x1xx” and “x2xx” is used to denote the processor generation (i.e. 1=1st generation and 2=2nd generation)

**NOTE:** “U” processors (i.e. 6212U) only supported in single socket configurations

**NOTE:** This table covers the public Intel offering only.

**NOTE:** For more information regarding Intel Xeon processors, please see the following <http://www.intel.com/xeon>.

| Processor Suffix | Description          | Offering                                                                                                                                                                                                                                                  |
|------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>L</b>         | Large memory tier    | Up to 4.5 TB addressable memory per socket                                                                                                                                                                                                                |
| <b>M</b>         | Medium memory tier   | Up to 2.0 TB addressable memory per socket                                                                                                                                                                                                                |
| <b>N</b>         | NFV Optimized        | Targeted at Network Function Virtualization (NFV) workloads. Intel® SST-BF improves performance by directing base frequency to high priority/bottleneck cores. Other workloads may see throttling, more details to be provided in upcoming documentation. |
| <b>S</b>         | Search Optimized     | Optimized base frequency to address ‘search’ workloads. Other workloads may see throttling, more details to be provided in upcoming documentation.                                                                                                        |
| <b>U</b>         | 1 Socket Optimized   | Focused on single socket (1P) configurations deliver performance at competitive price points. Does not support two socket (2P) arrangements.                                                                                                              |
| <b>V</b>         | VM Density Optimized | Fosters enhanced VM density, allowing to support more/larger virtual machines per host.                                                                                                                                                                   |
| <b>Y</b>         | Speed Select         | Intel® SST-PP increases base frequency when fewer cores are enabled. Allows greater flexibility, deployment options and platform longevity.                                                                                                               |

**NOTE:** More than 1.5 TB memory per socket requires HPE Persistent Memory

### 2<sup>nd</sup> Generation Intel® Xeon® Scalable Processor Family

| Intel Xeon Models        | CPU Frequency                 | Cores          | L3 Cache | Power | UPI           | DDR4      | Memory per socket |
|--------------------------|-------------------------------|----------------|----------|-------|---------------|-----------|-------------------|
| Platinum 8280 Processor  | 2.7 GHz                       | 28             | 38.50 MB | 205W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Platinum 8280L Processor | 2.7 GHz                       | 28             | 38.50 MB | 205W  | 3 @ 10.4 GT/s | 2933 MT/s | 4.5TB             |
| Platinum 8280M Processor | 2.7 GHz                       | 28             | 38.50 MB | 205W  | 3 @ 10.4 GT/s | 2933 MT/s | 2TB               |
| Platinum 8276 Processor  | 2.2 GHz                       | 28             | 38.50 MB | 165W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Platinum 8276L Processor | 2.2 GHz                       | 28             | 38.50 MB | 165W  | 3 @ 10.4 GT/s | 2933 MT/s | 4.5TB             |
| Platinum 8276M Processor | 2.2 GHz                       | 28             | 38.50 MB | 165W  | 3 @ 10.4 GT/s | 2933 MT/s | 2TB               |
| Platinum 8270 Processor  | 2.7 GHz                       | 26             | 35.75 MB | 205W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Platinum 8268 Processor  | 2.9 GHz                       | 24             | 35.75 MB | 205W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Platinum 8260 Processor  | 2.4 GHz                       | 24             | 35.75 MB | 165W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Platinum 8260L Processor | 2.4 GHz                       | 24             | 35.75 MB | 165W  | 3 @ 10.4 GT/s | 2933 MT/s | 4.5TB             |
| Platinum 8260M Processor | 2.4 GHz                       | 24             | 35.75 MB | 165W  | 3 @ 10.4 GT/s | 2933 MT/s | 2TB               |
| Platinum 8260Y Processor | 2.4 GHz<br>2.5 GHz<br>2.7 GHz | 24<br>20<br>16 | 35.75 MB | 165W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Platinum 8256 Processor  | 3.8 GHz                       | 4              | 16.50 MB | 105W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Platinum 8253 Processor  | 2.2 GHz                       | 16             | 22.00 MB | 125W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |

### NOTES:

6-Channel DDR4 @ 2933 MT/s.

6TB max RAM (larger than 2TB memory per socket on select SKUs)

Support for: HPE Persistent Memory, Vector Neural Network Instructions (VNNI) for inference acceleration.

2 and 4 socket capable, 2S - 2UPI, 2S - 3UPI, 4S - 3UPI @ 10.4 GT/s.

Intel Turbo Boost Technology, Intel Hyper-Threading Technology Intel AVX-512 (2x 512-bit FMA).

48 lanes PCIe 3.0, advanced RAS

## QuickSpecs

## HPE ProLiant DL360 Gen10 Server

### Standard Features

#### 1<sup>st</sup> Generation Intel® Xeon® Scalable Processor Family

| Intel Xeon Models        | CPU Frequency | Cores | L3 Cache | Power | UPI           | DDR4      | Memory per socket |
|--------------------------|---------------|-------|----------|-------|---------------|-----------|-------------------|
| Platinum 8180M Processor | 2.5 GHz       | 28    | 38.50 MB | 205W  | 3 @ 10.4 GT/s | 2666 MT/s | 1.5TB             |
| Platinum 8180 Processor  | 2.5 GHz       | 28    | 38.50 MB | 205W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Platinum 8176 Processor  | 2.1 GHz       | 28    | 38.50 MB | 165W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Platinum 8170 Processor  | 2.1 GHz       | 26    | 35.75 MB | 165W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Platinum 8168 Processor  | 2.7 GHz       | 24    | 33.00 MB | 205W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Platinum 8165 Processor  | 2.3 GHz       | 24    | 33.00 MB | 205W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Platinum 8164 Processor  | 2.0 GHz       | 26    | 35.75 MB | 150W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Platinum 8160M Processor | 2.1 GHz       | 24    | 33.00 MB | 150W  | 3 @ 10.4 GT/s | 2666 MT/s | 1.5TB             |
| Platinum 8160 Processor  | 2.1 GHz       | 24    | 33.00 MB | 150W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Platinum 8158 Processor  | 3.0 GHz       | 12    | 24.75 MB | 150W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Platinum 8156 Processor  | 3.6 GHz       | 4     | 16.50 MB | 105W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Platinum 8153 Processor  | 2.0 GHz       | 16    | 22.00 MB | 125W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |

#### NOTES:

6-Channel 1DPC DDR4 @ 2666 MT/s.

768 GB max memory capacity (1.5 TB on select skus)

2 and 4 socket capable, 2S - 2UPI, 4S - 3UPI, 8S - 3UPI @ 10.4 GT/s.

Intel Turbo Boost Technology, Intel Hyper-Threading Technology Intel AVX-512 (2x 512-bit FMA).

48 lanes PCIe 3.0, advanced RAS.

#### 2<sup>nd</sup> Generation Intel® Xeon® Scalable Processor Family

| Intel Xeon Models    | CPU Frequency | Cores | L3 Cache | Power | UPI           | DDR4      | Memory per socket |
|----------------------|---------------|-------|----------|-------|---------------|-----------|-------------------|
| Gold 6262V Processor | 1.9 GHz       | 24    | 33.00 MB | 135W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Gold 6254 Processor  | 3.1 GHz       | 18    | 24.75 MB | 200W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Gold 6252 Processor  | 2.1 GHz       | 24    | 35.75 MB | 150W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Gold 6252N Processor | 2.3 GHz       | 24    | 35.75MB  | 150W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Gold 6248 Processor  | 2.5 GHz       | 20    | 27.5 MB  | 150W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Gold 6246 Processor  | 3.3 GHz       | 12    | 24.75 MB | 165W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Gold 6244 Processor  | 3.6 GHz       | 8     | 24.75 MB | 150W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Gold 6242 Processor  | 2.8 GHz       | 16    | 22 MB    | 150W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Gold 6240 Processor  | 2.6 GHz       | 18    | 24.75 MB | 150W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Gold 6240Y Processor | 2.6 GHz       | 18    | 24.75 MB | 150W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
|                      | 2.8 GHz       | 14    |          |       |               |           |                   |
|                      | 3.1 GHz       | 8     |          |       |               |           |                   |
| Gold 6240L Processor | 2.6 GHz       | 18    | 24.75 MB | 150W  | 3 @ 10.4 GT/s | 2933 MT/s | 4.5TB             |
| Gold 6240M Processor | 2.6 GHz       | 18    | 24.75 MB | 150W  | 3 @ 10.4 GT/s | 2933 MT/s | 2TB               |
| Gold 6238 Processor  | 2.1 GHz       | 22    | 30.25 MB | 140W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Gold 6238L Processor | 2.1 GHz       | 22    | 30.25 MB | 140W  | 3 @ 10.4 GT/s | 2933 MT/s | 4.5TB             |
| Gold 6238M Processor | 2.1 GHz       | 22    | 30.25 MB | 140W  | 3 @ 10.4 GT/s | 2933 MT/s | 2TB               |
| Gold 6234 Processor  | 3.3 GHz       | 8     | 24.75 MB | 130W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Gold 6230 Processor  | 2.1 GHz       | 20    | 27.5 MB  | 125W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Gold 6230N Processor | 2.3 GHz       | 20    | 27.50 MB | 125W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Gold 6226 Processor  | 2.7 GHz       | 12    | 19.25 MB | 125W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Gold 6222V Processor | 1.8 GHz       | 20    | 27.50 MB | 115W  | 3 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Gold 6212U Processor | 2.4 GHz       | 24    | 35.75 MB | 165W  | N/A           | 2933 MT/s | 1TB               |
| Gold 6210U Processor | 2.5 GHz       | 20    | 27.50 MB | 150W  | N/A           | 2933 MT/s | 1TB               |
| Gold 6209U Processor | 2.1 GHz       | 20    | 27.50 MB | 125W  | N/A           | 2933 MT/s | 1TB               |
| Gold 5222 Processor  | 3.8 GHz       | 4     | 16.5 MB  | 105W  | 2 @ 10.4 GT/s | 2933 MT/s | 1TB               |
| Gold 5220 Processor  | 2.2 GHz       | 18    | 24.75 MB | 125W  | 2 @ 10.4 GT/s | 2666 MT/s | 1TB               |
| Gold 5220S Processor | 2.7 GHz       | 18    | 24.75 MB | 125W  | 2 @ 10.4 GT/s | 2666 MT/s | 1TB               |
| Gold 5218 Processor  | 2.3 GHz       | 16    | 22 MB    | 125W  | 2 @ 10.4 GT/s | 2666 MT/s | 1TB               |

## QuickSpecs

## HPE ProLiant DL360 Gen10 Server

### Standard Features

| 2 <sup>nd</sup> Generation Intel® Xeon® Scalable Processor Family |               |       |          |       |               |           |                   |
|-------------------------------------------------------------------|---------------|-------|----------|-------|---------------|-----------|-------------------|
| Intel Xeon Models                                                 | CPU Frequency | Cores | L3 Cache | Power | UPI           | DDR4      | Memory per socket |
| Gold 5218N Processor *                                            | 2.3 GHz       | 16    | 22 MB    | 110W  | 2 @ 10.4 GT/s | 2666 MT/s | 1TB               |
| Gold 5218B Processor *                                            | 2.3 GHz       | 16    | 22 MB    | 125W  | 2 @ 10.4 GT/s | 2666 MT/s | 1TB               |
| Gold 5217 Processor                                               | 3.0 GHz       | 8     | 11 MB    | 115W  | 2 @ 10.4 GT/s | 2666 MT/s | 1TB               |
| Gold 5215 Processor                                               | 2.5 GHz       | 10    | 13.75 MB | 85W   | 2 @ 10.4 GT/s | 2666 MT/s | 1TB               |
| Gold 5215L Processor                                              | 2.5 GHz       | 10    | 13.75 MB | 85W   | 2 @ 10.4 GT/s | 2666 MT/s | 4.5TB             |
| Gold 5215M Processor                                              | 2.5 GHz       | 10    | 13.75 MB | 85W   | 2 @ 10.4 GT/s | 2666 MT/s | 2TB               |

#### NOTES:

5218N processor- Intel® Speed Select Technology-Base Frequency enablement via June 2019 System ROM upgrade  
 5218B has consistent features with the 5218 processor but from a different die. Mixing both 5218B & 5218 in a system is not supported  
 6-Channel DDR4 @ 2933 MT/s (Gold 6200 & 5222 skus only), 2666 MT/s on all Gold 5200 skus (except 5222 @ 2933 MT/s).  
 6TB max RAM (larger than 2TB memory per socket on select SKUs)  
 Support for: HPE Persistent Memory, Vector Neural Network Instructions (VNNI) for inference acceleration.  
 2 and 4 socket capable, 2S - 2UPI, 2S - 3UPI, 4S - 3UPI @ 10.4 GT/s.  
 Intel Turbo Boost Technology, Intel Hyper-Threading Technology Intel AVX-512 (2x 512-bit FMA).  
 48 lanes PCIe 3.0, advanced RAS

| 1 <sup>st</sup> Generation Intel® Xeon® Scalable Processor Family |               |       |          |       |               |           |                   |
|-------------------------------------------------------------------|---------------|-------|----------|-------|---------------|-----------|-------------------|
| Intel Xeon Models                                                 | CPU Frequency | Cores | L3 Cache | Power | UPI           | DDR4      | Memory per socket |
| Gold 6154 Processor                                               | 3.0 GHz       | 18    | 24.75 MB | 200W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Gold 6152 Processor                                               | 2.1 GHz       | 22    | 30.25 MB | 140W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Gold 6150 Processor                                               | 2.7 GHz       | 18    | 24.75 MB | 165W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Gold 6148 Processor                                               | 2.4 GHz       | 20    | 27.50 MB | 150W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Gold 6146 Processor                                               | 3.2 GHz       | 12    | 24.75 MB | 165W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Gold 6144 Processor                                               | 3.5 GHz       | 8     | 24.75 MB | 150W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Gold 6143 Processor                                               | 2.8 GHz       | 16    | 22.00 MB | 205W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Gold 6142 Processor                                               | 2.6 GHz       | 16    | 22.00 MB | 150W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Gold 6140 Processor                                               | 2.3 GHz       | 18    | 24.75 MB | 140W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Gold 6138 Processor                                               | 2.0 GHz       | 20    | 27.50 MB | 125W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Gold 6136 Processor                                               | 3.0 GHz       | 12    | 24.75 MB | 150W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Gold 6134M Processor                                              | 3.2 GHz       | 8     | 24.75 MB | 130W  | 3 @ 10.4 GT/s | 2666 MT/s | 1.5TB             |
| Gold 6134 Processor                                               | 3.2 GHz       | 8     | 24.75 MB | 130W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Gold 6132 Processor                                               | 2.6 GHz       | 14    | 19.25 MB | 140W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Gold 6130 Processor                                               | 2.1 GHz       | 16    | 22.00 MB | 125W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Gold 6128 Processor                                               | 3.4 GHz       | 6     | 19.25 MB | 115W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Gold 6126 Processor                                               | 2.6 GHz       | 12    | 19.25 MB | 125W  | 3 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Gold 5122 Processor                                               | 3.6 GHz       | 4     | 16.50 MB | 105W  | 2 @ 10.4 GT/s | 2666 MT/s | 768GB             |
| Gold 5120 Processor                                               | 2.2 GHz       | 14    | 19.25 MB | 105W  | 2 @ 10.4 GT/s | 2400 MT/s | 768GB             |
| Gold 5118 Processor                                               | 2.3 GHz       | 12    | 16.50 MB | 105W  | 2 @ 10.4 GT/s | 2400 MT/s | 768GB             |
| Gold 5117 processor                                               | 2.0GHz        | 14    | 19.25 MB | 105W  | 2 @ 10.4 GT/s | 2400 MT/s | 768GB             |
| Gold 5115 Processor                                               | 2.4 GHz       | 10    | 13.75 MB | 85W   | 2 @ 10.4 GT/s | 2400 MT/s | 768GB             |

#### NOTES:

6-Channel 1DPC DDR4 @ 2400 MT/s (SKU 5122 - supports 2666 MT/s).  
 768 GB max memory capacity (1.5 TB on select skus).  
 2 and 4 socket capable, 2S - 2UPI, 4S - 3UPI @ 10.4 GT/s.  
 Intel Turbo Boost Technology, Intel Hyper-Threading Technology, Intel AVX-512 (1x 512-bit FMA) (SKU 5122 - supports 2x 512 bit FMA).  
 48 lanes PCIe 3.0, advanced RAS.



## Standard Features

### 2<sup>nd</sup> Generation Intel® Xeon® Scalable Processor Family

| Intel Xeon Models      | CPU Frequency | Cores | L3 Cache | Power | UPI          | DDR4      | Memory per socket |
|------------------------|---------------|-------|----------|-------|--------------|-----------|-------------------|
| Silver 4216 Processor  | 2.1 GHz       | 16    | 22 MB    | 100W  | 2 @ 9.6 GT/s | 2400 MT/s | 1TB               |
| Silver 4215 Processor  | 2.5 GHz       | 8     | 11 MB    | 85W   | 2 @ 9.6 GT/s | 2400 MT/s | 1TB               |
| Silver 4214Y Processor | 2.2 GHz       | 12    | 16.5 MB  | 85W   | 2 @ 9.6 GT/s | 2400 MT/s | 1TB               |
|                        | 2.3 GHz       | 10    |          |       |              |           |                   |
|                        | 2.4 GHz       | 8     |          |       |              |           |                   |
| Silver 4214 Processor  | 2.2 GHz       | 12    | 16.5 MB  | 85W   | 2 @ 9.6 GT/s | 2400 MT/s | 1TB               |
| Silver 4210 Processor  | 2.2 GHz       | 10    | 13.75 MB | 85W   | 2 @ 9.6 GT/s | 2400 MT/s | 1TB               |
| Silver 4208 Processor  | 2.1 GHz       | 8     | 11 MB    | 85W   | 2 @ 9.6 GT/s | 2400 MT/s | 1TB               |

#### NOTES:

6-Channel DDR4 @ 2400 MT/s.

2TB max RAM

Support for: HPE Persistent Memory (4215 **only**), Intel® Vector Neural Network Instructions (VNNI) for inference acceleration.

2 and 4 socket capable, 2S - 2UPI, 2S - 3UPI, 4S - 3UPI @ 9.6 GT/s.

Intel Turbo Boost Technology, Intel Hyper-Threading Technology Intel AVX-512 (2x 512-bit FMA).

48 lanes PCIe 3.0, standard RAS

### 1<sup>st</sup> Generation Intel® Xeon® Scalable Processor Family

|                       |         |    |          |     |              |           |       |
|-----------------------|---------|----|----------|-----|--------------|-----------|-------|
| Silver 4116 Processor | 2.1 GHz | 12 | 16.50 MB | 85W | 2 @ 9.6 GT/s | 2400 MT/s | 768GB |
| Silver 4114 Processor | 2.2 GHz | 10 | 13.75 MB | 85W | 2 @ 9.6 GT/s | 2400 MT/s | 768GB |
| Silver 4112 Processor | 2.6 GHz | 4  | 8.25 MB  | 85W | 2 @ 9.6 GT/s | 2400 MT/s | 768GB |
| Silver 4110 Processor | 2.1 GHz | 8  | 11.00 MB | 85W | 2 @ 9.6 GT/s | 2400 MT/s | 768GB |
| Silver 4108 Processor | 1.8 GHz | 8  | 11.00 MB | 85W | 2 @ 9.6 GT/s | 2400 MT/s | 768GB |

#### NOTES:

6-Channel DDR4 @ 2400 MT/s, 768 GB max memory capacity.

2 socket capable, 2S - 2UPI @ 9.6 GT/s.

Intel Turbo Boost Technology, Intel Hyper-Threading Technology, Intel AVX-512 (1x 512-bit FMA).

48 lanes PCIe 3.0, standard RAS.

### 2<sup>nd</sup> Generation Intel® Xeon® Scalable Processor Family

| Intel Xeon Models     | CPU Frequency | Cores | L3 Cache | Power | UPI          | DDR4      | Memory per socket |
|-----------------------|---------------|-------|----------|-------|--------------|-----------|-------------------|
| Bronze 3204 Processor | 1.9 GHz       | 6     | 8.25 MB  | 85W   | 2 @ 9.6 GT/s | 2133 MT/s | 1 TB              |

#### NOTES:

6-Channel DDR4 @ 2133 MT/s.

2TB max RAM

Support for: Intel® Vector Neural Network Instructions (VNNI) for inference acceleration..

2 and 4 socket capable, 2S - 2UPI, 2S - 3UPI, 4S - 3UPI @ 9.6 GT/s.

Intel AVX-512 (2x 512-bit FMA).

48 lanes PCIe 3.0, standard RAS

### 1<sup>st</sup> Generation Intel® Xeon® Scalable Processor Family

| Intel Xeon Models     | CPU Frequency | Cores | L3 Cache | Power | UPI          | DDR4      | Memory per socket |
|-----------------------|---------------|-------|----------|-------|--------------|-----------|-------------------|
| Bronze 3106 Processor | 1.7 GHz       | 8     | 11.00 MB | 85W   | 2 @ 9.6 GT/s | 2133 MT/s | 768GB             |
| Bronze 3104 Processor | 1.7 GHz       | 6     | 8.25 MB  | 85W   | 2 @ 9.6 GT/s | 2133 MT/s | 768GB             |

#### NOTES:

6-Channel DDR4 @ 2133 MT/s, 768 GB max memory capacity.

