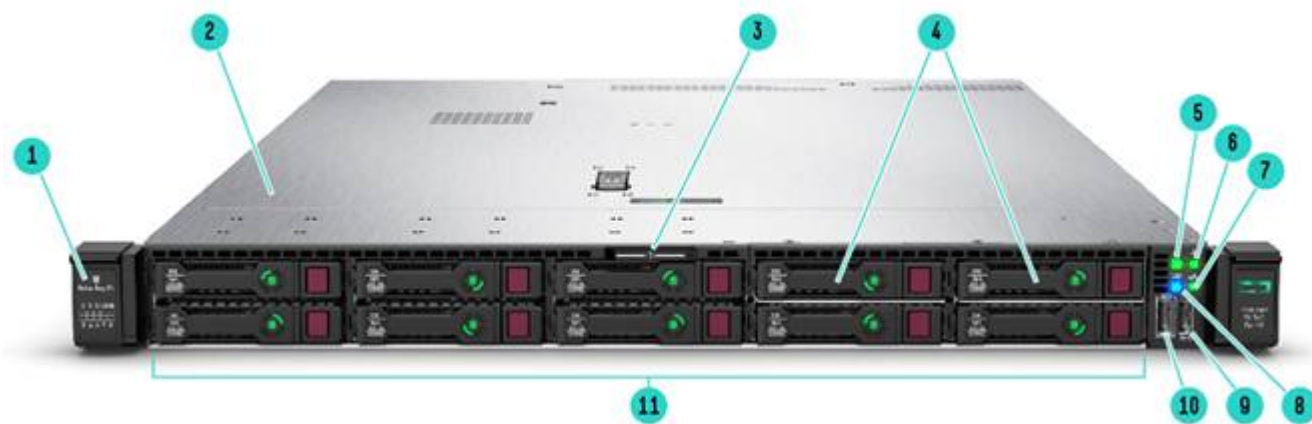


Overview

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 powerful 2P HPE ProLiant DL360 Gen10 is redefining dense compute by delivering security, agility and unmatched expandability businesses want all packed in a dense 1U rack design.

The HPE ProLiant DL360 Gen10 Server supports the Intel® Xeon® Processor Scalable Family with up to 28 cores, plus 2666 MT/s HPE DDR4 SmartMemory supporting up to 3.0 TB max. With the added performance that 12 NVDIMMs and 10 NVMe brings, 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

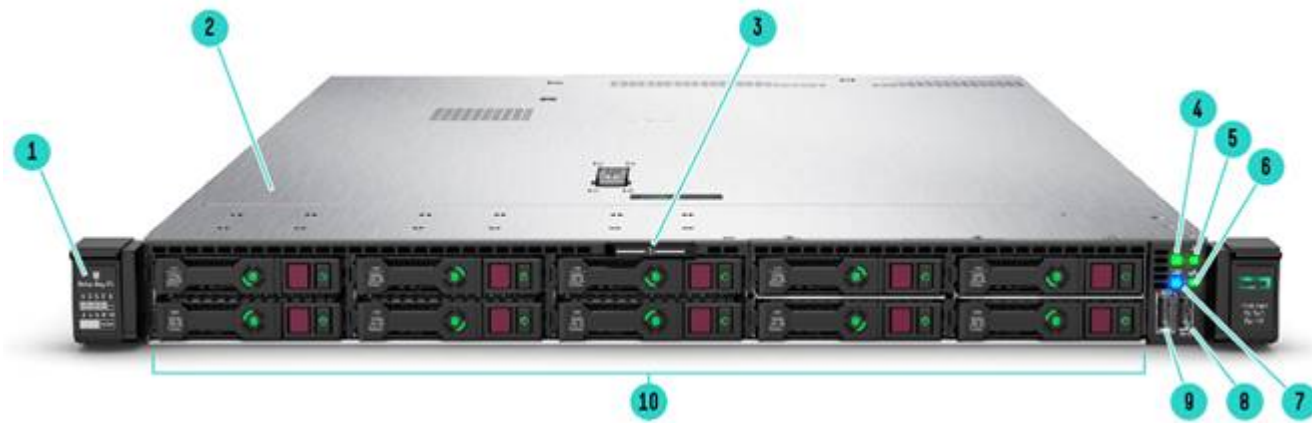
- | | |
|---|---|
| 1. Drive support label | 5. Power On/Standby button and system power LED |
| 2. Quick removal access panel | 6. Health LED |
| 3. Serial no. label pull tab | 7. NIC status LED |
| 4. Universal Media Bay Options: | 8. UID button/LED |
| Option shown: +2 SFF SAS/SATA (total 10SFF) |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