2 socket capable, 2S - 2UPI @ 9.6 GT/s.

Intel AVX-512 (1x 512-bit FMA).

48 lanes PCIe 3.0, standard RAS.

## Standard Features

### Chipset

Intel C621 Chipset

**NOTE:** For more information regarding Intel® chipsets, please see the following

URL: <https://www.intel.com/content/www/us/en/products/chipsets/server-chipsets.html>

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### System Management Chipset

HPE iLO 5 ASIC

**NOTE:** Read and learn more in the [iLO QuickSpecs](#).

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### Memory

HPE DDR4 SmartMemory

### Type

Registered (RDIMM), Load Reduced (LRDIMM)

|                                                 |         |                                                                           |
|-------------------------------------------------|---------|---------------------------------------------------------------------------|
| <b>DIMM Slots Available</b>                     | 24      | 12 DIMM slots per processor, 6 channels per processor, 2DIMMs per channel |
| <b>Maximum capacity (LRDIMM)</b>                | 3.0 TB  | 24 x 128 GB LRDIMM @ 2933 MT/s                                            |
| <b>Maximum capacity (RDIMM)</b>                 | 1.54 TB | 24 x 64 GB RDIMM @ 2933 MT/s                                              |
| <b>Maximum capacity (HPE Persistent Memory)</b> | 6.0 TB  | 12 X 512 GB HPE Persistent Memory Kit @ 2666 MT/s                         |
| <b>Maximum capacity (NVDIMM)</b>                | 192 GB  | 12 x 16 GB NVDIMM @ 2666 MT/s                                             |

**NOTE:** NVDIMMs are only supported on 1st generation Intel Xeon Scalable Processors and can only be mixed with RDIMMs.

**NOTE:** HPE Persistent Memory only supported on 2<sup>nd</sup> generation Intel Xeon Scalable Processors (Platinum 8200, Gold 6200, Gold 5200, and 4215 only)

**NOTE:** Maximum memory per socket is dependent on processor selection. 2<sup>nd</sup> generation processors supporting 2 TB or 4.5 TB per CPU are indicated by the “M” and “L” in the processor model names (i.e. 8276M and 8276L). 1<sup>st</sup> generation processors supporting 1.5 TB per CPU are indicated by the “M” in the processor model names (ie 8160M)

**NOTE:** Mixing of RDIMM and LRDIMM memory is not supported.

**NOTE:** For General Server Memory and Persistent Memory Population Rules and Guidelines for Gen10 see details here:

<http://www.hpe.com/docs/memory-population-rules>

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### Memory Protection

#### Advanced ECC

Advanced ECC uses single device data correction to detect and correct single and all multibit error that occurs within a single DRAM chip.

#### Online Spare

Memory online spare mode detects a rank that is degrading and switches operation to the spare rank.

**NOTE:** For more information see our [Memory RAS feature technical whitepaper](#).

## QuickSpecs

## HPE ProLiant DL360 Gen10 Server

### Standard Features

#### Expansion Slots

##### Primary GPU Riser

| Expansion Slots # | Technology | Bus Width | Connector Width | Processor | Slot Form Factor                      |
|-------------------|------------|-----------|-----------------|-----------|---------------------------------------|
| 1                 | PCIe 3.0   | x16       | x16             | CPU1      | Full-height, 3/4 length (up to 9.5in) |
| 2                 | PCIe 3.0   | x8        | x8              | CPU1      | Low Profile                           |

##### Primary SATA M.2 Riser

| Expansion Slots # | Technology | Bus Width | Connector Width | Processor | Slot Form Factor                      |
|-------------------|------------|-----------|-----------------|-----------|---------------------------------------|
| 1                 | PCIe 3.0   | x16       | x16             | CPU 1     | Full-height; 3/4 length (up to 9.5in) |
| 2                 | PCIe 3.0   | x16       | x16             | CPU 1     | Low Profile                           |

##### Primary NVMe Riser

| Expansion Slots # | Technology | Bus Width | Connector Width | Processor | Slot Form Factor                     |
|-------------------|------------|-----------|-----------------|-----------|--------------------------------------|
| 1                 | PCIe 3.0   | x16       | x16             | CPU 1     | Full-height; 3/4 length (up to 9.5") |
| 2                 | PCIe 3.0   | x8        | x8              | CPU 1     | Low Profile                          |

##### Secondary Riser\*

| Expansion Slots # | Technology | Bus Width | Connector Width | Processor | Slot Form Factor                                    |
|-------------------|------------|-----------|-----------------|-----------|-----------------------------------------------------|
| 3                 | PCIe 3.0   | x16       | x16             | CPU 2     | Low Profile or Full-height; 3/4 length (up to 9.5") |

**NOTE:** If secondary full height kit is installed, then primary PCIe Slot #2 cannot be used. Only 2 full height slots are supported.

### Storage Controllers

#### Software RAID

HPE Smart Array S100i SR Gen10 SW RAID

**NOTE:** HPE Smart Array S100i SR Gen10 SW RAID will operate in UEFI mode only. For legacy support an additional controller will be needed, and for CTO orders please also select the Legacy mode settings part, 758959-B22.

**NOTE:** HPE Smart Array S100i SR Gen10 SW RAID is off by default and must be enabled.

**NOTE:** The S100i is a 14-port SATA controller, but only 12 ports are accessible as 2 are leveraged to support the 2 M.2 options on the Primary Riser.

**NOTE:** The S100i supports windows only.

**NOTE:** For Linux users, HPE offers a solution that uses in-distro open-source software to create a two-disk RAID 1 boot volume. For more information visit:

<https://downloads.linux.hpe.com/SDR/project/lsrrb/>

#### Essential RAID Controllers

HPE Smart Array E208i-a SR Gen10 Controller

HPE Smart Array E208i-a SR G10 LH Controller

HPE Smart Array E208i-p SR Gen10 Controller

HPE Smart Array E208e-p SR Gen10 Controller

## Standard Features

### Performance RAID Controllers

HPE Smart Array P408i-a SR Gen10 Controller  
HPE Smart Array P408i-a SR G10 LH Controller  
HPE Smart Array P408i-p SR Gen10 Controller  
HPE Smart Array P408e-p SR Gen10 Controller  
HPE Smart Array P816i-a SR Gen10 Controller  
HPE Smart Array P816i-a SR G10 LH Controller

**NOTE:** If GPGPU is needed then the LH controller (low profile heatsink) should be ordered to allow GPU to fit in the chassis.

**NOTE:** For additional details, please see [HPE Smart Array Gen10 Controllers Data Sheet](#).

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### Internal Storage Devices

#### Optical Drive

Available on 8 SFF and 4 LFF CTO Servers as an option (DVD-ROM or DVD-RW)

#### Hard Drives

None ship standard

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### Maximum Storage

| Storage                    | Capacity | Configuration                                           |
|----------------------------|----------|---------------------------------------------------------|
| Hot Plug SFF SAS HDD       | 26.4 TB  | 8+2+1 x 2.4 TB (with optional UMB + rear drive option)  |
| Hot Plug SFF SATA HDD      | 22 TB    | 8+2+1 x 2.0 TB (with optional UMB + rear drive option)  |
| Hot Plug SFF SAS SSD       | 168.3 TB | 8+2+1 x 15.3 TB (with optional UMB + rear drive option) |
| Hot Plug SFF SATA SSD      | 42.24 TB | 8+2+1 x 3.84 TB (with optional UMB + rear drive option) |
| Hot Plug SFF NVMe PCIe SSD | 153.6 TB | 10 x 15.36 TB NVMe                                      |
| Hot Plug LFF SAS HDD       | 56 TB    | 4 x 14 TB                                               |
| Hot Plug LFF SATA HDD      | 56 TB    | 4 x 14 TB                                               |
| Hot Plug LFF SAS SSD       | 7.68 TB  | 4 x 1.92 TB                                             |
| Hot Plug LFF SATA SSD      | 7.68 TB  | 4 x 1.92 TB                                             |

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### Power Supply

HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit

**NOTE:** Available in 94% efficiency.

HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit

**NOTE:** Available in 94% and 96% efficiency.

**NOTE:** Also available in -48VDC and 227VAC/380VDC power inputs.

HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit

**NOTE:** Available in 94% efficiency.

**NOTE:** 1600W Power supplies only support high line voltage (200 VAC to 240 VAC).

HPE Flexible Slot (Flex Slot) Power Supplies share a common electrical and physical design that allows for hot plug, tool-less installation into HPE ProLiant Gen10 Performance Servers. Flex Slot power supplies are certified for high-efficiency operation and offer multiple power output options, allowing users to "right-size" a power supply for specific server configurations. This flexibility helps to reduce power waste, lower overall energy costs, and avoid "trapped" power capacity in the data center.

All pre-configured servers ship with a standard 6-foot IEC C-13/C-14 jumper cord (A0K02A). This jumper cord is also included with each standard AC power supply option kit. If a different power cord is required, please check the [ProLiant Power Cables](#) web page.

To review the power requirements for your selected system, please use the [HPE Power Advisor Tool](#).

For information on power specifications and technical content visit [HPE Server power supplies](#).

## Standard Features

### Interfaces

|                               |                                                                                                                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Serial                        | 1 port - Optional                                                                                                                                                     |
| Video                         | 1 Front - Display port (optional 8 SFF and 4 LFF only)<br>1 Rear - VGA port (standard on all chassis types)<br><b>NOTE: Both ports are not active simultaneously.</b> |
| Network Ports                 | 4x 1GbE embedded NIC (standard on all chassis types)<br>1 FlexibleLOM slot available on all chassis types (supporting various NICs adapters)                          |
| iLO Remote Mgmt Port          | 1 Gb Dedicated                                                                                                                                                        |
| MicroSD Slot                  | 1 MicroSD slot<br><b>NOTE: The MicroSD slot is not hot-pluggable, server must be powered down before removal.</b>                                                     |
| USB 3.0                       | Up to 5 total: 1 front, 2 rear, 2 internal (standard on all chassis types)<br>+1 optional USB 2.0 front (on 8 SFF and 4 LFF only)                                     |
| SID (Systems Insight Display) | Optional for all chassis types<br><b>NOTE: Will lose iLO Service Port if selecting this option.</b>                                                                   |

## Operating Systems and Virtualization Software

### 2<sup>nd</sup> Generation Intel® Xeon® Scalable Processor Family

**Windows Server 2019:** Essentials, Standard, Datacenter

**Windows Server 2016:** Essentials, Standard, Datacenter

**Windows Server 2012 R2:** Essentials, Standard, Datacenter

**Microsoft Hyper-V Server:** 2012 R2, 2016 & 2019

**VMware vSphere:** 6.0 U3, 6.5 U2 & 6.7 U1

**ClearVM:** 7.6 & 8.0

**Red Hat Enterprise Linux (RHEL):** 7.6 w/ Kbase \*\*

**SUSE Linux Enterprise Server (SLES):** 12 SP4 and 15 SP1 (includes Xen) \*\*

### 1<sup>st</sup> Generation Intel® Xeon® Scalable Processor Family

**Windows Server 2019:** Essentials, Standard & Datacenter

**Windows Server 2016 :** Essentials, Standard & Datacenter

**Windows Server 2012 R2:** Essentials, Standard & Datacenter

**Microsoft Hyper-V Server:** 2012 R2, 2016 & 2019

**VMware vSphere:** 6.0 U3, 6.5 & 6.7

**ClearVM:** 2.0

**Red Hat Enterprise Linux (RHEL):** 6.9 & 7.3\*\*

**SUSE Linux Enterprise Server (SLES):** 11 SP4, 12 SP2 & 15 (includes Xen) \*\*

**\*\*NOTE: 64-bit only; includes KVM**

### ClearOS

**NOTE:** ClearOS allows you to build a fully functional server that is just right for you at no upfront cost. For more information on ClearOS, please visit <http://www.hpe.com/servers/clearos>.

### CentOS

**NOTE:** For more information on Hewlett Packard Enterprise Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server.

<http://www.hpe.com/info/ossupport>



## Standard Features

### Industry Standard Compliance

- ACPI 6.1 Compliant
- PCIe 3.0 Compliant
- WOL Support
- Microsoft® Logo certifications
- PXE Support
- USB 3.0 Compliant
- USB 2.0 Compliant (only on optional Universal Media Bay)
- SMBIOS 3.1
- UEFI 2.6 (Unified Extensible Firmware Interface Forum)
- Redfish API
- IPMI 2.0
- Secure Digital 4.0
- TPM 1.2 and 2.0 support
- Advanced Encryption Standard (AES)
- Triple Data Encryption Standard (3DES)
- SNMP v3
- TLS 1.2
- DMTF Systems Management Architecture for Server Hardware Command Line (SMASH CLP)
- Active Directory v1.0
- ASHRAE A3/A4
- Energy Star

**NOTE:** For additional technical thermal details regarding ambient temperatures, humidity and features support please visit: <http://www.hpe.com/servers/ashrae>

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### Graphics

Integrated video standard

- Video modes up to 1920 x 1200 @ 60 Hz (32 bpp)
  - 16 MB Video Memory
  - HPE iLO 5 on system management memory
  - 32 MB Flash
  - 4 Gbit DDR3 with ECC protection
-

## Standard Features

### HPE Server UEFI/Legacy ROM

Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability and more secured configuration than the legacy ROM while interacting with your server at boot time. HPE ProLiant Gen10 servers have a UEFI Class 2 implementation and support both UEFI Mode (default) and Legacy BIOS Mode.

**NOTE:** The UEFI System Utilities tool is analogous to the HPE ROM-Based Setup Utility (RBSU) of legacy BIOS. For more information, please visit <http://www.hpe.com/servers/uefi>.

UEFI enables numerous new capabilities specific to HPE ProLiant servers such as:

- Secure Boot and Secure Start enable for enhanced security
- Operating system specific functionality
- Support for > 2.2 TB (using GPT) boot drives
- USB 3.0 Stack
- Embedded UEFI Shell
- Mass Configuration Deployment Tool using iLO RESTful API that is Redfish API Conformant
- PXE boot support for IPv6 networks
- Workload Profiles for simple performance optimization
- UEFI Boot Mode only:
  - TPM 2.0 Support
  - NVMe Boot Support
  - Platform Trust Technology (PTT) can be enabled.
  - iSCSI Software Initiator Support.
  - HTTP/HTTPS Boot support as a PXE alternative.
  - Boot support for option cards that only support a UEFI option ROM

**NOTE:** For UEFI Boot Mode, boot environment and OS image installations should be configured properly to support UEFI.

**NOTE:** UEFI FIO Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory for your HPE ProLiant Gen10 Server.

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### Embedded Management

#### HPE Integrated Lights-Out (HPE iLO)

Monitor your servers for ongoing management, service alerting, reporting and remote management with HPE iLO. Learn more at <http://www.hpe.com/info/ilo>.

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### UEFI

Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI). Learn more at <http://www.hpe.com/servers/uefi>.

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### Intelligent Provisioning

Hassle free server and OS provisioning for one or more servers with Intelligent Provisioning. Learn more at <http://www.hpe.com/servers/intelligentprovisioning>.

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### iLO RESTful API

iLO RESTful API is Redfish API conformance and offers simplified server management automation such as configuration and maintenance tasks based on modern industry standards. Learn more at <http://www.hpe.com/info/restfulapi>.

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## Standard Features

### Server Utilities

#### Active Health System

The HPE Active Health System (AHS) is an essential component of the iLO management portfolio that provides continuous, proactive health monitoring of HPE servers. Learn more at <http://www.hpe.com/servers/ahs>.

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#### Active Health System Viewer

Use the Active Health System Viewer, a web-based portal, to easily read AHS logs and speed problem resolution with HPE self-repair recommendations, to learn more visit: <http://www.hpe.com/servers/ahsv>.

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#### Smart Update

Keep your servers up to date with the HPE Smart Update solution by using Smart Update Manager (SUM) to optimize the firmware and driver updates of the Service Pack for ProLiant (SPP). Learn more at <https://www.hpe.com/us/en/servers/smart-update.html>.

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#### iLO Amplifier Pack

Designed for large enterprise and service provider environments with hundreds of HPE servers, the iLO Amplifier Pack is a free, downloadable open virtual application (OVA) that delivers the power to discover, inventory and update Gen8, Gen9 and Gen10 HPE servers at unmatched speed and scale. Use with an iLO Advanced License to unlock full capabilities. Learn more at <http://www.hpe.com/servers/iLOamplifierpack>.

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#### HPE iLO Mobile Application

Enables the ability to access, deploy, and manage your server anytime from anywhere from select smartphones and mobile devices. For additional information please visit: <http://www.hpe.com/info/ilo/mobileapp>.

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#### RESTful Interface Tool

RESTful Interface tool (iLOREST) is a single scripting tool to provision using iLO RESTful API to discover and deploy servers at scale. Learn more at <http://www.hpe.com/info/resttool>.

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#### Scripting Tools

Provision one to many servers using your own scripts to discover and deploy with Scripting Tool (STK) for Windows and Linux or Scripting Tools for Windows PowerShell.

Learn more at <http://www.hpe.com/servers/stk> or <http://www.hpe.com/servers/powershell>.

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#### HPE OneView Standard

HPE OneView Standard can be used for inventory, health monitoring, alerting, and reporting without additional fees. It can monitor multiple HPE server generations. The user interface is similar to the HPE OneView Advanced version, but the software-defined functionality is not available. Learn more at <http://www.hpe.com/info/oneview>.

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#### HPE Systems Insight Manager (HPE SIM)

Ideal for environments already using HPE SIM, it allows you to monitor the health of your HPE ProLiant Servers and HPE Integrity Servers. Also provides you with basic support for non-HPE servers. HPE SIM also integrates with Smart Update Manager to provide quick and seamless firmware updates. Learn more at <http://www.hpe.com/info/hpesim>.

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## Standard Features

### Security

- UEFI Secure Boot and Secure Start support
- Immutable Silicon Root of Trust
- FIPS 140-2 validation
- Common Criteria certification
- Configurable for PCI DSS compliance
- Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser
- Support for Commercial National Security Algorithms (CNSA)
- iLO Security Modes
- Granular control over iLO interfaces
- Smart card (PIV/CAC) and Kerberos based 2-factor Authentication
- Tamper-free updates – components digitally signed and verified
- Secure Recovery – recover critical firmware to known good state on detection of compromised FW
- Ability to rollback firmware
- Secure erase of NAND
- TPM (Trusted Platform Module) 1.2 option
- TPM (Trusted Platform Module) 2.0 option
- Bezel Locking Kit
- Chassis Intrusion detection option

### Warranty

This product is covered by a global limited warranty and supported by HPE Services and a worldwide network of Hewlett Packard Enterprise Authorized Channel Partners resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HPE Pointnext operational services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

**NOTE:** Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have Hewlett Packard Enterprise replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at:

<http://h17007.www1.hpe.com/us/en/enterprise/servers/warranty/>

## Optional Features

### Server Management

#### HPE iLO Advanced

HPE iLO Advanced licenses offer smart remote functionality without compromise, for all HPE ProLiant servers. The license includes the full integrated remote console, virtual keyboard, video, and mouse (KVM), multi-user collaboration, console record and replay, and GUI-based and scripted virtual media and virtual folders. You can also activate the enhanced security and power management functionality. Learn more about HPE iLO Advanced at <http://www.hpe.com/servers/iloadvanced>.

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#### HPE OneView Advanced

HPE OneView brings a new level of automation to infrastructure management by taking a template driven approach to provisioning, updating, and integrating compute, storage, and networking infrastructure. It provides full-featured licenses which can be purchased for managing Gen8, Gen9 and Gen10 servers. To learn more visit <http://www.hpe.com/info/oneview>.

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#### HPE InfoSight for Servers

HPE InfoSight for Servers combines the cloud-based machine learning of InfoSight with the health and performance monitoring of Active Health System (AHS) and iLO to optimize performance and predict and prevent problems. The end result is an intelligent environment that modernizes IT operations and enhances the support experience by predicting and preventing the infrastructure issues that lead to application disruptions, wasted IT staff time and missed business opportunities.

Learn more at <https://www.hpe.com/servers/infosight>

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#### HPE Insight Cluster Management Utility (CMU)

HPE Insight Cluster Management Utility is a HyperScale management framework that includes software for the centralized provisioning, management and monitoring of nodes and infrastructure. Learn more at <http://www.hpe.com/info/cmu>.

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#### Accelerator and GPGPU Information

Hewlett Packard Enterprise supports various accelerators on select HPE ProLiant servers to support different workloads. The accelerators enable seamless integration of GPU computing with HPE ProLiant servers for high-performance computing, large data center graphics, deep learning and virtual desktop deployments. These accelerators deliver all of the standard benefits of GPU computing while enabling maximum reliability and tight integration with system monitoring and management tools such as HPE Insight Cluster Management Utility.

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## Optional Features

### Rack and Power Infrastructure

The story may end with servers, but it starts with the foundation that makes compute go – and business grow. We've reinvented our entire portfolio of rack and power products to make IT infrastructure more secure, more practical, and more efficient. In other words, we've created a stronger, smarter, and simpler infrastructure to help you get the most out of your IT equipment. As an industry leader, Hewlett Packard Enterprise is uniquely positioned to address the key concerns of power, cooling, cable management and system access.

HPE G2 Advanced and Enterprise Racks are perfect for the server room or today's modern data center with enhanced airflow and thermal management, flexible cable management, and a 10 year Warranty to support higher density computing.

HPE G2 PDUs offer reliable power in flexible form factors that operate at temperatures up to 60°, include color-coded outlets and load segments and a low-profile design for optimal access to the rack and support for dense rack environments.

HPE Uninterruptible Power Systems are cost-effective power protection for any type workload. Some UPSs include options for remote management and extended runtime modules so your critical dense data center is covered in power outages.

HPE KVM Solutions include a console and switches designed to work with your server and IT equipment reliably. We've got a cost-effective KVM switch for your first rack and multiple connection IP switches with remote management and security capabilities to keep your data center rack up and running.

Learn more about HPE Racks, KVM, PDUs and UPSs at [\*\*HPE Rack and Power Infrastructure.\*\*](#)

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### One Config Simple (SCE)

SCE is a guided self-service tool to help sales and non-technical people provide customers with initial configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in your existing ordering processes. If you require "custom" rack configuration or configuration for products not available in SCE, please contact Hewlett Packard Enterprise Customer Business Center or an Authorized Partner for assistance.

[\*\*https://h22174.www2.hpe.com/SimplifiedConfig/Welcome#\*\*](https://h22174.www2.hpe.com/SimplifiedConfig/Welcome#)

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## Service and Support

### HPE Pointnext - Service and Support

#### Protect your business beyond warranty with HPE Pointnext Operational Service

HPE Pointnext provides a comprehensive portfolio including Advisory and Transformational, Professional, and Operational Services to help accelerate your digital transformation. From the onset of your transformation journey, Advisory and Transformational Services focus on designing the transformation and creating a solution roadmap. Professional Services specializes in creative configurations with flawless and on-time implementation, and on-budget execution. Finally, operational services provides innovative new approaches like Flexible Capacity and Datacenter Care, to keep your business at peak performance. HPE is ready to bring together all the pieces of the puzzle for you, with an eye on the future, and make the complex simple.

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#### Connect your devices:

Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Achieve up to 77%<sup>1</sup> reduction in down time, near 100%<sup>2</sup> diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7 monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to HPE support.

<sup>1</sup>- IDC

<sup>2</sup>- HPE CSC reports 2014 – 2015

Learn more about getting connected at <http://www.hpe.com/services/getconnected>.

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### Recommended Services

#### HPE Proactive Care\* with 6 hour call-to-repair commitment, three year Support Service

HPE Proactive Care gives customers an enhanced call experience. When your products are connected to HPE, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice. This Service combines three years' proactive reporting and advice with our highest level of hardware support - HPE's 24x7, six hour hardware call-to-repair. HPE is the only leading manufacturer who makes this level of coverage available as a standard service offering for your most valuable servers. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.) running on your HPE servers.

<https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf>

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#### HPE Proactive Care\* with 24x7 coverage, three year Support Service

HPE Proactive Care gives customers an enhanced call experience. When your products are connected to HPE, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice. This Service combines three years proactive reporting and advice with our 24x7 coverage, four hour hardware response time when there is a problem. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.) running on your HPE servers.

<https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf>

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#### HPE Proactive Care\* - Next Business Day service, three year Support Service

HPE Proactive Care gives customers an enhanced call experience. When your products are connected to HPE, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice. This service combines three years of Hardware Support where an HPE authorized representative will arrive at the Customer's site during the onsite coverage window to begin hardware maintenance service the next coverage day after the service request has been logged. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.) running on your HPE servers.

<https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf>

\*HPE Proactive Care and HPE Proactive Care Advanced require that the customer connect their devices to make the most of these services and receive all the deliverables.

## Service and Support

### Other related Services

#### HPE Server Hardware Installation

Provides for the basic hardware installation of HPE branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner.

<https://www.hpe.com/h20195/V2/GetPDF.aspx/5981-9356EN.pdf>

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#### HPE Installation and Startup Service

Provides for the installation of your HPE hardware according to product specifications including options. The HPE service delivery technician will connect the product to a LAN as appropriate and enable remote support to allow for automatic case creation for hardware failures. Installation and start up services also includes the installation of one supported operating system type (Windows® or Linux).

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#### HPE Datacenter Care service

HPE Datacenter Care helps improve IT stability and security, increase the value of IT, and enable agility and innovation. It is a structured framework of repeatable, tested, and globally available services “building blocks.” You can deploy, operate, and evolve your datacenter wherever you are on your IT journey. With HPE Datacenter Care, you benefit from a personalized relationship with HPE via a single point of accountability for HPE and others’ products. For more information, visit

<http://www.hpe.com/services/datacentercare>

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#### HPE GreenLake Flex Capacity

With HPE GreenLake Flex Capacity, you get the speed, scalability, and economics of the public cloud in the privacy of your data center. Gain the advantages of the public cloud—consumption-based payment, rapid scalability without worrying about capacity constraints. Reduce the “heavy lifting” needed to operate a data center. And retain the advantages that IT provides the business (i.e., control, security). Deliver the right user experience, choose the right technology for the business, manage privacy and compliance, and manage the cost of IT. And, you have the option to use the public cloud when needed.

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#### DC for Hyperscale

Datacenter Care for Hyperscale is available for Service Providers and HPC customers who use a scale out approach to computing with a high volume homogenous infrastructure and resilient architecture can take advantage of this environment support tailored to their operating model.

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#### HPE Factory Express for Servers and storage

HPE Factory Express offers configuration, customization, integration and deployment services for HPE servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed.

Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. HPE products supported through Factory Express include a wide array of servers and storage: HPE Integrity, HPE ProLiant, HPE Apollo, HPE ProLiant Server Blades, HPE BladeSystem, HPE 9000 servers as well as the MSAXxxx3PAR suite, XP, rackable tape libraries and configurable network switches.

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#### HPE Service Credits

HPE Service Credits offers flexible services and technical skills to meet your changing IT demands. With a menu of service that is tailored to suit your needs, you get additional resources and specialist skills to help you maintain peak performance of your IT. Offered as annual credits, you can plan your budgets while proactively responding to your dynamic business.

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#### HPE Education Services

Keep your IT staff trained making sure they have the right skills to deliver on your business outcomes. Book on a class today and learn how to get the most from your technology investment. <http://www.hpe.com/ww/learn>

## Service and Support

### HPE Support Center

The HPE Support Center is a personalized online support portal with access to information, tools and experts to support HPE business products. Submit support cases online, chat with Hewlett Packard Enterprise experts, access support resources or collaborate with peers.

Learn more <http://www.hpe.com/support/hpesc>.

The HPE Support Center Mobile App\* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime.

HPE Insight Remote Support and HPE Support Center are available at no additional cost with a HPE warranty, HPE Support Service or HPE contractual support agreement.

**\*HPE Support Center Mobile App is subject to local availability.**

For more information: <http://www.hpe.com/services>.

**NOTE:** HPE ProLiant DL360 Gen10 Server is covered under the HPE Service Contract applied to the HPE ProLiant Server. No separate HPE support services need to be purchased.

Warranty and Support Services will extend to include HPE options configured with your server or storage device. The price of support service is not impacted by configuration details. HPE sourced options that are compatible with your product will be covered under your server support at the same level of coverage allowing you to upgrade freely. Installation for HPE options is available as needed. To keep support costs low for everyone, some high value options will require additional support. Additional support is only required on select high value workload accelerators, fibre switches, InfiniBand and UPS batteries over 12KVA. See the specific high value options that require additional support [here](#).

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### Parts and Materials

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.

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## Pre-configured Models

1. Pre- Configured models ship with the configurations below. Options can be selected from the Core or Additional options section of this QuickSpecs.
2. Hewlett Packard Enterprise does not allow factory integration of options into pre-configured models. Any additional options purchased will be shipped separately.
3. If you desire a custom configuration please see "Configuration Information - Factory Integrated Models" section of this QuickSpecs.

| Powered by 2 <sup>nd</sup> Generation Intel Xeon Processors |                                                                                     |                                                                                     |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                                             | High Performance Models                                                             |                                                                                     |
| SKU Number                                                  | P02722-B21                                                                          | P02723-B21                                                                          |
| Model Name                                                  | HPE ProLiant DL360 Gen10 5220 2.2GHz 18-core 2P 64GB-R P408i-a 8SFF 800W RPS Server | HPE ProLiant DL360 Gen10 6248 2.5GHz 20-core 2P 64GB-R P408i-a 8SFF 800W RPS Server |
| Chassis                                                     | 8 SFF                                                                               | 8 SFF                                                                               |
| Processor                                                   | 5220 (18-Core, 2.2 GHz, 125W)                                                       | 6248 (20-Core, 2.5 GHz, 150W)                                                       |
| Number of Processors                                        | Two processors<br>With standard heatsink                                            | Two processors<br>With High Performance heatsink                                    |
| Memory                                                      | 64 GB RDIMM 2R 2933 MT/s<br>(2x 32 GB)                                              | 64 GB RDIMM 2R 2933 MT/s<br>(2x 32 GB)                                              |
| Network Controller                                          | Embedded 4-port 1GbE +<br>10/25 GbE 2P 640FLR-SFP28                                 | Embedded 4-port 1GbE +<br>10/25 GbE 2P 640FLR-SFP28                                 |
| Storage Controller                                          | P408i-a/2 GB                                                                        | P408i-a/2 GB                                                                        |
| Hard Drive                                                  | None included                                                                       | None included                                                                       |
| Optical Drive                                               | Not included (Optical Drive options available)                                      | Not included (Optical Drive options available)                                      |
| PCIe Slots                                                  | 3 PCIe: 1 x16 FH / 1 x8 LP + 1 x 16 FH                                              | 3 PCIe: 1 x16 FH / 1 x8 LP + 1 x 16 FH                                              |
| Power Supply                                                | 2x 800W                                                                             | 2x 800W                                                                             |
| Fans                                                        | 7 – High Performance                                                                | 7 - High Performance                                                                |
| Management                                                  | HPE iLO Advanced                                                                    | HPE iLO Advanced                                                                    |
| Rail Kit                                                    | SFF Easy Install w/o CMA                                                            |                                                                                     |
| Energy Star                                                 | Energy Star 2.1                                                                     |                                                                                     |
| Form Factor                                                 | 1U Rack                                                                             |                                                                                     |
| Warranty                                                    | 3-year parts, 3-year labor, 3-year onsite support with next business day response.  |                                                                                     |

**NOTE:** UEFI is the standard default for all Pre-configured models.

## Pre-configured Models

| Powered by 1 <sup>st</sup> Generation Intel Xeon Processors |                                                                                                |                                                                                                     |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
|                                                             | Performance Model                                                                              | High Performance Models                                                                             |
| SKU Number                                                  | 867963-B21                                                                                     | 867964-B21                                                                                          |
| Model Name                                                  | HPE ProLiant DL360 Gen10 5118 2.3GHz 12C 105W 2P 32G-2R P408i-a 8SFF 2x800W Performance Server | HPE ProLiant DL360 Gen10 6130 2.1GHz 16C 125W 2P 64G-2R P408i-a Premium 10NVMe 2x800W High Perf Svr |
| Chassis                                                     | 8 SFF                                                                                          | Premium 10 SFF NVMe                                                                                 |
| Processor                                                   | 5118 (12-Core, 2.3 GHz, 105W)                                                                  | 6130 (16-Core, 2.1 GHz, 125W)                                                                       |
| Number of Processors                                        | Two processors<br>With standard heatsink                                                       | Two processors<br>With High Performance heatsink                                                    |
| Memory                                                      | 32 GB RDIMM 2R 2666 MT/s (2x 16 GB)<br><b>NOTE: Runs at 2400 MT/s</b>                          | 64 GB RDIMM 2R 2666 MT/s (2x 32 GB)                                                                 |
| Network Controller                                          | Embedded 4-port 1GbE + 10/25 GbE 2P 640FLR-SFP28                                               | Embedded 4-port 1GbE + 10/25 GbE 2P 640FLR-SFP28                                                    |
| Storage Controller                                          | P408i-a/2GB                                                                                    | P408i-a/2 GB                                                                                        |
| Hard Drive                                                  | None included                                                                                  | None included                                                                                       |
| Optical Drive                                               | Optional (requires both Drive and UMB)                                                         | Optional (external USB 701498-B21 only)                                                             |
| PCIe Slots                                                  | 3 PCIe: 1 x16 FH / 1 x8 LP + 1 x16 FH                                                          | 2 PCIe: 1 x16 FH / 1 x8 LP                                                                          |
| Power Supply                                                | 2x 800W                                                                                        | 2x 800W                                                                                             |
| Fans                                                        | 7 - Standard                                                                                   | 7 – High Performance                                                                                |
| Management                                                  | HPE iLO Advanced                                                                               | HPE iLO Advanced                                                                                    |
| Rail Kit                                                    | SFF Easy Install w/o CMA                                                                       |                                                                                                     |
| Energy Star                                                 | Energy Star 2.1                                                                                |                                                                                                     |
| Form Factor                                                 | 1U Rack                                                                                        |                                                                                                     |
| Warranty                                                    | 3-year parts, 3-year labor, 3-year onsite support with next business day response.             |                                                                                                     |

**NOTE:** UEFI is the standard default for all Pre-configured models.

## Pre-configured Models

| Powered by 1 <sup>st</sup> Generation Intel Xeon Processors |                                                                                           |                                                                                            |                                                                                                  |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
|                                                             | Low Model                                                                                 | Entry Model                                                                                | Base Model                                                                                       |
| <b>SKU Number</b>                                           | P01880-B21                                                                                | 867961-B21                                                                                 | 867962-B21                                                                                       |
| <b>Model Name</b>                                           | HPE ProLiant DL360 Gen10<br>3104 1.7GHz 6-core 1P 8GB-R<br>S100i 4LFF 500W PS Base Server | HPE ProLiant DL360 Gen10<br>3106 1.7GHz 8C 85W 1P 16G-2R<br>S100i 8SFF 1x500W Entry Server | HPE ProLiant DL360 Gen10<br>4114 2.2GHz 10C 85W 1P 16G-<br>2R P408i-a 8SFF 1x500W Base<br>Server |
| <b>Chassis</b>                                              | 4 LFF                                                                                     | 8 SFF                                                                                      | 8 SFF                                                                                            |
| <b>Processor</b>                                            | 3104 (6-Core, 1.7 GHz, 85W)                                                               | 3106 (8-Core, 1.7 GHz, 85W)                                                                | 4114 (10-Core, 2.2 GHz, 85W)                                                                     |
| <b>Number of Processors</b>                                 | One processor<br>With standard heatsink                                                   | One processor<br>With standard heatsink                                                    | One processor<br>With standard heatsink                                                          |
| <b>Memory</b>                                               | 8 GB RDIMM 2R 2666 MT/s<br>(1x 8 GB)<br><b>NOTE: Runs at 2133 MT/s</b>                    | 16 GB RDIMM 2R 2666 MT/s<br>(1x 16 GB)<br><b>NOTE: Runs at 2133 MT/s</b>                   | 16 GB RDIMM 2R 2666 MT/s<br>(1x 16 GB)<br><b>NOTE: Runs at 2400 MT/s</b>                         |
| <b>Network Controller</b>                                   | Embedded 4-port 1GbE                                                                      | Embedded 4-port 1GbE                                                                       | Embedded 4-port 1GbE                                                                             |
| <b>Storage Controller</b>                                   | Embedded 14-port S100i<br><b>NOTE: SATA only.</b>                                         | Embedded 14-port S100i<br><b>NOTE: SATA only.</b>                                          | P408i-a/2GB                                                                                      |
| <b>Hard Drive</b>                                           | None included                                                                             | None included                                                                              | None included                                                                                    |
| <b>Optical Drive</b>                                        | Optional                                                                                  | Optional (requires both Drive and UMB)                                                     | Optional (requires both Drive and UMB)                                                           |
| <b>PCIe Slots</b>                                           | 2 PCIe: 1 x16 FH / 1 x8 LP                                                                | 2 PCIe: 1 x16 FH / 1 x8 LP                                                                 | 2 PCIe: 1 x16 FH / 1 x8 LP                                                                       |
| <b>Power Supply</b>                                         | 1x 500W                                                                                   | 1x 500W                                                                                    | 1x 500W                                                                                          |
| <b>Fans</b>                                                 | 5 - Standard                                                                              | 5 - Standard                                                                               | 5 - Standard                                                                                     |
| <b>Management</b>                                           | HPE iLO 5                                                                                 | HPE iLO 5                                                                                  | HPE iLO 5                                                                                        |
| <b>Rail Kit</b>                                             | LFF Easy Install w/o CMA                                                                  | SFF Easy Install w/o CMA                                                                   | SFF Easy Install w/o CMA                                                                         |
| <b>Energy Star</b>                                          | Energy Star 2.1                                                                           |                                                                                            |                                                                                                  |
| <b>Form Factor</b>                                          | 1U Rack                                                                                   |                                                                                            |                                                                                                  |

**NOTE:** UEFI is the standard default for all Pre-configured models.

## QuickSpecs

## HPE ProLiant DL360 Gen10 Server

### China Specific

| Powered by 2 <sup>nd</sup> Generation Intel Xeon Processors |                                                                                       |                                                                                         |                                                                                          |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| SKU Number                                                  | P03629-B21                                                                            | P03630-B21                                                                              | P03632-B21                                                                               |
| Model Name                                                  | HPE ProLiant DL360 Gen10<br>3204 1.9GHz 6-core 1P 16GB-R<br>S100i 8SFF 500W PS Server | HPE ProLiant DL360 Gen10<br>4208 2.1GHz 8-core 1P 16GB-R<br>P408i-a 8SFF 500W PS Server | HPE ProLiant DL360 Gen10<br>4214 2.2GHz 12-core 1P 16GB-R<br>P408i-a 8SFF 500W PS Server |
| Chassis                                                     | 8 SFF                                                                                 | 8 SFF                                                                                   | 8 SFF                                                                                    |
| Processor                                                   | 3204 (6 core, 1.9 GHz, 85W)                                                           | 4208 (8 core, 2.1 GHz, 85W)                                                             | 4214 (12 cores, 2.2GHz, 85W)                                                             |
| Number of Processors                                        | One processor<br>With standard heatsink                                               | One processor<br>With standard heatsink                                                 | One processor<br>With standard heatsink                                                  |
| Memory                                                      | 16 GB RDIMM 2R 2933 MT/s<br>(1x 16 GB)<br><b>NOTE: Runs at 2133 MT/s</b>              | 16 GB RDIMM 2R 2933 MT/s<br>(1x 16 GB)<br><b>NOTE: Runs at 2400 MT/s</b>                | 16GB RDIMM 2R 2933 MT/s<br>(1x16GB)<br><b>NOTE: Runs at 2400 MT/s</b>                    |
| Network Controller                                          | HPE 1Gb Ethernet 4-Port 331i<br>Adapter                                               | HPE 1Gb Ethernet 4-Port 331i<br>Adapter                                                 | HPE 1Gb Ethernet 4-Port 331i<br>Adapter                                                  |
| Storage Controller                                          | Embedded 14-port S100i<br><b>NOTE: SATA only.</b>                                     | P408i-a/2GB with Smart Storage<br>Battery                                               | P408i-a/2GB with Smart Storage<br>Battery                                                |
| Hard Drive                                                  | None included                                                                         | None included                                                                           | None included                                                                            |
| Optical Drive                                               | Not included (Optical Drive<br>options available)                                     | Not included (Optical Drive<br>options available)                                       | Not included (Optical Drive<br>options available)                                        |
| PCIe Slots                                                  | 2 PCIe: 1 x16 FH, 1 x8 LP                                                             | 2 PCIe: 1 x16 FH, 1 x8 LP                                                               | 2 PCIe: 1 x16 FH, 1 x8 LP                                                                |
| Power Supply                                                | 1x 500W                                                                               | 1x 500W                                                                                 | 1x 500W                                                                                  |
| Fans                                                        | 5 - Standard                                                                          | 5 - Standard                                                                            | 5 - Standard                                                                             |
| Management                                                  | HPE iLO 5                                                                             | HPE iLO 5                                                                               | HPE iLO 5                                                                                |
| Rail Kit                                                    | SFF Easy Install w/o CMA                                                              | SFF Easy Install w/o CMA                                                                | SFF Easy Install w/o CMA                                                                 |
| Energy Star                                                 | Energy Star 2.1                                                                       |                                                                                         |                                                                                          |
| Form Factor                                                 | 1U Rack                                                                               |                                                                                         |                                                                                          |
| Warranty                                                    | 3-year parts, 3-year labor, 3-year onsite support with next business day response.    |                                                                                         |                                                                                          |