NOTE: Other options not shown.

NOTE: New! 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



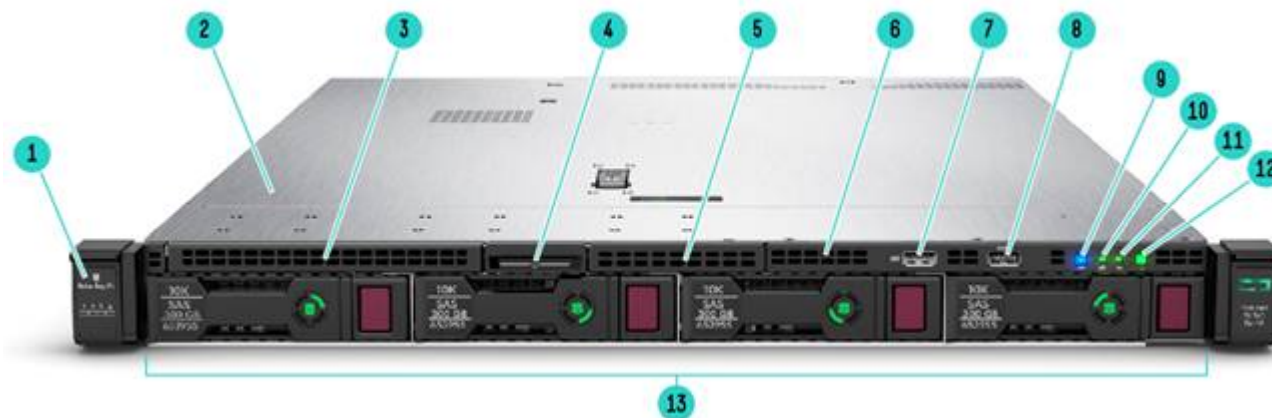
Premium 10SFF NVMe Front View

- | | |
|---|---|
| 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 + 2 NVMe |

NOTE: Other options not shown.

NOTE: New! 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).