**NOTE:** UEFI is the standard default for all Pre-configured models.



## Pre-configured Models

| Powered by 2 <sup>nd</sup> Generation Intel Xeon Processors |                                                                                       |                                                                                          |                                                                                          |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| SKU Number                                                  | P03635-B21                                                                            | P03633-B21                                                                               | P03634-B21                                                                               |
| Model Name                                                  | HPE ProLiant DL360 Gen10<br>4208 2.1GHz 8-core 1P 16GB-R<br>S100i 4LFF 500W PS Server | HPE ProLiant DL360 Gen10<br>5218 2.3GHz 16-core 1P 32GB-R<br>P408i-a 8SFF 800W PS Server | HPE ProLiant DL360 Gen10<br>6230 2.1GHz 20-core 1P 32GB-R<br>P408i-a 8SFF 800W PS Server |
| Chassis                                                     | 4 LFF                                                                                 | 8 SFF                                                                                    | 8 SFF                                                                                    |
| Processor                                                   | 4208 (8 core, 2.1 GHz, 85W)                                                           | 5218 (16 cores, 2.3 GHz, 125W)                                                           | 6230 (20 cores, 2.1 GHz, 125W)                                                           |
| Number of Processors                                        | One processor<br>With standard heatsink                                               | One processor<br>With standard heatsink                                                  | One processor<br>With standard heatsink                                                  |
| Memory                                                      | 16 GB RDIMM 2R 2933 MT/s<br>(1x 16 GB)<br><b>NOTE: Runs at 2400 MT/s</b>              | 32GB RDIMM 2R 2933 MT/s<br>(1x32GB)<br><b>NOTE: Runs at 2666 MT/s</b>                    | 32GB RDIMM 2R 2933 MT/s<br>(1x32GB)                                                      |
| Network Controller                                          | HPE 1Gb Ethernet 4-Port 331i<br>Adapter                                               | HPE 1Gb Ethernet 4-Port 331i<br>Adapter                                                  | HPE 1Gb Ethernet 4-Port 331i<br>Adapter                                                  |
| Storage Controller                                          | Embedded 14-port S100i<br><b>NOTE: SATA only.</b>                                     | P408i-a/2GB with Smart Storage<br>Battery                                                | P408i-a/2GB with Smart Storage<br>Battery                                                |
| Hard Drive                                                  | None included                                                                         | None included                                                                            | None included                                                                            |
| Optical Drive                                               | Not included (Optical Drive<br>options available)                                     | Not included (Optical Drive<br>options available)                                        | Not included (Optical Drive<br>options available)                                        |
| PCIe Slots                                                  | 2 PCIe: 1 x16 FH, 1 x8 LP                                                             | 2 PCIe: 1 x16 FH, 1 x8 LP                                                                | 2 PCIe: 1 x16 FH, 1 x8 LP                                                                |
| Power Supply                                                | 1x 500W                                                                               | 1x 800W                                                                                  | 1x 800W                                                                                  |
| Fans                                                        | 5 - Standard                                                                          | 5 - Standard                                                                             | 5 - Standard                                                                             |
| Management                                                  | HPE iLO 5                                                                             | HPE iLO 5                                                                                | HPE iLO 5                                                                                |
| Rail Kit                                                    | LFF Easy Install w/o CMA                                                              | SFF Easy Install w/o CMA                                                                 | SFF Easy Install w/o CMA                                                                 |
| Energy Star                                                 | Energy Star 2.1                                                                       |                                                                                          |                                                                                          |
| Form Factor                                                 | 1U Rack                                                                               |                                                                                          |                                                                                          |
| Warranty                                                    | 3-year parts, 3-year labor, 3-year onsite support with next business day response.    |                                                                                          |                                                                                          |

**NOTE:** UEFI is the standard default for all Pre-configured models.

## Pre-configured Models

| Powered by 2 <sup>nd</sup> Generation Intel Xeon Processors |                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SKU Number                                                  | P03631-B21                                                                                                                                                                                                                                                                                                                              |
| Model Name                                                  | HPE ProLiant DL360 Gen10 4210 2.2GHz 10-core 1P 16GB-R P408i-a 8SFF 500W PS Server                                                                                                                                                                                                                                                      |
| Chassis                                                     | 8 SFF                                                                                                                                                                                                                                                                                                                                   |
| Processor                                                   | 4210 (10 core, 2.2 GHz, 85W)                                                                                                                                                                                                                                                                                                            |
| Number of Processors                                        | One processor<br>With standard heatsink                                                                                                                                                                                                                                                                                                 |
| Memory                                                      | 16 GB RDIMM 2R 2933 MT/s (1x 16 GB)<br><b>NOTE: Runs at 2400 MT/s</b>                                                                                                                                                                                                                                                                   |
| Network Controller                                          | HPE 1Gb Ethernet 4-Port 331i Adapter                                                                                                                                                                                                                                                                                                    |
| Storage Controller                                          | P408i-a/2GB with Smart Storage Battery                                                                                                                                                                                                                                                                                                  |
| Hard Drive                                                  | None included                                                                                                                                                                                                                                                                                                                           |
| Optical Drive                                               | Not included (Optical Drive options available)                                                                                                                                                                                                                                                                                          |
| PCIe Slots                                                  | 2 PCIe: 1 x16 FH, 1 x8 LP                                                                                                                                                                                                                                                                                                               |
| Power Supply                                                | 1x 500W                                                                                                                                                                                                                                                                                                                                 |
| Fans                                                        | 5 - Standard                                                                                                                                                                                                                                                                                                                            |
| Management                                                  | HPE iLO 5                                                                                                                                                                                                                                                                                                                               |
| Rail Kit                                                    | SFF Easy Install w/o CMA                                                                                                                                                                                                                                                                                                                |
| Energy Star                                                 | Energy Star 2.1                                                                                                                                                                                                                                                                                                                         |
| Form Factor                                                 | 1U Rack                                                                                                                                                                                                                                                                                                                                 |
| Operating System                                            | ClearOS/VM Installer (USB)<br><b>NOTE: ClearOS, an easy to use OS with an application marketplace, allows you to build a fully functional server that is just right for you at no upfront cost. To learn more on what you can do, please visit <a href="http://www.hpe.com/servers/clearos">http://www.hpe.com/servers/clearos</a>.</b> |
| Warranty                                                    | 3-year parts, 3-year labor, 3-year onsite support with next business day response.                                                                                                                                                                                                                                                      |

**NOTE:** UEFI is the standard default for all Pre-configured models.

## Pre-configured Models

| Powered by 1 <sup>st</sup> Generation Intel Xeon Processors |                                                                                                        |                                                                                                         |                                                                                                          |
|-------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| SKU Number                                                  | P06453-B21                                                                                             | P06454-B21                                                                                              | P06455-B21                                                                                               |
| Model Name                                                  | HPE ProLiant DL360 Gen10<br>4110 2.1GHz 8-core 1P 16GB-R<br>P408i-a 8SFF 500W PS<br>Performance Server | HPE ProLiant DL360 Gen10<br>5118 2.3GHz 12-core 1P 32GB-R<br>P408ia 8SFF 800W RPS<br>Performance Server | HPE ProLiant DL360 Gen10<br>6130 2.1GHz 16-core 1P 64GB-R<br>P408i-a 8SFF 800W RPS<br>Performance Server |
| Chassis                                                     | 8 SFF                                                                                                  | 8 SFF                                                                                                   | 8 SFF                                                                                                    |
| Processor                                                   | 4110 (8 core, 2.1 GHz, 85W)                                                                            | 5118 (12 core, 2.3 GHz, 105W)                                                                           | 6130 (16 core, 2.1 GHz, 125W)                                                                            |
| Number of Processors                                        | One processor<br>With standard heatsink                                                                | One processor<br>With standard heatsink                                                                 | One processor<br>With standard heatsink                                                                  |
| Memory                                                      | 16 GB RDIMM 2R 2666 MT/s<br>(1x 16 GB)<br><b>NOTE: Runs at 2400 MT/s</b>                               | 32 GB RDIMM 2R 2666 MT/s<br>(1x 32 GB)<br><b>NOTE: Runs at 2400 MT/s</b>                                | 64 GB RDIMM 2R 2666 MT/s<br>(2x 32 GB)<br><b>NOTE: Runs at 2666 MT/s</b>                                 |
| Network Controller                                          | HPE 1Gb Ethernet 4-Port 331i<br>Adapter                                                                | HPE 1Gb Ethernet 4-Port 331i<br>Adapter                                                                 | HPE 1Gb Ethernet 4-Port 331i<br>Adapter                                                                  |
| Storage Controller                                          | P408i-a/2GB with Smart Storage<br>Battery                                                              | P408i-a/2GB with Smart Storage<br>Battery                                                               | P408i-a/2GB with Smart Storage<br>Battery                                                                |
| Hard Drive                                                  | None included                                                                                          | None included                                                                                           | None included                                                                                            |
| Optical Drive                                               | Not included (Optical Drive<br>options available)                                                      | Not included (Optical Drive<br>options available)                                                       | Not included (Optical Drive<br>options available)                                                        |
| PCIe Slots                                                  | 2 PCIe: 1 x16 FH, 1 x8 LP                                                                              | 2 PCIe: 1 x16 FH, 1 x8 LP                                                                               | 2 PCIe: 1 x16 FH, 1 x8 LP                                                                                |
| Power Supply                                                | 1x 500W                                                                                                | 2x 800W                                                                                                 | 2x 800W                                                                                                  |
| Fans                                                        | 5 - Standard                                                                                           | 5 - Standard                                                                                            | 5 - Standard                                                                                             |
| Management                                                  | HPE iLO 5                                                                                              | HPE iLO 5                                                                                               | HPE iLO 5                                                                                                |
| Rail Kit                                                    | SFF Easy Install w/o CMA                                                                               |                                                                                                         |                                                                                                          |
| Energy Star                                                 | Energy Star 2.1                                                                                        |                                                                                                         |                                                                                                          |
| Form Factor                                                 | 1U Rack                                                                                                |                                                                                                         |                                                                                                          |
| Warranty                                                    | 3-year parts, 3-year labor, 3-year onsite support with next business day response.                     |                                                                                                         |                                                                                                          |

**NOTE:** UEFI is the standard default for all Pre-configured models.

## Pre-configured Models

| Powered by 1 <sup>st</sup> Generation Intel Xeon Processors |                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SKU Number                                                  | P05520-B21                                                                                                                                                                                                                                                                                                                              |
| Model Name                                                  | HPE ProLiant DL360 Gen10 4110 2.1GHz 8-core 1P 16GB-R P408i-a 8SFF 500W RPS Solution Server                                                                                                                                                                                                                                             |
| Chassis                                                     | 8 SFF                                                                                                                                                                                                                                                                                                                                   |
| Processor                                                   | 4110 (8 core, 2.1 GHz, 85W)                                                                                                                                                                                                                                                                                                             |
| Number of Processors                                        | One processor<br>With standard heatsink                                                                                                                                                                                                                                                                                                 |
| Memory                                                      | 16 GB RDIMM 2R 2666 MT/s (1x 16 GB)<br><b>NOTE: Runs at 2400 MT/s.</b>                                                                                                                                                                                                                                                                  |
| Network Controller                                          | HPE 1Gb Ethernet 4-Port 331i Adapter                                                                                                                                                                                                                                                                                                    |
| Storage Controller                                          | P408i-a/2GB with Smart Storage Battery                                                                                                                                                                                                                                                                                                  |
| Hard Drive                                                  | None included                                                                                                                                                                                                                                                                                                                           |
| Optical Drive                                               | Not included (Optical Drive options available)                                                                                                                                                                                                                                                                                          |
| PCIe Slots                                                  | 2 PCIe: 1 x16 FH, 1 x8 LP                                                                                                                                                                                                                                                                                                               |
| Power Supply                                                | 2x 500W                                                                                                                                                                                                                                                                                                                                 |
| Fans                                                        | 5 - Standard                                                                                                                                                                                                                                                                                                                            |
| Management                                                  | HPE iLO 5                                                                                                                                                                                                                                                                                                                               |
| Rail Kit                                                    | SFF Easy Install w/o CMA                                                                                                                                                                                                                                                                                                                |
| Energy Star                                                 | Energy Star 2.1                                                                                                                                                                                                                                                                                                                         |
| Form Factor                                                 | 1U Rack                                                                                                                                                                                                                                                                                                                                 |
| Operating System                                            | ClearOS/VM Installer (USB)<br><b>NOTE: ClearOS, an easy to use OS with an application marketplace, allows you to build a fully functional server that is just right for you at no upfront cost. To learn more on what you can do, please visit <a href="http://www.hpe.com/servers/clearos">http://www.hpe.com/servers/clearos</a>.</b> |
| Warranty                                                    | 3-year parts, 3-year labor, 3-year onsite support with next business day response.                                                                                                                                                                                                                                                      |

**NOTE:** UEFI is the standard default for all Pre-configured models.

## Configuration Information - Factory Integrated Models

This section lists some of the steps required to configure a Factory Integrated Model.

To ensure valid configurations are ordered, Hewlett Packard Enterprise recommends the use of an HPE approved configurator. Contact your local sales representative for information on configurable product offerings and requirements.

1. Factory Integrated Models must start with a CTO Server.
2. FIO indicates that this option is only available as a factory installable option.
3. All Factory Integrated Models will be populated with sufficient hard drive blanks based on number of drives ordered with server.
4. Some options may not be integrated at the factory. Contact your local sales representative for additional information

### Step 1: Base Configuration (choose one of the following configurable models)

| CTO Server            | 4 LFF                                                                                                                      | 8 SFF                                                                                 | Premium 10 NVMe                                                               |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|
| SKU Number            | 867958-B21                                                                                                                 | 867959-B21                                                                            | 867960-B21                                                                    |
| TAA SKU*              | 875965-B21                                                                                                                 | 875966-B21                                                                            | 875967-B21                                                                    |
| Processor             | Not included as standard                                                                                                   |                                                                                       |                                                                               |
| DIMM Slots            | 24-DIMM slots (12 can be used for NVDIMMs or 12 can be used for HPE Persistent Memory)                                     |                                                                                       |                                                                               |
| Storage Controller    | Embedded SW RAID (S100i) with 14 SATA ports<br>Optional: Choice of HPE modular Smart Array and PCIe plug-in controller     |                                                                                       |                                                                               |
| PCIe                  | 2 PCIe slots (1 x16 FH / 1 x8 LP)<br>Optional: 1 x16 FH or LP                                                              | 2 PCIe slots (1 x16 FH / 1 x8 LP)<br>Optional: 1 x16 FH or LP                         | 2 PCIe slots (1 x16 FH / 1 x8 LP)                                             |
| Drive Cage - included | 4 LFF - SAS/SATA                                                                                                           | 8 SFF - SAS/SATA<br>Optional: up to 2 NVMe or 2 Dual uFF (4x M.2 cartridges)          | 10 NVMe - SAS/SATA/NVME<br>Optional: 1 Dual uFF (2x M.2 cartridges)           |
| Network Controller    | HPE 1Gb Ethernet 4-Port 331i Adapter plus optional HPE FlexibleLOM or stand up card                                        |                                                                                       |                                                                               |
| Fans                  | 1 CPU – 5 Standard Fans<br>2 CPU – 7 Standard Fans<br>Optional: High Performance Fans                                      | 1 CPU – 5 Standard Fans<br>2 CPU – 7 Standard Fans<br>Optional: High Performance Fans | 2 CPU – 7 High Performance Fans                                               |
| Management            | HPE iLO with Intelligent Provisioning (standard)<br>Optional: iLO Advance and OneView                                      |                                                                                       |                                                                               |
| USB                   | Front: 1 USB 3.0 + iLO service port<br>Rear: 2 USB 3.0<br>Internal: 2 USB 3.0<br>Optional: 1 USB 2.0 (lose iLO serv. Port) |                                                                                       | Front: 1 USB 3.0 + iLO service port<br>Rear: 2 USB 3.0<br>Internal: 2 USB 3.0 |

**NOTE:** HPE offers multiple Trade Agreement Act (TAA) compliant configurations to meet the needs of US Federal Government customers. These products are either manufactured or substantially transformed in a designated country. **NOTE:** HPE Persistent Memory is only supported on 2<sup>nd</sup> generation Intel Xeon Scalable processors

## Configuration Information - Factory Integrated Models

### Step 2a: Choose Processor Options

Please select one –L21 processor required below.

For second processor, please select the same processor model with –B21 from Core Options – HPE Processors section.

For example: first processor, select P02679-L21 then for second processor, select P02679-B21.

**NOTE:** Mixing of 2 different processor models is not supported.

**NOTE:** For first processor, -L21 will include 5 fans, For second processor, -B21 will add 2 additional fans (for 4 LFF and 8 SFF CTO Server). 10 NVMe CTO Server will always get 7 High Performance fans regardless of 1 or 2 processors.

**NOTE:** Processors with 130W or higher will ship with the High Performance heat sink plus SKUs 8256, 5222, 8156, 6128, 5122 as noted below. All other processors will ship with the Standard heat sink.

**NOTE:** When 2<sup>nd</sup> Generation Intel Xeon Scalable Processor is selected, then only DDR4-2933 Memory Kit can be selected; When 1<sup>st</sup> Generation Intel Xeon Scalable Processor is selected, then only DDR4-2666 Memory Kit can be selected

### Processor Option Kits

### Required SKU

#### 2<sup>nd</sup> Generation Intel Xeon- Platinum

HPE DL360 Gen10 Intel Xeon-Platinum 8280 (2.7GHz/28-core/205W) FIO Processor Kit P02679-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8280L (2.7GHz/28-core/205W) FIO Processor Kit P02718-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8280M (2.7GHz/28-core/205W) FIO Processor Kit P02703-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8276 (2.2GHz/28-core/165W) FIO Processor Kit P02676-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8276L (2.2GHz/28-core/165W) FIO Processor Kit P02715-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8276M (2.2GHz/28-core/165W) FIO Processor Kit P02700-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8270 (2.7GHz/26-core/205W) FIO Processor Kit P02673-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8268 (2.9GHz/24-core/205W) FIO Processor Kit P02670-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8260 (2.4GHz/24-core/165W) FIO Processor Kit P02661-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8260L (2.4GHz/24-core/165W) FIO Processor Kit P02712-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8260M (2.4GHz/24-core/165W) FIO Processor Kit P02694-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8260Y (2.4GHz/24-20-16-core/165W) FIO Processor Kit P02682-L21

**NOTE:** 24/20/16 cores would result in 2.4/2.5/2.7 GHz operating points

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8256 (3.8GHz/4-core/105W) FIO Processor Kit P02655-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8253 (2.2GHz/16-core/125W) FIO Processor Kit P02652-L21

#### 1<sup>st</sup> Generation Intel Xeon-Platinum

HPE DL360 Gen10 Intel Xeon-Platinum 8180M (2.5GHz/28-core/205W) FIO Processor Kit 876099-L21

**NOTE:** Ships with High Performance Heatsink.

## Configuration Information - Factory Integrated Models

|                                                                                                                          |            |
|--------------------------------------------------------------------------------------------------------------------------|------------|
| HPE DL360 Gen10 Intel Xeon-Platinum 8180 (2.5GHz/28-core/205W) FIO Processor Kit                                         | 867988-L21 |
| <b>NOTE:</b> Ships with High Performance Heatsink.                                                                       |            |
| HPE DL360 Gen10 Intel Xeon-Platinum 8176 (2.1GHz/28-core/165W) FIO Processor Kit                                         | 870982-L21 |
| <b>NOTE:</b> Ships with High Performance Heatsink.                                                                       |            |
| HPE DL360 Gen10 Intel Xeon-Platinum 8170 (2.1GHz/26-core/165W) FIO Processor Kit                                         | 870980-L21 |
| <b>NOTE:</b> Ships with High Performance Heatsink.                                                                       |            |
| HPE DL360 Gen10 Intel Xeon-Platinum 8168 (2.7GHz/24-core/205W) FIO Processor Kit                                         | 870978-L21 |
| <b>NOTE:</b> Ships with High Performance Heatsink.                                                                       |            |
| HPE DL360 Gen10 Intel Xeon-Platinum 8165 (2.3GHz/24-core/205W) FIO Processor Kit                                         | 879121-L21 |
| <b>NOTE:</b> Ships with Performance Heatsink.                                                                            |            |
| <b>NOTE:</b> Requires the High Performance Fan Kit (871244-B21)                                                          |            |
| <b>NOTE:</b> Supports "Core boosting" Learn more <a href="http://www.hpe.com/info/ist">http://www.hpe.com/info/ist</a> . |            |
| <b>NOTE:</b> To enable this feature an iLO Advanced, or iLO Advanced Premium Security edition License are required.      |            |
| HPE DL360 Gen10 Intel Xeon-Platinum 8164 (2.0GHz/26-core/150W) FIO Processor Kit                                         | 870976-L21 |
| <b>NOTE:</b> Ships with High Performance Heatsink.                                                                       |            |
| HPE DL360 Gen10 Intel Xeon-Platinum 8160M (2.1GHz/24-core/150W) FIO Processor Kit                                        | 876093-L21 |
| <b>NOTE:</b> Ships with High Performance Heatsink.                                                                       |            |
| HPE DL360 Gen10 Intel Xeon-Platinum 8160 (2.1GHz/24-core/150W) FIO Processor Kit                                         | 870974-L21 |
| <b>NOTE:</b> Ships with High Performance Heatsink.                                                                       |            |
| HPE DL360 Gen10 Intel Xeon-Platinum 8158 (3.0GHz/12-core/150W) FIO Processor Kit                                         | 874455-L21 |
| <b>NOTE:</b> Ships with High Performance Heatsink.                                                                       |            |
| HPE DL360 Gen10 Intel Xeon-Platinum 8156 (3.6GHz/4-core/105W) FIO Processor Kit                                          | 874452-L21 |
| <b>NOTE:</b> Ships with High Performance Heatsink.                                                                       |            |
| HPE DL360 Gen10 Intel Xeon-Platinum 8153 (2.0GHz/16-core/125W) FIO Processor Kit                                         | 870972-L21 |
| <b>2<sup>nd</sup> Generation Intel Xeon-Gold</b>                                                                         |            |
| HPE DL360 Gen10 Intel Xeon-Gold 6262V (1.9GHz/24-core/135W) FIO Processor Kit                                            | P11842-L21 |
| <b>NOTE:</b> Ships with High Performance Heatsink.                                                                       |            |
| HPE DL360 Gen10 Intel Xeon-Gold 6254 (3.1GHz/18-core/200W) FIO Processor Kit                                             | P02649-L21 |
| <b>NOTE:</b> Ships with High Performance Heatsink.                                                                       |            |
| HPE DL360 Gen10 Intel Xeon-Gold 6252 (2.1GHz/24-core/150W) FIO Processor Kit                                             | P02646-L21 |
| <b>NOTE:</b> Ships with High Performance Heatsink.                                                                       |            |
| HPE DL360 Gen10 Intel Xeon-Gold 6252N (2.3GHz/24-core/150W) FIO Processor Kit                                            | P11851-L21 |
| <b>NOTE:</b> Ships with High Performance Heatsink.                                                                       |            |
| HPE DL360 Gen10 Intel Xeon-Gold 6248 (2.5GHz/20-core/150W) FIO Processor Kit                                             | P02640-L21 |
| <b>NOTE:</b> Ships with High Performance Heatsink.                                                                       |            |
| HPE DL360 Gen10 Intel Xeon-Gold 6246 (3.3GHz/12-core/165W) FIO Processor Kit                                             | P15443-L21 |
| <b>NOTE:</b> Ships with High Performance Heatsink.                                                                       |            |
| HPE DL360 Gen10 Intel Xeon-Gold 6244 (3.6GHz/8-core/150W) FIO Processor Kit                                              | P02634-L21 |
| <b>NOTE:</b> Ships with High Performance Heatsink.                                                                       |            |
| HPE DL360 Gen10 Intel Xeon-Gold 6242 (2.8GHz/16-core/150W) FIO Processor Kit                                             | P02628-L21 |
| <b>NOTE:</b> Ships with High Performance Heatsink.                                                                       |            |
| HPE DL360 Gen10 Intel Xeon-Gold 6240 (2.6GHz/18-core/150W) FIO Processor Kit                                             | P02625-L21 |
| <b>NOTE:</b> Ships with High Performance Heatsink.                                                                       |            |
| HPE DL360 Gen10 Intel Xeon-Gold 6240Y (2.6GHz/18-14-8-core/150W) FIO Processor Kit                                       | P02613-L21 |
| <b>NOTE:</b> 18/14/8 cores would result in 2.6/2.8/3.1 GHz operating points                                              |            |

## Configuration Information - Factory Integrated Models

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6240L (2.6GHz/18-core/150W) FIO Processor Kit P02643-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6240M (2.6GHz/18-core/150W) FIO Processor Kit P02688-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6238 (2.1GHz/22-core/140W) FIO Processor Kit P02637-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6238L (2.1GHz/22-core/140W) FIO Processor Kit P02658-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6238M (2.1GHz/22-core/140W) FIO Processor Kit P02691-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6234 (3.3GHz/8-core/130W) FIO Processor Kit P02604-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6230 (2.1GHz/20-core/125W) FIO Processor Kit P02607-L21

HPE DL360 Gen10 Intel Xeon-Gold 6230N (2.3GHz/20-core/125W) FIO Processor Kit P11848-L21

HPE DL360 Gen10 Intel Xeon-Gold 6226 (2.7GHz/12-core/125W) FIO Processor Kit P02601-L21

HPE DL360 Gen10 Intel Xeon-Gold 6222V (1.8GHz/20-core/115W) FIO Processor Kit P11839-L21

HPE DL360 Gen10 Intel Xeon-Gold 6212U (2.4GHz/24-core/165W) FIO Processor Kit P02667-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6210U (2.5GHz/20-core/150W) FIO Processor Kit P02631-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6209U (2.1GHz/20-core/125W) FIO Processor Kit P02622-L21

HPE DL360 Gen10 Intel Xeon-Gold 5222 (3.8GHz/4-core/105W) FIO Processor Kit P02709-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 5220 (2.2GHz/18-core/125W) FIO Processor Kit P02595-L21

HPE DL360 Gen10 Intel Xeon-Gold 5220S (2.7GHz/18-core/125W) FIO Processor Kit P02577-L21

HPE DL360 Gen10 Intel Xeon-Gold 5218 (2.3GHz/16-core/125W) FIO Processor Kit P02592-L21

HPE DL360 Gen10 Intel Xeon-Gold 5218N (2.3GHz/16-core/110W) FIO Processor Kit P11845-L21

**NOTE:** 5218N processor- Intel® Speed Select Technology-Base Frequency enablement via June 2019 System ROM upgrade

HPE DL360 Gen10 Intel Xeon-Gold 5218B (2.3GHz/16-core/125W) FIO Processor Kit P12516-L21

**NOTE:** Consistent features with the 5218 processor but from a different die. Mixing both 5218B & 5218 in a system is not supported

HPE DL360 Gen10 Intel Xeon-Gold 5217 (3.0GHz/8-core/115W) FIO Processor Kit P02589-L21

HPE DL360 Gen10 Intel Xeon-Gold 5215 (2.5GHz/10-core/85W) FIO Processor Kit P02586-L21

HPE DL360 Gen10 Intel Xeon-Gold 5215L (2.5GHz/10-core/85W) FIO Processor Kit P02706-L21

HPE DL360 Gen10 Intel Xeon-Gold 5215M (2.5GHz/10-core/85W) FIO Processor Kit P02568-L21

### 1<sup>st</sup> Generation Intel Xeon-Gold

HPE DL360 Gen10 Intel Xeon-Gold 6154 (3.0GHz/18-core/200W) FIO Processor Kit 870970-L21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6152 (2.1GHz/22-core/140W) FIO Processor Kit 860677-L21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6150 (2.7GHz/18-core/165W) FIO Processor Kit 860675-L21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6148 (2.4GHz/20-core/150W) FIO Processor Kit 860673-L21



## Configuration Information - Factory Integrated Models

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6146 (3.2GHz/12-core/165W) FIO Processor Kit 860671-L21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6144 (3.5GHz/8-core/150W) FIO Processor Kit 870966-L21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6143 (2.8GHz/16-core/205W) FIO Processor Kit 879118-L21

**NOTE:** Ships with Performance Heatsink.

**NOTE:** Requires the High Performance Fan Kit (871244-B21)

**NOTE:** Supports "Core boosting" Learn more <http://www.hpe.com/info/ist>.

**NOTE:** To enable this feature an iLO Advanced, or iLO Advanced Premium Security edition License are required.

HPE DL360 Gen10 Intel Xeon-Gold 6142 (2.6GHz/16-core/150W) FIO Processor Kit 860669-L21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6140 (2.3GHz/18-core/140W) FIO Processor Kit 860667-L21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6138 (2.0GHz/20-core/125W) FIO Processor Kit 870968-L21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6136 (3.0GHz/12-core/150W) FIO Processor Kit 860691-L21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6134M (3.2GHz/8-core/130W) FIO Processor Kit 876087-L21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6134 (3.2GHz/8-core/130W) FIO Processor Kit 860689-L21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6132 (2.6GHz/14-core/140W) FIO Processor Kit 860681-L21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6130 (2.1GHz/16-core/125W) FIO Processor Kit 860687-L21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6128 (3.4GHz/6-core/115W) FIO Processor Kit 860685-L21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6126 (2.6GHz/12-core/125W) FIO Processor Kit 860683-L21

HPE DL360 Gen10 Intel Xeon-Gold 5122 (3.6GHz/4-core/105W) FIO Processor Kit 860679-L21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 5120 (2.2GHz/14-core/105W) FIO Processor Kit 860665-L21

HPE DL360 Gen10 Intel Xeon-Gold 5118 (2.3GHz/12-core/105W) FIO Processor Kit 860663-L21

HPE DL360 Gen10 Xeon-G 5117 FIO Kit P00793-L21

HPE DL360 Gen10 Intel Xeon-Gold 5115 (2.4GHz/10-core/85W) FIO Processor Kit 860661-L21

### 2<sup>nd</sup> Generation Intel Xeon- Silver

HPE DL360 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) FIO Processor Kit P02583-L21

HPE DL360 Gen10 Intel Xeon-Silver 4215 (2.5GHz/8-core/85W) FIO Processor Kit P02598-L21

HPE DL360 Gen10 Intel Xeon-Silver 4214Y (2.2GHz/12-10-8-core/85W) FIO Processor Kit P02610-L21

**NOTE:** 12/10/8 cores would result in 2.2/2.3/2.4 GHz operating points

HPE DL360 Gen10 Intel Xeon-Silver 4214 (2.2GHz/12-core/85W) FIO Processor Kit P02580-L21

HPE DL360 Gen10 Intel Xeon-Silver 4210 (2.2GHz/10-core/85W) FIO Processor Kit P02574-L21

HPE DL360 Gen10 Intel Xeon-Silver 4208 (2.1GHz/8-core/85W) FIO Processor Kit P02571-L21

### 1<sup>st</sup> Generation Intel Xeon-Silver

HPE DL360 Gen10 Intel Xeon-Silver 4116 (2.1GHz/12-core/85W) FIO Processor Kit 874449-L21

HPE DL360 Gen10 Intel Xeon-Silver 4114 (2.2GHz/10-core/85W) FIO Processor Kit 860657-L21

## Configuration Information - Factory Integrated Models

|                                                                              |            |
|------------------------------------------------------------------------------|------------|
| HPE DL360 Gen10 Intel Xeon-Silver 4112 (2.6GHz/4-core/85W) FIO Processor Kit | 860659-L21 |
| HPE DL360 Gen10 Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) FIO Processor Kit | 860653-L21 |
| HPE DL360 Gen10 Intel Xeon-Silver 4108 (1.8GHz/8-core/85W) FIO Processor Kit | 860655-L21 |
| <b>2<sup>nd</sup> Generation Intel Xeon- Bronze</b>                          |            |
| HPE DL360 Gen10 Intel Xeon-Bronze 3204 (1.9GHz/6-core/85W) FIO Processor Kit | P02565-L21 |
| <b>1<sup>st</sup> Generation Intel Xeon-Bronze</b>                           |            |
| HPE DL360 Gen10 Intel Xeon-Bronze 3106 (1.7GHz/8-core/85W) FIO Processor Kit | 860651-L21 |
| HPE DL360 Gen10 Intel Xeon-Bronze 3104 (1.7GHz/6-core/85W) FIO Processor Kit | 860649-L21 |

### Step 2b: Choose Memory Options

Please select one or more memory from below.

For new Gen10 memory population rule whitepaper and optimal memory performance guidelines, please go to:

<https://www.hpe.com/docs/memory-population-rules>

For Gen10 memory speed table, please go to: <https://www.hpe.com/docs/memory-speed-table>

For memory Reliability, Accessibility, Serviceability (RAS) features whitepaper like Gen10 Fast Fault Tolerance and legacy mirrored memory feature etc. please go to: <http://www.hpe.com/docs/memory-ras-feature>.

**NOTE:** Maximum memory capacity and speed per processor is dependent on processor model selection or limitation.

**NOTE:** DDR4-2933 Memory Kits are only supported with 2<sup>nd</sup> Generation Intel Xeon Scalable Series Processors and DDR4-2666 Memory Kits are only supported with 1<sup>st</sup> Generation Intel Xeon Scalable Series Processors.

#### Registered DIMMs (RDIMMs) for 2<sup>nd</sup> Generation Intel Xeon Scalable Series

|                                                                                     |            |
|-------------------------------------------------------------------------------------|------------|
| HPE 64GB (1x64GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit   | P00930-B21 |
| HPE 32GB (1x32GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit   | P00924-B21 |
| HPE 16GB (1x16GB) Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit   | P00922-B21 |
| HPE 16GB (1x16GB) Single Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit | P00920-B21 |
| HPE 8GB (1x8GB) Single Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit   | P00918-B21 |

#### Registered DIMMs (RDIMMs) for 1<sup>st</sup> Generation Intel Xeon Scalable Series

|                                                                                     |            |
|-------------------------------------------------------------------------------------|------------|
| HPE 32GB (1x32GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit   | 815100-B21 |
| HPE 16GB (1x16GB) Single Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit | 815098-B21 |
| HPE 16GB (1x16GB) Dual Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit   | 835955-B21 |
| HPE 8GB (1x8GB) Single Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit   | 815097-B21 |

#### Load Reduced DIMMs (LRDIMMs) for 2<sup>nd</sup> Generation Intel Xeon Scalable Series

|                                                                                            |            |
|--------------------------------------------------------------------------------------------|------------|
| HPE 128GB (1x128GB) Octal Rank x4 DDR4-2933 CAS-24-21-21 Load Reduced 3DS Smart Memory Kit | P00928-B21 |
| HPE 128GB (1x128GB) Quad Rank x4 DDR4-2933 CAS-24-21-21 Load Reduced Smart Memory Kit      | P11040-B21 |
| HPE 64GB (1x64GB) Quad Rank x4 DDR4-2933 CAS-21-21-21 Load Reduced Smart Memory Kit        | P00926-B21 |

#### Load Reduced DIMMs (LRDIMMs) for 1<sup>st</sup> Generation Intel Xeon Scalable Series

|                                                                                      |            |
|--------------------------------------------------------------------------------------|------------|
| HPE 128GB (1x128GB) Octal Rank x4 DDR4-2666 CAS-22-19-19 3DS Load Reduced Memory Kit | 815102-B21 |
| HPE 64GB (1x64GB) Quad Rank x4 DDR4-2666 CAS-19-19-19 Load Reduced Smart Memory Kit  | 815101-B21 |

#### HPE Persistent Memory

|                                                                |            |
|----------------------------------------------------------------|------------|
| HPE 512GB 2666 Persistent Memory Kit featuring Intel Optane DC | 835810-B21 |
| HPE 256GB 2666 Persistent Memory Kit featuring Intel Optane DC | 835807-B21 |
| HPE 128GB 2666 Persistent Memory Kit featuring Intel Optane DC | 835804-B21 |

**NOTE:** A maximum of 12 HPE Persistent Memory Kits supported with 2<sup>nd</sup> Generation Intel Xeon Scalable Processors (Platinum 8200, Gold 6200, Gold 5200, and 4215 **only**)

**NOTE:** For additional information regarding HPE Persistent Memory Population Rules visit:

<http://www.hpe.com/docs/memory-population-rules>

#### HPE Persistent Memory (NVDIMM)

|                                                     |            |
|-----------------------------------------------------|------------|
| HPE 16GB NVDIMM Single Rank x4 DDR4-2666 Module Kit | 845264-B21 |
|-----------------------------------------------------|------------|

## Configuration Information - Factory Integrated Models

**NOTE:** A maximum of 12 NVDIMMs supported with 1<sup>st</sup> Generation Intel Xeon Scalable Processors ONLY and can only be mixed with RDIMMs.

**NOTE:** For General Server Memory and NVDIMM Population Rules and Guidelines for Gen10 see details here: <http://www.hpe.com/docs/memory-population-rules>

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### Step 2c: Choose Power Supplies

Please select one or two power supplies from below.

**NOTE:** Mixing of 2 different power supplies is NOT supported.

#### HPE Flex Slot Power Supplies

|                                                                    |            |
|--------------------------------------------------------------------|------------|
| HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit  | 865408-B21 |
| HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit  | 865438-B21 |
| HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit  | 865414-B21 |
| HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit    | 865434-B21 |
| HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit | 865428-B21 |
| HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit | 830272-B21 |

**NOTE:** 1600W Power supplies only support high line voltage (200 VAC to 240 VAC).

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### Step 3: Choose Additional (FIO) Factory Integratable Options

Each of the following may be selected if desired at time of factory integration

|                               |            |
|-------------------------------|------------|
| HPE Gen10 TPM 1.2 FIO Setting | 872108-B21 |
|-------------------------------|------------|

**NOTE:** TPM 2.0 is set as default, for 1.2 TPM setting instead, please select this option.

|                             |            |
|-----------------------------|------------|
| HPE Legacy FIO Mode Setting | 758959-B22 |
|-----------------------------|------------|

**NOTE:** UEFI is the default, this FIO part can be used for CTO to enable Legacy mode.

#### HPE Converged Infrastructure Management Software

|                                                                                                |        |
|------------------------------------------------------------------------------------------------|--------|
| HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU | E5Y43A |
| HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU                                | P8B31A |

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### Step 4: Choose Additional Options for Factory Integration from Core and Additional Option sections below

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## Core Options

**NOTE:** Some options may not be integrated at the factory. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of a Hewlett Packard Enterprise approved configurator. Contact your local sales representative for additional information.

### HPE Unique Options

#### Risers

|                                                             |            |
|-------------------------------------------------------------|------------|
| HPE DL360 Gen10 Low Profile Riser Kit                       | 867982-B21 |
| HPE DL360 Gen10 SATA M.2 2280 Riser Kit                     | 867978-B21 |
| HPE DL360 Gen10 2P Full Height Riser and GPU Enablement Kit | 867980-B21 |

**NOTE:** This kit is not available on the 10 NVMe model.

| Riser Information* |                                                            |                |                |                                |                  |     |                     |          |
|--------------------|------------------------------------------------------------|----------------|----------------|--------------------------------|------------------|-----|---------------------|----------|
| Part number        | Description                                                | Riser position |                | Slot Bus width<br>(Gen3 lanes) |                  |     | NVMe Direct Connect |          |
|                    |                                                            | Primary        | Secondary      | #1                             | #2               | #3  | Connectors          | Max SSDs |
| n/a                | HPE DL360 Gen10 x16/x8 Primary GPU Riser                   | D              | N              | x16                            | x8               | O   |                     |          |
| 867978-B21         | HPE DL360 Gen10 x16/x16 SATA M.2 2280 Riser Kit            | O              | N              | x16                            | x16              | O   |                     |          |
| 867980-B21         | HPE DL360 Gen10 x16 FH GPU Riser Kit                       | N              | O              | O                              | n/a <sup>4</sup> | x16 |                     |          |
| 867982-B21         | HPE DL360 Gen10 x16 LP Riser Kit                           | N              | O              | O                              | O                | x16 |                     |          |
| n/a                | HPE DL360 Gen10 x16/x8 1-port 2SFF NVMe Riser <sup>1</sup> | O              | N              | x16                            | x8               | O   | 1                   | 2        |
| n/a                | HPE DL360 Gen10 5-port 10SFF NVMe Riser Kit <sup>2</sup>   | N              | D <sup>3</sup> | O                              | O                | O   | 5                   | 10       |
| 867972-B21         | HPE DL360 Gen10 1SFF SAS/SATA Rear Backplane Kit           | O              | N              | O                              | x8               | O   |                     |          |

**NOTE:** D = Default on chassis; O = Optional; N = not supported or slot/connector not present.

<sup>1</sup>Included on 2SFF NVMe Backplane Kit (871242-B21)

<sup>2</sup>Included on 10SFF chassis (867960-B21 & 875967-B21) or 10SFF Premium backplane kit (867974-B21)

<sup>3</sup>Included on 10SFF chassis (867960-B21 & 875967-B21)

<sup>4</sup>When secondary full height kit is installed, then primary PCIe Slot #2 cannot be used. Only 2 full height slots are supported.

**NOTE:** \*For additional details on ProLiant DL Gen10 server risers

please visit: <https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=a00043229enw>

## Core Options

### Performance Cooling Options

|                                                |            |
|------------------------------------------------|------------|
| HPE DL360 Gen10 High Performance Heat Sink Kit | 871246-B21 |
| HPE DL360 Gen10 High Performance Fan Kit       | 871244-B21 |

### Universal Media Bay Options

|                                                                               |            |
|-------------------------------------------------------------------------------|------------|
| HPE DL360 Gen10 2SFF SAS/SATA Backplane Kit                                   | 867966-B21 |
| HPE DL360 Gen10 2SFF NVMe Backplane Kit                                       | 871242-B21 |
| HPE DL360 Gen10 2SFF SATA UFF Backplane Kit                                   | 867970-B21 |
| HPE DL360 Gen10 8SFF Display Port/USB/Optical Drive Blank Kit                 | 868000-B21 |
| <b>NOTE:</b> This kit is required for Optical Drive option (8SFF model only). |            |
| HPE DL360 Gen10 LFF Display Port and USB Kit                                  | 868004-B21 |

### Optical Drive Options

|                                                           |            |
|-----------------------------------------------------------|------------|
| HPE Mobile USB DVD-RW Optical Drive                       | 701498-B21 |
| <b>NOTE:</b> This kit is supported on USB 3.0 ports only. |            |
| HPE 9.5mm SATA DVD-ROM Optical Drive                      | 726536-B21 |
| HPE 9.5mm SATA DVD-RW Optical Drive                       | 726537-B21 |

### System Insight Display Options

|                                                             |            |
|-------------------------------------------------------------|------------|
| HPE DL360 Gen10 SFF System Insight Display Power Module Kit | 867996-B21 |
| HPE DL360 Gen10 LFF System Insight Display Power Module Kit | 867994-B21 |

### Rear Drive Option Kit

|                                                      |            |
|------------------------------------------------------|------------|
| HPE DL360 Gen10 1SFF Rear SAS/SATA/UFF Backplane Kit | 867972-B21 |
|------------------------------------------------------|------------|

### 10 NVMe chassis Upgrade Kit

|                                                            |            |
|------------------------------------------------------------|------------|
| HPE DL360 Gen10 10SFF Premium Backplane Kit                | 867974-B21 |
| <b>NOTE:</b> This kit is supported on the 8SFF model only. |            |

### Security

|                                                 |            |
|-------------------------------------------------|------------|
| HPE Trusted Platform Module 2.0 Gen10 Option    | 864279-B21 |
| HPE DL360 Gen10 Chassis Intrusion Detection Kit | 867984-B21 |
| HPE 1U Gen10 Bezel Kit                          | 867998-B21 |
| HPE Bezel Lock Kit                              | 875519-B21 |

### Cable Kits

|                                                      |            |
|------------------------------------------------------|------------|
| HPE DL360 Gen10 SFF Internal Cable Kit               | 867990-B21 |
| HPE DL3XX Gen10 Rear Serial Cable and Enablement Kit | 873770-B21 |
| HPE DL360 Gen10 LFF Internal Cable Kit               | 873869-B21 |

## Core Options

### HPE Processors

**NOTE:** Mixing of 2 different processor models is not supported.

**NOTE:** For second processor, -B21 will add 2 additional fans (for 4 LFF and 8 SFF CTO Server). 10 NVMe CTO Server will always get 7 High Performance fans regardless of 1 or 2 processors.

**NOTE:** Processors with 130W or higher will ship with the High Performance heat sink plus SKUs 8256, 5222, 8156, 6128, 5122 as noted below. All other processors will ship with the Standard heat sink.

**NOTE:** When 2<sup>nd</sup> Generation Intel Xeon Scalable Processor is selected, then only DDR4-2933 Memory Kit can be selected; When 1<sup>st</sup> Generation Intel Xeon Scalable Processor is selected, then only DDR4-2666 Memory Kit can be selected

#### 2<sup>nd</sup> Generation Intel Xeon-Platinum

HPE DL360 Gen10 Intel Xeon-Platinum 8280 (2.7GHz/28-core/205W) Processor Kit P02679-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8280L (2.7GHz/28-core/205W) Processor Kit P02718-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8280M (2.7GHz/28-core/205W) Processor Kit P02703-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8276 (2.2GHz/28-core/165W) Processor Kit P02676-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8276L (2.2GHz/28-core/165W) Processor Kit P02715-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8276M (2.2GHz/28-core/165W) Processor Kit P02700-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8270 (2.7GHz/26-core/205W) Processor Kit P02673-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8268 (2.9GHz/24-core/205W) Processor Kit P02670-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8260 (2.4GHz/24-core/165W) Processor Kit P02661-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8260L (2.4GHz/24-core/165W) Processor Kit P02712-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8260M (2.4GHz/24-core/165W) Processor Kit P02694-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8260Y (2.4GHz/24-20-16-core/165W) Processor Kit P02682-B21

**NOTE:** 24/20/16 cores would result in 2.4/2.5/2.7 GHz operating points

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8256 (3.8GHz/4-core/105W) Processor Kit P02655-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8253 (2.2GHz/16-core/125W) Processor Kit P02652-B21

#### 1<sup>st</sup> Generation Intel Xeon-Platinum

HPE DL360 Gen10 Intel Xeon-Platinum 8180M (2.5GHz/28-core/205W) Processor Kit 876099-B21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8180 (2.5GHz/28-core/205W) Processor Kit 867988-B21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8176 (2.1GHz/28-core/165W) Processor Kit 870982-B21

## Core Options

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8170 (2.1GHz/26-core/165W) Processor Kit 870980-B21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8168 (2.7GHz/24-core/205W) Processor Kit 870978-B21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8165 (2.3GHz/24-core/205W) Processor Kit 879121-B21

**NOTE:** Ships with Performance Heatsink.

**NOTE:** Requires the High Performance Fan Kit (871244-B21)

**NOTE:** Supports "Core boosting" Learn more <http://www.hpe.com/info/ist>.

**NOTE:** To enable this feature an iLO Advanced, or iLO Advanced Premium Security edition License are required.

HPE DL360 Gen10 Intel Xeon-Platinum 8164 (2.0GHz/26-core/150W) Processor Kit 870976-B21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8160M (2.1GHz/24-core/150W) Processor Kit 876093-B21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8160 (2.1GHz/24-core/150W) Processor Kit 870974-B21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8158 (3.0GHz/12-core/150W) Processor Kit 874455-B21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8156 (3.6GHz/4-core/105W) Processor Kit 874452-B21

**NOTE:** Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8153 (2.0GHz/16-core/125W) Processor Kit 870972-B21

### 2<sup>nd</sup> Generation Intel Xeon-Gold

HPE DL360 Gen10 Intel Xeon-Gold 6262V (1.9GHz/24-core/135W) Processor Kit P11842-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6254 (3.1GHz/18-core/200W) Processor Kit P02649-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6252 (2.1GHz/24-core/150W) Processor Kit P02646-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6252N (2.3GHz/24-core/150W) Processor Kit P11851-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6248 (2.5GHz/20-core/150W) Processor Kit P02640-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6246 (3.3GHz/12-core/165W) Processor Kit P15443-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6244 (3.6GHz/8-core/150W) Processor Kit P02634-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6242 (2.8GHz/16-core/150W) Processor Kit P02628-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6240 (2.6GHz/18-core/150W) Processor Kit P02625-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6240Y (2.6GHz/18-14-8-core/150W) Processor Kit P02613-B21

**NOTE:** 18/14/8 cores would result in 2.6/2.8/3.1 GHz operating points

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6240L (2.6GHz/18-core/150W) Processor Kit P02643-B21



## Core Options

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6240M (2.6GHz/18-core/150W) Processor Kit P02688-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6238 (2.1GHz/22-core/140W) Processor Kit P02637-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6238L (2.1GHz/22-core/140W) Processor Kit P02658-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6238M (2.1GHz/22-core/140W) Processor Kit P02691-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6234 (3.3GHz/8-core/130W) Processor Kit P02604-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6230 (2.1GHz/20-core/125W) Processor Kit P02607-B21

HPE DL360 Gen10 Intel Xeon-Gold 6230N (2.3GHz/20-core/125W) Processor Kit P11848-B21

HPE DL360 Gen10 Intel Xeon-Gold 6226 (2.7GHz/12-core/125W) Processor Kit P02601-B21

HPE DL360 Gen10 Intel Xeon-Gold 6222V (1.8GHz/20-core/115W) Processor Kit P11839-B21

HPE DL360 Gen10 Intel Xeon-Gold 6212U (2.4GHz/24-core/165W) Processor Kit P02667-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6210U (2.5GHz/20-core/150W) Processor Kit P02631-B21

**NOTE:** Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6209U (2.1GHz/20-core/125W) Processor Kit P02622-B21

HPE DL360 Gen10 Intel Xeon-Gold 5222 (3.8GHz/4-core/105W) Processor Kit P02709-B21

HPE DL360 Gen10 Intel Xeon-Gold 5220 (2.2GHz/18-core/125W) Processor Kit P02595-B21

HPE DL360 Gen10 Intel Xeon-Gold 5220 (2.2 GHz/18-core/125W) Processor Kit

HPE DL360 Gen10 Intel Xeon-Gold 5220S (2.7GHz/18-core/125W) Processor Kit P02577-B21

HPE DL360 Gen10 Intel Xeon-Gold 5218 (2.3GHz/16-core/125W) Processor Kit P02592-B21

HPE DL360 Gen10 Intel Xeon-Gold 5218N (2.3GHz/16-core/110W) Processor Kit P11845-B21

**NOTE:** 5218N processor- Intel® Speed Select Technology-Base Frequency enablement via June 2019 System ROM upgrade

HPE DL360 Gen10 Intel Xeon-Gold 5218B (2.3GHz/16-core/125W) Processor Kit P12516-B21

**NOTE:** Consistent features with the 5218 processor but from a different die. Mixing both 5218B & 5218 in a system is not supported

HPE DL360 Gen10 Intel Xeon-Gold 5217 (3.0GHz/8-core/115W) Processor Kit P02589-B21

HPE DL360 Gen10 Intel Xeon-Gold 5215 (2.5GHz/10-core/85W) Processor Kit P02586-B21

HPE DL360 Gen10 Intel Xeon-Gold 5215L (2.5GHz/10-core/85W) Processor Kit P02706-B21

HPE DL360 Gen10 Intel Xeon-Gold 5215M (2.5GHz/10-core/85W) Processor Kit P02568-B21

### 1<sup>st</sup> Generation Intel Xeon-Gold

HPE DL360 Gen10 Intel Xeon-Gold 6154 (3.0GHz/18-core/200W) Processor Kit 870970-B21

**NOTE:** Ships with Performance Heatsink

HPE DL360 Gen10 Intel Xeon-Gold 6152 (2.1GHz/22-core/140W) Processor Kit 860677-B21

**NOTE:** Ships with Performance Heatsink

HPE DL360 Gen10 Intel Xeon-Gold 6150 (2.7GHz/18-core/165W) Processor Kit 860675-B21

**NOTE:** Ships with Performance Heatsink

HPE DL360 Gen10 Intel Xeon-Gold 6148 (2.4GHz/20-core/150W) Processor Kit 860673-B21

**NOTE:** Ships with Performance Heatsink

HPE DL360 Gen10 Intel Xeon-Gold 6146 (3.2GHz/12-core/165W) Processor Kit 860671-B21



## Core Options

**NOTE:** Ships with Performance Heatsink

HPE DL360 Gen10 Intel Xeon-Gold 6144 (3.5GHz/8-core/150W) Processor Kit 870966-B21

**NOTE:** Ships with Performance Heatsink

HPE DL360 Gen10 Intel Xeon-Gold 6143 (2.8GHz/16-core/205W) Processor Kit 879118-B21

**NOTE:** Ships with Performance Heatsink.

**NOTE:** Requires the High Performance Fan Kit (871244-B21)

**NOTE:** Supports "Core boosting" Learn more <http://www.hpe.com/info/ist>.

**NOTE:** To enable this feature an iLO Advanced, or iLO Advanced Premium Security edition License are required.

HPE DL360 Gen10 Intel Xeon-Gold 6142 (2.6GHz/16-core/150W) Processor Kit 860669-B21

**NOTE:** Ships with Performance Heatsink

HPE DL360 Gen10 Intel Xeon-Gold 6140 (2.3GHz/18-core/140W) Processor Kit 860667-B21

**NOTE:** Ships with Performance Heatsink

HPE DL360 Gen10 Intel Xeon-Gold 6138 (2.0GHz/20-core/125W) Processor Kit 870968-B21

**NOTE:** Ships with Performance Heatsink

HPE DL360 Gen10 Intel Xeon-Gold 6136 (3.0GHz/12-core/150W) Processor Kit 860691-B21

**NOTE:** Ships with Performance Heatsink

HPE DL360 Gen10 Intel Xeon-Gold 6134M (3.2GHz/8-core/130W) Processor Kit 876087-B21

**NOTE:** Ships with Performance Heatsink

HPE DL360 Gen10 Intel Xeon-Gold 6134 (3.2GHz/8-core/130W) Processor Kit 860689-B21

**NOTE:** Ships with Performance Heatsink

HPE DL360 Gen10 Intel Xeon-Gold 6132 (2.6GHz/14-core/140W) Processor Kit 860681-B21

**NOTE:** Ships with Performance Heatsink

HPE DL360 Gen10 Intel Xeon-Gold 6130 (2.1GHz/16-core/125W) Processor Kit 860687-B21

**NOTE:** Ships with Performance Heatsink

HPE DL360 Gen10 Intel Xeon-Gold 6128 (3.4GHz/6-core/115W) Processor Kit 860685-B21

**NOTE:** Ships with Performance Heatsink

HPE DL360 Gen10 Intel Xeon-Gold 6126 (2.6GHz/12-core/125W) Processor Kit 860683-B21

**NOTE:** Ships with Performance Heatsink

HPE DL360 Gen10 Intel Xeon-Gold 5122 (3.6GHz/4-core/105W) Processor Kit 860679-B21

**NOTE:** Ships with Performance Heatsink

HPE DL360 Gen10 Intel Xeon-Gold 5120 (2.2GHz/14-core/105W) Processor Kit 860665-B21

HPE DL360 Gen10 Intel Xeon-Gold 5118 (2.3GHz/12-core/105W) Processor Kit 860663-B21

HPE DL360 Gen10 Xeon-G 5117 Kit P00793-B21

HPE DL360 Gen10 Intel Xeon-Gold 5115 (2.4GHz/10-core/85W) Processor Kit 860661-B21

### 2<sup>nd</sup> Generation Intel Xeon-Silver

HPE DL360 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) Processor Kit P02583-B21

HPE DL360 Gen10 Intel Xeon-Silver 4215 (2.5GHz/8-core/85W) Processor Kit P02598-B21

HPE DL360 Gen10 Intel Xeon-Silver 4214Y (2.2GHz/12-10-8-core/85W) Processor Kit P02610-B21

**NOTE:** 12/10/8 cores would result in 2.2/2.3/2.4 GHz operating points

HPE DL360 Gen10 Intel Xeon-Silver 4214 (2.2GHz/12-core/85W) Processor Kit P02580-B21

HPE DL360 Gen10 Intel Xeon-Silver 4210 (2.2GHz/10-core/85W) Processor Kit P02574-B21

HPE DL360 Gen10 Intel Xeon-Silver 4208 (2.1GHz/8-core/85W) Processor Kit P02571-B21

### 1<sup>st</sup> Generation Intel Xeon-Silver

HPE DL360 Gen10 Intel Xeon-Silver 4116 (2.1GHz/12-core/85W) Processor Kit 874449-B21

HPE DL360 Gen10 Intel Xeon-Silver 4114 (2.2GHz/10-core/85W) Processor Kit 860657-B21

## Core Options

|                                                                          |            |
|--------------------------------------------------------------------------|------------|
| HPE DL360 Gen10 Intel Xeon-Silver 4112 (2.6GHz/4-core/85W) Processor Kit | 860659-B21 |
| HPE DL360 Gen10 Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) Processor Kit | 860653-B21 |
| HPE DL360 Gen10 Intel Xeon-Silver 4108 (1.8GHz/8-core/85W) Processor Kit | 860655-B21 |
| <b>2<sup>nd</sup> Generation Intel Xeon- Bronze</b>                      |            |
| HPE DL360 Gen10 Intel Xeon-Bronze 3204 (1.9GHz/6-core/85W) Processor Kit | P02565-B21 |
| <b>1<sup>st</sup> Generation Intel Xeon-Bronze</b>                       |            |
| HPE DL360 Gen10 Intel Xeon-Bronze 3106 (1.7GHz/8-core/85W) Processor Kit | 860651-B21 |
| HPE DL360 Gen10 Intel Xeon-Bronze 3104 (1.7GHz/6-core/85W) Processor Kit | 860649-B21 |

## HPE Memory

For new Gen10 memory population rule whitepaper and optimal memory performance guidelines, please go to:

<https://www.hpe.com/docs/memory-population-rules>

For Gen10 memory speed table, please go to: <https://www.hpe.com/docs/memory-speed-table>

For memory Reliability, Accessibility, Serviceability (RAS) features whitepaper like Gen10 Fast Fault Tolerance and legacy mirrored memory feature etc. please go to: <http://www.hpe.com/docs/memory-ras-feature>

**NOTE:** Maximum memory capacity and speed per processor is dependent on processor model selection or limitation.

**NOTE:** DDR4-2933 Memory Kits are only supported with 2nd Generation Intel Xeon Scalable Series Processors and DDR4-2666 Memory Kits are only supported with 1st Generation Intel Xeon Scalable Series Processors.

## HPE DDR4 Memory

### Registered DIMMs (RDIMMs) for 2<sup>nd</sup> Generation Intel Xeon Scalable Series

|                                                                                     |            |
|-------------------------------------------------------------------------------------|------------|
| HPE 64GB (1x64GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit   | P00930-B21 |
| HPE 32GB (1x32GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit   | P00924-B21 |
| HPE 16GB (1x16GB) Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit   | P00922-B21 |
| HPE 16GB (1x16GB) Single Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit | P00920-B21 |
| HPE 8GB (1x8GB) Single Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit   | P00918-B21 |

### Registered DIMMs (RDIMMs) for 1<sup>st</sup> Generation Intel Xeon Scalable Series

|                                                                                     |            |
|-------------------------------------------------------------------------------------|------------|
| HPE 32GB (1x32GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit   | 815100-B21 |
| HPE 16GB (1x16GB) Single Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit | 815098-B21 |
| HPE 16GB (1x16GB) Dual Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit   | 835955-B21 |
| HPE 8GB (1x8GB) Single Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit   | 815097-B21 |

### Load Reduced DIMMs (LRDIMMs) for 2<sup>nd</sup> Generation Intel Xeon Scalable Series

|                                                                                            |            |
|--------------------------------------------------------------------------------------------|------------|
| HPE 128GB (1x128GB) Octal Rank x4 DDR4-2933 CAS-24-21-21 Load Reduced 3DS Smart Memory Kit | P00928-B21 |
| HPE 128GB (1x128GB) Quad Rank x4 DDR4-2933 CAS-24-21-21 Load Reduced Smart Memory Kit      | P11040-B21 |
| HPE 64GB (1x64GB) Quad Rank x4 DDR4-2933 CAS-21-21-21 Load Reduced Smart Memory Kit        | P00926-B21 |

### Load Reduced DIMMs (LRDIMMs) for 1<sup>st</sup> Generation Intel Xeon Scalable Series

|                                                                                      |            |
|--------------------------------------------------------------------------------------|------------|
| HPE 128GB (1x128GB) Octal Rank x4 DDR4-2666 CAS-22-19-19 3DS Load Reduced Memory Kit | 815102-B21 |
| HPE 64GB (1x64GB) Quad Rank x4 DDR4-2666 CAS-19-19-19 Load Reduced Smart Memory Kit  | 815101-B21 |

## HPE Persistent Memory

|                                                                |            |
|----------------------------------------------------------------|------------|
| HPE 512GB 2666 Persistent Memory Kit featuring Intel Optane DC | 835810-B21 |
| HPE 256GB 2666 Persistent Memory Kit featuring Intel Optane DC | 835807-B21 |
| HPE 128GB 2666 Persistent Memory Kit featuring Intel Optane DC | 835804-B21 |

**NOTE:** A maximum of 12 HPE Persistent Memory Kits supported with 2<sup>nd</sup> Generation Intel Xeon Scalable Processors (Platinum 8200, Gold 6200, Gold 5200, and 4215 **only**)

**NOTE:** For additional information regarding HPE Persistent Memory Population Rules

visit: <http://www.hpe.com/docs/memory-population-rules>

## Core Options

### HPE Persistent Memory (NVDIMM)

HPE 16GB NVDIMM Single Rank x4 DDR4-2666 Module Kit

845264-B21

**NOTE:** A maximum of 12 NVDIMMs supported with 1<sup>st</sup> Generation Intel Xeon Scalable Processors ONLY and can only be mixed with RDIMMs.

**NOTE:** For General Server Memory and NVDIMM Population Rules and Guidelines for Gen10 see details here:

<http://www.hpe.com/docs/memory-population-rules>

### HPE Drives

For HDDs with optimal product availability, HPE advocates HDDs from the list located here:

#### Enterprise - 12G SAS - SFF Drives

|                                                                                            |            |
|--------------------------------------------------------------------------------------------|------------|
| HPE 2.4TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD | 881457-B21 |
| HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD | 872481-B21 |
| HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD      | 872479-B21 |
| HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD      | 870759-B21 |
| HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD      | 870757-B21 |
| HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD      | 872477-B21 |
| HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD      | 870753-B21 |
| HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD      | 872475-B21 |

#### Midline - 12G SAS - LFF Drives

|                                                                                                |            |
|------------------------------------------------------------------------------------------------|------------|
| HPE 14TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD | P09153-B21 |
| HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD         | 819201-B21 |
| HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD              | 846514-B21 |
| HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD                                   | 861754-B21 |
| HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD              | 872487-B21 |
| HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD              | 872485-B21 |
| HPE 1TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD              | 846524-B21 |

#### Midline - 12G SAS - SFF Drives

|                                                                                        |            |
|----------------------------------------------------------------------------------------|------------|
| HPE 2TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD                           | 765466-B21 |
| HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD      | 832514-B21 |
| HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD | 765464-B21 |

#### Midline - 6G SATA - LFF Drives

|                                                                                                |            |
|------------------------------------------------------------------------------------------------|------------|
| HPE 14TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD | P09163-B21 |
| HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD         | 819203-B21 |
| HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD                                   | 861750-B21 |
| HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD              | 872491-B21 |
| HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD              | 872489-B21 |
| HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD                                        | 861691-B21 |

#### Midline 6G SATA - SFF Drives

|                                                                                        |            |
|----------------------------------------------------------------------------------------|------------|
| HPE 2TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD | 765455-B21 |
|----------------------------------------------------------------------------------------|------------|

### SSD Selection

For SSD selection guidance, please visit <https://ssd.hpe.com/>

For SSDs with optimal product availability, HPE advocates SSDs from the list located here:

#### Read Intensive - 12G SAS - SFF - Solid State Drives

|                                                                                        |            |
|----------------------------------------------------------------------------------------|------------|
| HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P04523-B21 |
| HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P04521-B21 |

## Core Options

|                                                                                                  |            |
|--------------------------------------------------------------------------------------------------|------------|
| HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD           | P04519-B21 |
| HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD            | P04517-B21 |
| HPE 15.3TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD           | P06592-B21 |
| HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD | P10446-B21 |
| HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD           | P06590-B21 |
| HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD | P10444-B21 |
| HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD           | P06588-B21 |
| HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD | P10442-B21 |
| HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD           | P06586-B21 |
| HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD  | P10440-B21 |
| HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD            | P06584-B21 |

### Mixed Use - 12G SAS - SFF - Solid State Drives

|                                                                                             |            |
|---------------------------------------------------------------------------------------------|------------|
| HPE 6.4TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD            | P04539-B21 |
| HPE 3.84TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD | P10460-B21 |
| HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD            | P04537-B21 |
| HPE 1.92TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD | P10454-B21 |
| HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD            | P04533-B21 |
| HPE 960GB SAS 12G Mixed Use SC 3yr Wty Value SAS Digitally Signed Firmware SSD              | P10448-B21 |
| HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD            | P04527-B21 |
| HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD            | P04525-B21 |

### Write Intensive - 12G SAS - SFF - Solid State Drives

|                                                                                        |            |
|----------------------------------------------------------------------------------------|------------|
| HPE 1.6TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P04545-B21 |
| HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P04543-B21 |
| HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P04541-B21 |

### Mixed Use - 12G SAS - LFF - Solid State Drives

|                                                                                              |            |
|----------------------------------------------------------------------------------------------|------------|
| HPE 1.92TB SAS 12G Mixed Use LFF (3.5in) SCC 3yr Wty Value SAS Digitally Signed Firmware SSD | P10456-B21 |
| HPE 960GB SAS 12G Mixed Use LFF (3.5in) SCC 3yr Wty Value SAS Digitally Signed Firmware SSD  | P10450-B21 |
| HPE 800GB SAS 12G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD            | P04529-B21 |

### Read Intensive - PCIe/NVMe - SFF - Solid State Drives

|                                                                                                |            |
|------------------------------------------------------------------------------------------------|------------|
| HPE 15.36TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | P07198-B21 |
| HPE 7.68TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD  | P07196-B21 |
| HPE 7.68TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD  | P10218-B21 |
| HPE 3.84TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD  | P10212-B21 |
| HPE 3.84TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD  | P07194-B21 |
| HPE 3.84TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD  | P10216-B21 |
| HPE 2TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD     | 877986-B21 |
| HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD  | P10214-B21 |
| HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD  | P10210-B21 |
| HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD  | P07192-B21 |
| HPE 960GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD   | P10208-B21 |
| HPE 960GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD   | P07190-B21 |

### Read Intensive - SATA - SFF - Solid State Drives

|                                                                                        |            |
|----------------------------------------------------------------------------------------|------------|
| HPE 7.68TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P04482-B21 |
| HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P04480-B21 |
| HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P04570-B21 |

## Core Options

|                                                                                        |            |
|----------------------------------------------------------------------------------------|------------|
| HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P04478-B21 |
| HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P04566-B21 |
| HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD  | P04476-B21 |
| HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD  | P04564-B21 |
| HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD  | P04474-B21 |
| HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD  | P04560-B21 |
| HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD  | 875503-B21 |
| HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD  | P04556-B21 |

### Read Intensive - SATA - LFF - Solid State Drives

|                                                                                         |            |
|-----------------------------------------------------------------------------------------|------------|
| HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | P09693-B21 |
| HPE 960GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD  | P09689-B21 |
| HPE 480GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD  | P09687-B21 |

### Mixed Use - PCIe/NVMe - SFF - Solid State Drives

|                                                                                         |            |
|-----------------------------------------------------------------------------------------|------------|
| HPE 6.4TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | P07185-B21 |
| HPE 6.4TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | P10226-B21 |
| HPE 3.2TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | P07183-B21 |
| HPE 3.2TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | P10224-B21 |
| HPE 3.2TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 877998-B21 |
| HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | P07181-B21 |
| HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | P10222-B21 |
| HPE 800GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | P07179-B21 |

### Write Intensive- PCIe/NVMe - SFF - Solid State Drives

|                                                                                               |            |
|-----------------------------------------------------------------------------------------------|------------|
| HPE 750GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | P06952-B21 |
| HPE 375GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD | 878014-B21 |

### Mixed Use - SATA - SFF - Solid State Drives

|                                                                                   |            |
|-----------------------------------------------------------------------------------|------------|
| HPE 3.84TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P00896-B21 |
| HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P09722-B21 |
| HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | P07930-B21 |
| HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD  | P09716-B21 |
| HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD  | P07926-B21 |
| HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD  | P09712-B21 |
| HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD  | P07922-B21 |

### Mixed Use - SATA - LFF - Solid State Drives

|                                                                                    |            |
|------------------------------------------------------------------------------------|------------|
| HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | P07932-B21 |
| HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | P09724-B21 |
| HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD  | P09718-B21 |
| HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD  | P07928-B21 |
| HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD  | P07924-B21 |

### Internal Dual M.2 Kit

|                                         |            |
|-----------------------------------------|------------|
| HPE Universal SATA HHHL 3yr Wty M.2 Kit | 878783-B21 |
|-----------------------------------------|------------|

**NOTE:** The Universal SATA M.2 Kit above will require a PCIe slot and support up to two of the same M.2 cards below.

|                                         |            |
|-----------------------------------------|------------|
| HPE DL360 Gen10 SATA M.2 2280 Riser Kit | 867978-B21 |
|-----------------------------------------|------------|

**NOTE:** The DL360 SATA M.2 Riser Kit above is part of the Primary Riser so it will not take up a PCIe slot and will support up to two of the same M.2 cards below.

### Read Intensive - M.2 - Solid State Drives (2280 type)



## Core Options

HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD 875498-B21

### Mixed Use - M.2 - Solid State Drives (2280 type)

HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD 875490-B21

HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD 875488-B21

### Hard Drive Blank Kits

HPE Large Form Factor Hard Drive Blank Kit 666986-B21

HPE Small Form Factor Hard Drive Blank Kit 666987-B21

## HPE Networking

### 100 Gigabit Ethernet adapters

HPE Ethernet 100Gb 1-port 842QSFP28 Adapter 874253-B21

### 25 Gigabit Ethernet adapters

HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter 817753-B21

HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter 817718-B21

HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter 867328-B21

### 10 Gigabit Ethernet adapters

HPE Ethernet 10Gb 2-port 562T Adapter 817738-B21

HPE Ethernet 10Gb 2-port 562SFP+ Adapter 727055-B21

HPE Ethernet 10Gb 2-port 548SFP+ Adapter P11338-B21

HPE Ethernet 10Gb 2-port 535T Adapter 813661-B21

HPE Ethernet 10Gb 2-port 530SFP Adapter 652503-B21

HPE Ethernet 10Gb 2-port 524SFP+ Adapter P08446-B21

HPE Ethernet 10Gb 2-port 530T Adapter 656596-B21

HPE Ethernet 10Gb 2-port 521T Adapter 867707-B21

### 1 Gigabit Ethernet adapters

HPE Ethernet 1Gb 4-port 366T Adapter 811546-B21

HPE Ethernet 1Gb 4-port 331T Adapter 647594-B21

HPE Ethernet 1Gb 2-port 361T Adapter 652497-B21

HPE Ethernet 1Gb 2-port 332T Adapter 615732-B21

### FlexibleLOM Adapters

HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter 817749-B21

HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter 817709-B21

HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter 867334-B21

HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter 727054-B21

HPE Ethernet 10Gb 2-port 562FLR-T Adapter 817745-B21

HPE FlexFabric 10Gb 4-port 536FLR-T Adapter 764302-B21

HPE Ethernet 10Gb 2-port 535FLR-T Adapter 817721-B21

HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter 700751-B21

HPE FlexFabric 10Gb 2-port 533FLR-T Adapter 700759-B21

HPE Ethernet 1Gb 4-port 331FLR Adapter 629135-B22

HPE Ethernet 1Gb 4-port 366FLR Adapter 665240-B21

## HPE InfiniBand

HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter 872726-B21

## Core Options

|                                                                                       |            |
|---------------------------------------------------------------------------------------|------------|
| HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter                     | 764285-B21 |
| HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter                         | 764284-B21 |
| HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter                        | 879482-B21 |
| HPE InfiniBand EDR 100Gb 1-port 841QSFP28 Adapter                                     | 872725-B21 |
| HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter                            | 825110-B21 |
| HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter                            | 825111-B21 |
| HPE 100Gb 1-port OP101 QSFP28 x16 PCIe Gen3 with Intel Omni-Path Architecture Adapter | 829335-B21 |

**NOTE:** For additional InfiniBand information: <https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04154440>.

## HPE Power Supplies

HPE Flexible Slot (Flex Slot) Power Supplies share a common electrical and physical design that allows for hot plug, tool-less installation into HPE ProLiant Gen10 Performance Servers. Flex Slot power supplies are certified for high-efficiency operation and offer multiple power output options, allowing users to "right-size" a power supply for specific server configurations. This flexibility helps to reduce power waste, lower overall energy costs, and avoid "trapped" power capacity in the data center.

All pre-configured servers ship with a standard 6-foot IEC C-13/C-14 jumper cord (AOK02A). This jumper cord is also included with each standard AC power supply option kit. If a different power cord is required, please check the [ProLiant Power Cables](#) web page.

To review the power requirements for your selected system, please use the [HPE Power Advisor Tool](#).

For information on power specifications and technical content visit [HPE Server power supplies](#).

## HPE Flex Slot Platinum Hot-plug Power supplies

|                                                                    |            |
|--------------------------------------------------------------------|------------|
| HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit | 830272-B21 |
|--------------------------------------------------------------------|------------|

**NOTE:** 1600W Power supplies only support high line voltage (200 VAC to 240 VAC).

|                                                                    |            |
|--------------------------------------------------------------------|------------|
| HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit  | 865414-B21 |
| HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit  | 865438-B21 |
| HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit    | 865434-B21 |
| HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit | 865428-B21 |
| HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit  | 865408-B21 |

## Core Options

| GPGPU Information |                                   |               |                                       |            | HPE DL360 Configuration |      |                                       |                                       |                          |                                    |
|-------------------|-----------------------------------|---------------|---------------------------------------|------------|-------------------------|------|---------------------------------------|---------------------------------------|--------------------------|------------------------------------|
| Part number       | Card                              | Qty supported | Processor supported                   | PCIe speed | 4LFF                    | 8SFF | 8+2SFF SAS/SATA/Dual M.2 <sup>1</sup> | 8+2SFF SAS/SATA/Dual M.2 <sup>2</sup> | 8+2SFF NVMe <sup>3</sup> | 10SFF SAS/SATA / NVMe <sup>4</sup> |
| Q9B37A            | Intel Arria 10GX FPGA Accelerator | 2             | 1 <sup>st</sup> & 2 <sup>nd</sup> Gen | Gen3       | 35C                     | 35C  | 25C                                   | 30C                                   | 30C                      | 30C                                |
| Q0V77A            | NVIDIA Quadro P2000 GPU Module    | 2             | 1 <sup>st</sup> & 2 <sup>nd</sup> Gen | Gen3       | 35C                     | 35C  | 25C                                   | 30C                                   | 30C                      | 30C                                |
| Q0V78A            | NVIDIA Quadro P4000 GPU Module    | 2             | 1 <sup>st</sup> & 2 <sup>nd</sup> Gen | Gen3       | 35C                     | 35C  | 25C                                   | 30C                                   | 30C                      | 30C                                |
| Q0V79A            | NVIDIA Tesla P4 8GB Module        | 2             | 1 <sup>st</sup> Gen                   | Gen3       | 35C                     | 35C  | 25C                                   | 30C                                   | 30C                      | 30C                                |

**NOTE:** The 2nd digit of the processor model number “x1xx” and “x2xx” is used to denote the processor generation (i.e. 1=1st generation and 2=2nd generation)

**NOTE:** When NVMe drives are installed you will be limited to Slot1 only for any Accelerator module.

1 - With standard system fans

2 - With High Performance system fans

3 - Requires high performance fans with 2SFF NVMe configuration.

4 - Requires high performance fans (Note these shipped standard on 10SFF models).

**NOTE:** There is no Energy Star certification with Graphic cards supported.

### HPE Computation and Graphics Accelerators

Intel Arria 10 GX FPGA Accelerator Q9B37A

HPE NVIDIA Tesla T4 16GB Computational Accelerator ROW29A

**NOTE:** Only supported with 1st Generation Intel Xeon Scalable processors

HPE NVIDIA Quadro P4000 Graphics Accelerator Q0V78A

HPE NVIDIA Quadro P2000 Graphics Accelerator Q0V77A

**NOTE:** If any of these accelerators intended for slot 3 and configured with an AROC, the latter needs to have a low profile heatsink

HPE DL360 Gen10 GPU CPU1 Cable Kit 871248-B21



## Additional Options

**NOTE:** Some options may not be integrated at the factory. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of an HPE approved configurator. Contact your local sales representative for additional information.

### Embedded Management

#### HPE iLO Advanced

|                                                                                      |            |
|--------------------------------------------------------------------------------------|------------|
| HPE iLO Advanced 1-server License with 1yr Support on iLO Licensed Features          | 512485-B21 |
| HPE iLO Advanced Flexible Quantity License with 1yr Support on iLO Licensed Features | 512486-B21 |
| HPE iLO Advanced AKA Tracking License with 1yr Support on iLO Licensed Features      | 512487-B21 |
| HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features          | BD505A     |
| HPE iLO Advanced Flexible Quantity License with 3yr Support on iLO Licensed Features | BD506A     |
| HPE iLO Advanced AKA Tracking License with 3yr Support on iLO Licensed Features      | BD507A     |
| HPE iLO Advanced Electronic License with 1yr Support on iLO Licensed Features        | E6U59ABE   |
| HPE iLO Advanced Electronic License with 3yr Support on iLO Licensed Features        | E6U64ABE   |

### HPE Converged Infrastructure Management Software

#### HPE OneView Advanced (with HPE iLO Advanced)

|                                                                |          |
|----------------------------------------------------------------|----------|
| HPE OneView including 3yr 24x7 Support Physical 1-server LTU   | E5Y34A   |
| HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU | E5Y35AAE |

#### HPE OneView Advanced (without HPE iLO Advanced)

|                                                                        |          |
|------------------------------------------------------------------------|----------|
| HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU            | P8B24A   |
| HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server LTU      | P8B25A   |
| HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU | P8B26AAE |
| HPE OneView Physical Media Kit LTU                                     | E5Y37A   |

**NOTE:** Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: <https://www.hpe.com/us/en/integrated-systems/software.html>

**NOTE:** Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.

**NOTE:** Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: <https://www.hpe.com/us/en/integrated-systems/software.html>

### HPE PCIe Workload Accelerator Options

|                                                                                     |            |
|-------------------------------------------------------------------------------------|------------|
| HPE 1.6TB NVMe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card       | P10264-B21 |
| HPE 3.2TB NVMe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card       | P10266-B21 |
| HPE 6.4TB NVMe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card       | P10268-B21 |
| HPE 750GB PCIe x4 Lanes Write Intensive HHHL 3yr Wty Digitally Signed Firmware Card | 878038-B21 |

**NOTE:** Please see the [HPE PCIe Workload Accelerators for ProLiant Servers QuickSpecs](#) for Technical Specifications and additional information.

### HPE Security

|                                                 |            |
|-------------------------------------------------|------------|
| HPE 1U Gen10 Bezel Kit                          | 867998-B21 |
| HPE Bezel Lock Kit                              | 875519-B21 |
| HPE DL360 Gen10 Chassis Intrusion Detection Kit | 867984-B21 |

**NOTE:** This provides a physical connection from the chassis board and hood and detects any physical intrusion into the chassis, providing security during the entire supply chain process of shipping, receiving, distribution, and operation.

|                                              |            |
|----------------------------------------------|------------|
| HPE Trusted Platform Module 2.0 Gen10 Option | 864279-B21 |
|----------------------------------------------|------------|

## Additional Options

**NOTE:** HPE Trusted Platform Module 2.0 option works with Gen10 servers with UEFI Mode not Legacy Mode. It is not compatible with HPE ProLiant Gen8 servers or earlier generation variants.

**NOTE:** HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.

### HPE Storage Controllers

**NOTE:** For additional details, please see HPE Smart Array Gen10 Controllers Data Sheet at:

<https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=a00017196ENW>

### HPE Flexible Smart Array Controllers

|                                                                                                      |            |
|------------------------------------------------------------------------------------------------------|------------|
| HPE Smart Array P816i-a SR Gen10 (16 Internal Lanes/4GB Cache/SmartCache) 12G SAS Modular Controller | 804338-B21 |
| HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular Controller             | 804331-B21 |
| HPE Smart Array P816i-a SR Gen10 (16 Int Lanes/4GB Cache/SmartCache) 12G SAS Modular LH Controller   | 869083-B21 |
| HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular LH Controller          | 869081-B21 |
| HPE Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular LH Controller           | 869079-B21 |
| HPE Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular Controller              | 804326-B21 |

**NOTE:** The Low Height (LH) controller is required when a PCIe card that exceeds half-length is used in slots 2 or 3".

### HPE Smart Array Controllers

|                                                                                                  |            |
|--------------------------------------------------------------------------------------------------|------------|
| HPE Smart Array P824i-p MR Gen10 (24 Internal Lanes/4GB Cache/CacheCade) 12G SAS PCIe Controller | 870658-B21 |
|--------------------------------------------------------------------------------------------------|------------|

**NOTE:** SFF only, not supported on LFF chassis.

**NOTE:** Not supported on slot 3.

|                                                                                               |            |
|-----------------------------------------------------------------------------------------------|------------|
| HPE Smart Array P408e-p SR Gen10 (8 External Lanes/4GB Cache) 12G SAS PCIe Plug-in Controller | 804405-B21 |
| HPE Smart Array P408i-p SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS PCIe Plug-in Controller | 830824-B21 |

**NOTE:** Not supported on slot 3.

|                                                                                              |            |
|----------------------------------------------------------------------------------------------|------------|
| HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller | 804398-B21 |
| HPE Smart Array E208i-p SR Gen10 (8 Internal Lanes/No Cache) 12G SAS PCIe Plug-in Controller | 804394-B21 |

**NOTE:** Not supported on slot 3.

|                                                                       |            |
|-----------------------------------------------------------------------|------------|
| HPE 96W Smart Storage Battery (up to 20 Devices) with 145mm Cable Kit | P01366-B21 |
|-----------------------------------------------------------------------|------------|

**NOTE:** Supports up to 6 P-class Smart Array controllers

|                                                         |            |
|---------------------------------------------------------|------------|
| HPE Smart Storage Hybrid Capacitor with 145mm Cable Kit | P02377-B21 |
|---------------------------------------------------------|------------|

**NOTE:** Supports up to 3 P-class Smart Array controllers

### HPE Cable Options

|                                                      |            |
|------------------------------------------------------|------------|
| HPE DL360 Gen10 SFF Internal Cable Kit               | 867990-B21 |
| HPE DL3XX Gen10 Rear Serial Cable and Enablement Kit | 873770-B21 |
| HPE DL360 Gen10 P824i-p Cable Kit                    | 867992-B21 |

**NOTE:** SFF only, not supported on LFF chassis.

|                                        |            |
|----------------------------------------|------------|
| HPE DL360 Gen10 LFF Internal Cable Kit | 873869-B21 |
|----------------------------------------|------------|

**NOTE:** For additional details and cabling matrix, please see: <http://www.hpe.com/info/CablingMatrixGen10>

### Optional Software

|                                                                                             |          |
|---------------------------------------------------------------------------------------------|----------|
| HPE Smart Array SR Secure Encryption (Data at Rest Encryption/per Server Entitlement) E-LTU | Q2F26AAE |
| HPE Smart Array SR SmartCache (Single Key/Single Server) LTU                                | D7S26A   |
| HPE Smart Array SR SmartCache (Single Key/Multiple Servers) LTU                             | D7S27A   |
| HPE Smart Array SR SmartCache (Single Key/Multiple Servers) E-LTU                           | D7S27AAE |

**NOTE:** SmartCache is offered on HPE Smart Array performance RAID controllers and comes standard (no licensing is required) if the HPE Smart Array P816i-a SR Gen10 Controller is installed in the server.

## Additional Options

### HPE Storage Options

#### Emulex Fibre Channel HBAs

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter | Q0L13A |
| HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter   | Q0L14A |
| HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter | Q0L11A |
| HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter   | Q0L12A |

#### QLogic Fibre Channel HBAs

|                                                                         |        |
|-------------------------------------------------------------------------|--------|
| HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter | P9D93A |
| HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter   | P9D94A |
| HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter | P9M75A |
| HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter   | P9M76A |

#### Converged Network Adapter

|                                                                       |        |
|-----------------------------------------------------------------------|--------|
| HPE StoreFabric CN1300R 10/25Gb Dual Port Converged Network Adapter   | Q0F09A |
| HPE StoreFabric CN1200R 10GBASE-T Converged Network Adapter           | Q0F26A |
| HPE StoreFabric CN1100R Dual Port Converged Network Adapter           | QW990A |
| HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter | N3U52A |
| HPE StoreFabric CN1200E 10Gb Converged Network Adapter                | E7Y06A |
| HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter | N3U51A |

### HPE Rack Options

#### Rail Kits

|                                          |            |
|------------------------------------------|------------|
| HPE 1U Gen10 SFF Easy Install Rail Kit   | 874543-B21 |
| HPE 1U LFF Gen9 Easy Install Rail Kit    | 789388-B21 |
| HPE 1U Cable Management Arm for Rail Kit | 734811-B21 |

**NOTE:** Supports both the Easy Install and Ball Bearing Rail Kits.

|                                        |            |
|----------------------------------------|------------|
| HPE 1U Gen10 SFF Ball Bearing Rail Kit | 872252-B21 |
| HPE 1U Gen10 LFF Ball Bearing Rail Kit | 879003-B21 |

**NOTE:** HPE rail kits contain telescoping rails which allow for in-rack serviceability.

**NOTE:** Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.

#### HPE Racks

Please see the [HPE Advanced Series Racks](#) QuickSpecs for information on additional racks options and rack specifications.

Please see the [HPE Enterprise Series Racks QuickSpecs](#) for information on additional racks options and rack specifications.

## Additional Options

### HPE Power Distribution Units (PDUs)

Please see the [HPE Basic Power Distribution Units \(PDU\) QuickSpecs](#) for information on these products and their specifications.  
Please see the [HPE Metered Power Distribution Units \(PDU\) QuickSpecs](#) for information on these products and their specifications.  
Please see the [HPE Intelligent Power Distribution Unit \(PDU\) QuickSpecs](#) for information on these products and their specifications.  
Please see the [HPE Metered and Switched Power Distribution Units \(PDU\) QuickSpecs](#) for information on these products and their specifications.

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### HPE Uninterruptible Power Systems (UPS)

To learn more, please visit the [HPE Uninterruptible Power Systems \(UPS\)](#) web page.  
Please see the [HPE DirectFlow Three Phase Uninterruptible Power System QuickSpecs](#) for information on these products and their specifications.  
Please see the [HPE Line Interactive Single Phase UPS QuickSpecs](#) for information on these products and their specifications.

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### HPE USB and SD Options

#### HPE Enterprise Mainstream Flash Media Kits for Memory Cards

|                                      |            |
|--------------------------------------|------------|
| HPE 32GB microSD Flash Memory Card   | 700139-B21 |
| HPE 8GB microSD Flash Memory Card    | 726116-B21 |
| HPE 8GB microSD Flash USB Drive      | 737953-B21 |
| HPE 8GB Dual microSD Flash USB Drive | 741279-B21 |

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### HPE Support Services

#### Installation & Start-up Services

|                                            |        |
|--------------------------------------------|--------|
| HPE Install ProLiant DL3xx Service         | U4506E |
| HPE Installation and Startup DL3xx Service | U4507E |

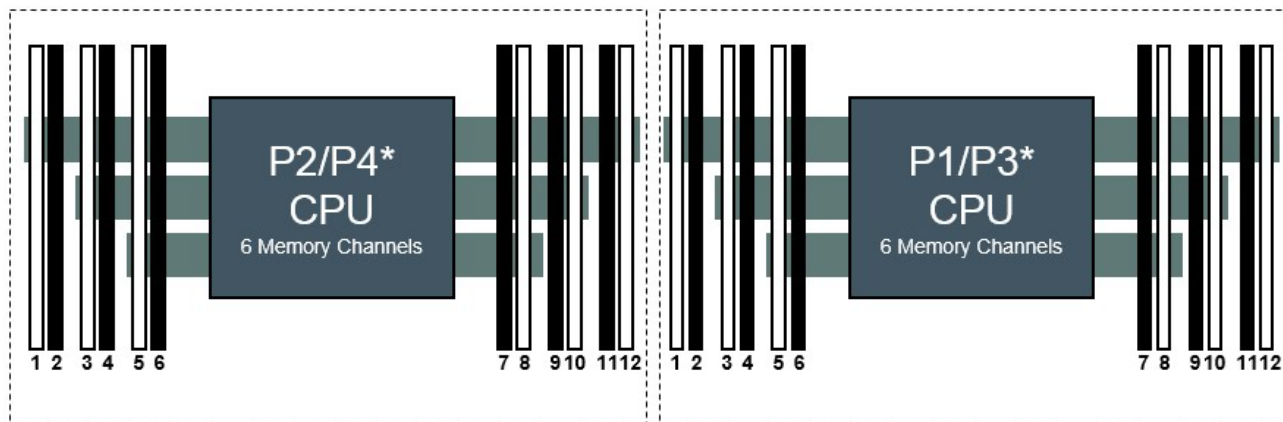
#### Proactive Care

|                                                                            |        |
|----------------------------------------------------------------------------|--------|
| HPE 3 Year Proactive Care 24x7 DL360 Gen10 Service                         | H8QF3E |
| HPE 3 Year Proactive Care 24x7 with DMR DL360 Gen10 Service                | H8QF4E |
| HPE 3 Year Proactive Care 24x7 with CDMR DL360 Gen10 Service               | H8QF5E |
| HPE 3 Year Proactive Care Call-To-Repair DL360 Gen10 Service               | H8QG2E |
| HPE 3 Year Proactive Care Call-To-Repair 24x7 with DMR DL360 Gen10 Service | H8QG3E |
| HPE 3 Year Proactive Care Call-To-Repair with CDMR DL360 Gen10 Service     | H8QG4E |

**NOTE:** For a full listing of support services available for this server, please visit <https://ssc.hpe.com/>

## Memory

### Memory Population guidelines



HPE Gen10 DL360 / DL380 / DL560\* Servers Front Server2 Slots per Channel

|          |   |   |   |   |   |   |   |   |    |    |    |    |
|----------|---|---|---|---|---|---|---|---|----|----|----|----|
| 1 DIMM   |   |   |   |   |   |   |   | 8 |    |    |    |    |
| 2 DIMMs  |   |   |   |   |   |   |   | 8 | 10 |    |    |    |
| 3 DIMMs  |   |   |   |   |   |   |   | 8 | 10 | 12 |    |    |
| 4 DIMMs  |   |   | 3 |   | 5 |   |   | 8 | 10 |    |    |    |
| 5 DIMMs  |   |   | 3 |   | 5 |   |   | 8 | 10 | 12 |    |    |
| 6 DIMMs  | 1 |   | 3 |   | 5 |   |   | 8 | 10 | 12 |    |    |
| 7 DIMMs  | 1 |   | 3 |   | 5 |   | 7 | 8 | 10 | 12 |    |    |
| 8 DIMMs  |   |   | 3 | 4 | 5 | 6 | 7 | 8 | 9  | 10 |    |    |
| 9 DIMMs  | 1 |   | 3 |   | 5 |   | 7 | 8 | 9  | 10 | 11 | 12 |
| 10 DIMMs | 1 |   | 3 | 4 | 5 | 6 | 7 | 8 | 9  | 10 |    | 12 |
| 11 DIMMs | 1 |   | 3 | 4 | 5 | 6 | 7 | 8 | 9  | 10 | 11 | 12 |
| 12 DIMMs | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9  | 10 | 11 | 12 |

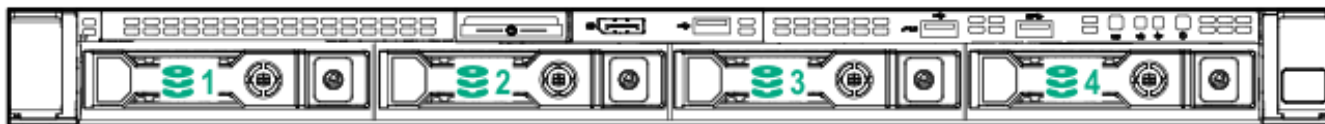
HPE ProLiant Gen10 12 slot per CPU DIMM population order

### General Memory Population Rules and Guidelines:

- Install DIMMs only if the corresponding processor is installed.
- If only one processor is installed in a two-processor system, only half of the DIMM slots are available.
- To maximize performance, it is recommended to balance the total memory capacity between all installed processors.
- When two processors are installed, balance the DIMMs across the two processors.
- White DIMM slots denote the first slot to be populated in a channel.
- Mixing of DIMM types (UDIMM, RDIMM, and LRDIMM) is not supported.
- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- The maximum memory capacity is a function of the number of DIMM slots on the platform, the largest DIMM capacity qualified on the platform, the number and model of installed processors qualified on the platform.
- For details on the HPE Server Memory Options Population Rules, visit:  
<http://www.hpe.com/docs/memory-population-rules>
- To realize the performance memory capabilities listed in this document, HPE DDR4 SmartMemory is required. For additional information, please see the [HPE DDR4 SmartMemory QuickSpecs](#).

**NOTE:** The maximum memory speed is a function of the memory type, memory configuration, and processor model. For details on the HPE Server Memory speed, visit: <https://www.hpe.com/docs/memory-speed-table>

## Storage



4 LFF device bay numbering



8 SFF + ODD device bay numbering



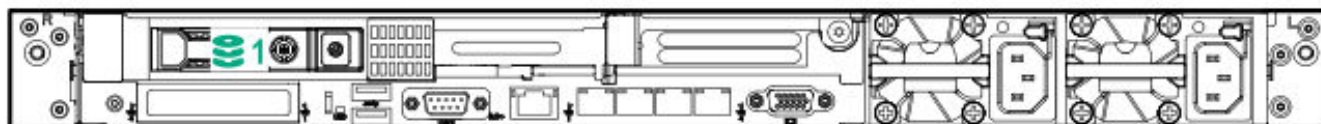
8 SFF + 2 SFF device bay numbering

| Item | Description  |
|------|--------------|
| 1    | Bays 1-8     |
| 2    | Bays 1 and 2 |



10 SFF NVMe/SAS backplane option device bay numbering

**NOTE:** When the 10SFF NVMe/SAS backplane option is installed, bays 9 and 10 ONLY support NVMe Drives. The other bays support a mix of NVMe and SAS drives



Optional rear device bay numbering

**NOTE:** The optional rear device bay supports either 1 SFF drive or 1 Dual uFF (2x M.2 drives) in an HPE SmartCarrier M.2 (SCM). When the Dual uFF is installed, the M.2 drives are recognized as 101 and 102.

## Technical Specifications

### System Unit

**Dimensions** (Height x Width x Depth)

#### SFF Drives

4.29 x 43.46 x 70.7 cm

1.69 x 17.11 x 27.83 in

#### LFF Drives

4.29 x 43.46 x 74.98 cm

1.69 x 17.11 x 29.5 in

---

### Weight (approximate)

|                      |                                                                                                                         |
|----------------------|-------------------------------------------------------------------------------------------------------------------------|
| 13.04 kg<br>28.74 lb | SFF minimum: One drive, one processor, one power supply, two heatsinks, one Smart Array controller, and five fans.      |
| 16.27 kg<br>35.86 lb | SFF maximum: 10 drives, two processors, two power supplies, two heatsinks, one Smart Array controller and seven fans.   |
| 13.77 kg<br>30.36 lb | LFF minimum: one drive, one processor, one power supply, two heatsinks, one Smart Array controller and five fans.       |
| 16.78 kg<br>37 lb    | LFF maximum: Four drives, two processors, two power supplies, two heatsinks, one Smart Array controller and seven fans. |

---

### Input Requirements (per power supply)

#### Rated Line Voltage

- For 1600W (Platinum): 200-240 VAC
- For 800W (Titanium) Power Supply: 200-240 VAC
- For 800W (Platinum): 100-240 VAC
- For 800W (Universal) Power Supply: 200-277 VAC
- For 800W (-48VDC): -40 Vdc to -72 Vdc
- 500W (Platinum) Power Supply: 100-240 VAC

---

### BTU Rating

#### Maximum

- For 1600W Power Supply: 5918 BTU/hr (at 200 VAC), 5888 BTU/hr (at 220 VAC), 5884 BTU/hr (at 240 VAC)
  - For 800W (Titanium) Power Supply: 2905 BTU/hr (at 200 VAC), 2899 BTU/hr (at 220 VAC), 2893 BTU/hr (at 240 VAC)
  - For 800W (Platinum) Power Supply: 3067 BTU/hr (at 100 VAC), 2958 BTU/hr (at 200 VAC), 2949 BTU/hr (at 240 VAC)
  - For 800W (Universal) Power Supply: 2964 BTU/hr (at 200 VAC), 2951 BTU/hr (at 230 VAC), 2936 BTU/hr (at 277 VAC)
  - For 800W (-48Vdc) Power Supply: 2983 BTU/hr (at -40 Vdc), 2951 BTU/hr (at -48Vdc), 2912 BTU/hr (at -72Vdc)
  - For 500W (Platinum) Power Supply: 1902 BTU/hr (at 100 VAC), 1840 BTU/hr (at 200 VAC), 1832 BTU/hr (at 240 VAC)
-



## Technical Specifications

### Power Supply Output (per power supply)

#### Rated Steady-State Power

- For 1600W Power Supply: 1600W (at 240 VAC), 1600W (at 240 VDC) for China only
- For 800W (Titanium) Power Supply: 800W (at 200 VAC), 800W (at 240 VAC), 800W (at 240 VDC) for China only
- For 800W (Platinum) Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VDC) input for China only
- For 800W (Universal) Power Supply: 800W (at 200 VAC), 800W (at 277 VAC)
- For 800W (-48VDC) Power Supply: 800W (at -40 Vdc), 800W (at -72Vdc)
- For 500W (Platinum) Power Supply: 500W (at 100 VAC), 500W (at 240 VAC), 500W (at 240 VDC) input for China only

#### Maximum Peak Power

- For 1600W Power Supply: 1600W (at 240 VAC), 1600W (at 240 VDC) for China only
- For 800W (Titanium) Power Supply: 800W (at 200 VAC), 800W (at 240 VAC), 800W (at 240 VDC) for China only
- For 800W (Platinum) Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VDC) input for China only
- For 800W (Universal) Power Supply: 800W (at 200 VAC), 800W (at 277 VAC)
- For 800W (-48VDC) Power Supply: 800W (at -40 Vdc), 800W (at -72Vdc)
- For 500W (Platinum) Power Supply: 500W (at 100 VAC), 500W (at 240 VAC), 500W (at 240 VDC) input for China only

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### System Inlet Temperature

#### Standard Operating Support

10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed.

System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).

For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL:

<http://www.hpe.com/servers/ashrae>

#### Extended Ambient Operating Support

For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL:

<http://www.hpe.com/servers/ashrae>

System performance may be reduced if operating in the extended ambient operating range or with a fan fault.

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### Relative Humidity (non-condensing)

#### Operating

8% to 90% - Relative humidity (Rh), 28°C maximum wet bulb temperature, non-condensing.

#### Non-operating

5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.

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### Altitude

#### Operating

3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).

#### Non-operating

9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).

## Technical Specifications

### Acoustic Noise

Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109). The listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels. Please have your HPE representative provide information from the HPE EMESC website for further technical details regarding the configurations listed below.

| Configuration SKU | Entry  | Base   | Performance |
|-------------------|--------|--------|-------------|
| <b>Idle</b>       |        |        |             |
| LWAd              | 5.1 B  | 5.1 B  | 5.2 B       |
| LpAm              | 35 dBA | 35 dBA | 36 dBA      |
| <b>Operating</b>  |        |        |             |
| LWAd              | 5.3 B  | 5.2 B  | 5.9 B       |
| LpAm              | 36 dBA | 38 dBA | 45 dBA      |

**NOTE:** Acoustics levels presented here are generated by the test configuration only. Acoustics levels will vary depending on system configuration. Values are subject to change without notification and are for reference only.

### Emissions Classification (EMC)

To view the regulatory information for your product, view the Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products, available at the Hewlett Packard Enterprise Support Center:

<http://www.hpe.com/support/Safety-Compliance-EnterpriseProducts>

### HPE Smart Array

For latest information on **HPE Smart Array Gen10 Controllers for HPE ProLiant DL, ML and Apollo Servers**, please refer to their QuickSpecs. (E208i-a,E208i-p,E208e-p,P408i-a,P408i-p,P408e-p,P816i-a)

### Environment-friendly Products and Approach - End-of-life Management and Recycling

Hewlett Packard Enterprise offers **end-of-life product return, trade-in, and recycling programs** in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the **Hewlett Packard Enterprise web site**. These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

## Summary of Changes

| Date        | Version History | Action  | Description of Change                                                                                                                                                                                                                                                                                                                |
|-------------|-----------------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 01-Jul-2019 | Version 24      | Changed | The 5218N wattage has changed from 105 to 110W TDP.<br>The U.S. version of QuickSpecs is no longer being updated, please reference the Worldwide QuickSpecs for latest information.                                                                                                                                                  |
| 03-Jun-2019 | Version 23      | Changed | Standard Features, SMB Models, Pre-configured Models, China Specific, Configuration Information, Additional Options and Core Options sections were updated.<br>SKUs were added.<br>Obsolete SKUs were removed                                                                                                                        |
| 15-Apr-2019 | Version 22      | Changed | Overview, Standard Features, SMB Models, Pre-configured Models, China Specific, Configuration Information and Core Options sections were updated.                                                                                                                                                                                    |
| 02-Apr-2019 | Version 21      | Changed | Overview, Standard Features and Pre-configured Models sections were updated.                                                                                                                                                                                                                                                         |
| 04-Feb-2019 | Version 20      | Changed | Overview, Standard Features, Configuration Information, Core Options and Optional Features sections were updated.                                                                                                                                                                                                                    |
| 03-Dec-2018 | Version 19      | Changed | Overview, Standard Features, Pre-configured Models, Core Options and Storage sections were Updated.                                                                                                                                                                                                                                  |
| 15-Oct-2018 | Version 18      | Changed | SKUs descriptions were updated in Core Options section<br>Obsolete SKUs were removed from Core Options section,                                                                                                                                                                                                                      |
| 01-Oct-2018 | Version 17      | Changed | Overview, Standard Features, Configuration Information, Core Options, Additional Options, and Memory sections were updated.<br>SKU descriptions were updated.                                                                                                                                                                        |
| 13-Aug-2018 | Version 16      | Changed | Maximum Storage and Additional Options were revised.                                                                                                                                                                                                                                                                                 |
| 06-Aug-2018 | Version 15      | Changed | Added new AMD and NVIDIA Graphics card options.<br>Added new Smart Array P824i-p MR Gen10 (24 Internal Lanes/4GB Cache/CacheCade) 12G SAS PCIe Controller.<br>Added new Solid State Drives offering.<br>Pre-Configured Models, Core Options, and Additional Options were revised.<br>Obsolete SKUs were removed from the QuickSpecs. |
| 11-Jun-2018 | Version 14      | Changed | Smart Buy Models section for the NA version was revised.                                                                                                                                                                                                                                                                             |
| 04-Jun-2018 | Version 13      | Changed | New SSD offering was added to the HPE Drivers section.<br>Core Options, Additional Options, and Memory were revised.<br>Obsolete SKUs were removed from the QuickSpecs.                                                                                                                                                              |
| 07-May-2018 | Version 12      | Changed | New SMB models offering was added.<br>Riser Information and power supply section were revised.<br>Obsolete SKUs were removed from the QuickSpecs.                                                                                                                                                                                    |
| 02-Apr-2018 | Version 11      | Changed | Standard Features, Core Options and Additional Options were revised.<br>Obsolete SKUs were removed from the QuickSpecs.                                                                                                                                                                                                              |
| 05-Mar-2018 | Version 10      | Removed | Obsolete SKUs were removed from the QuickSpecs.                                                                                                                                                                                                                                                                                      |
| 05-Feb-2018 | Version 9       | Added   | Added new SATA SSDs, NVMe drives and PCIe accelerator cards.                                                                                                                                                                                                                                                                         |
| 18-Dec-2017 | Version 8       | Changed | Network controller under Configuration Information – Factory Integrated Models section was revised.                                                                                                                                                                                                                                  |
| 04-Dec-2017 | Version 7       | Changed | Added new Entry level WW Model-1 sku.<br>HPE Sepcific IST Processor offering Gold 6143 and Platinum 8165 bins were added.<br>Added new High capacity 12TB LFF drives and Large capacity 15.3TB SSDs.<br>Standard Features, Pre-configured Models, Core Options, Additional Options, Memory, and Acoustic Noise were revised.         |
| 23-Oct-2017 | Version 6       | Changed | Memory speed table was updated to display the 61XX processors running at 2666MT/s.                                                                                                                                                                                                                                                   |

## Summary of Changes

|             |           |         |                                                                                                                                                                                                                                                  |
|-------------|-----------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16-Oct-2017 | Version 5 | Changed | 128GB Memory was added Riser table was added under Core Options. Platform Information, Processors table under Standard Features, FlexibleLOM Adapters, GPU table under Core Options, HPE Storage Controllers, and Rail Kits were revised.        |
| 25-Sep-2017 | Version 4 | Changed | New Gold Processors were added.Added new Hard Drive and SSD offering. GPU information table was added. Platform Information, Core Options, Additional Options, and Storage section were revised. Obsolete SKUs were removed from the QuickSpecs. |
| 14-Aug-2017 | Version 3 | Changed | Smart Buy Models section was revised (NA version only).                                                                                                                                                                                          |
| 07-Aug-2017 | Version 2 | Changed | Added new Solid State Drives offering to the HPE Drives section. Added Support Services under Additional Options. Platform Information, Optional Features, Core Options, Additional Options, Memory, and Storage section were revised.           |
| 11-Jul-2017 | Version 1 | New     | New QuickSpecs.                                                                                                                                                                                                                                  |



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