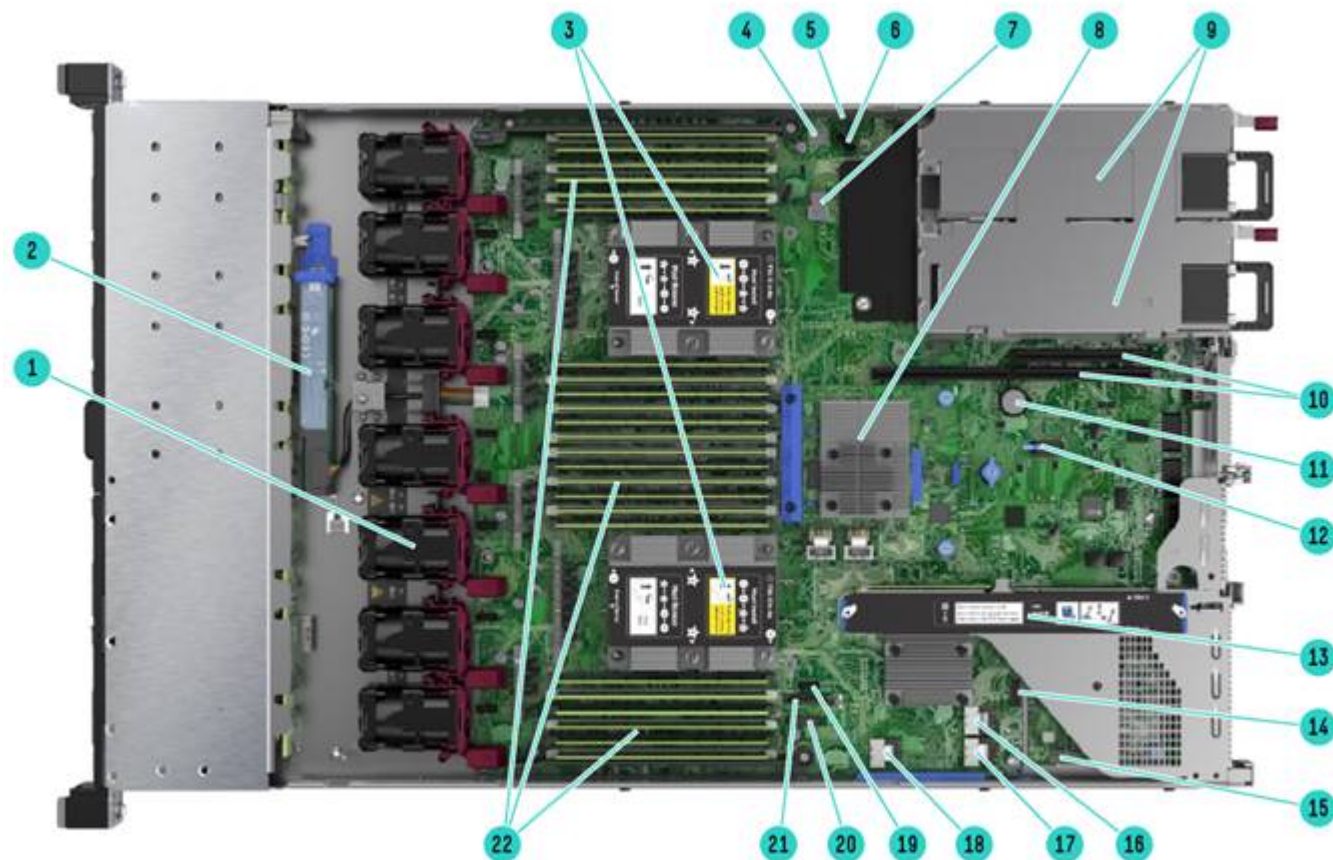


4 LFF Front View - Standard 4 LFF shown

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

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

Overview

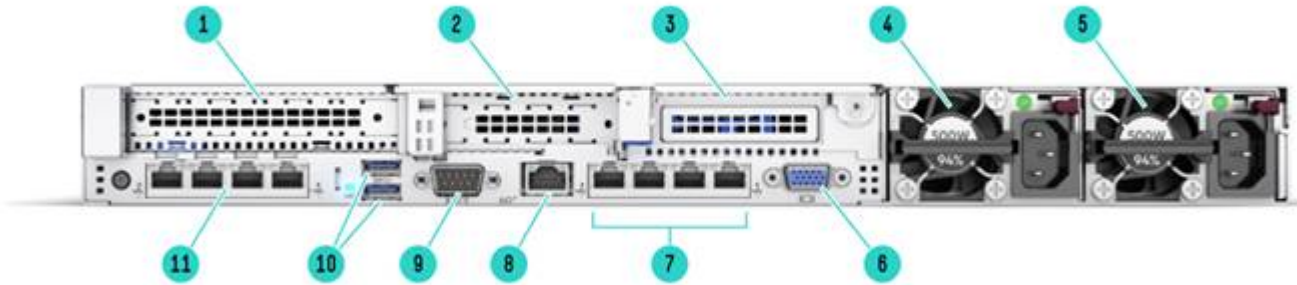


Internal View - Standard for all DL360 Gen10

- | | |
|---|---|
| <ol style="list-style-type: none"> 1. For 8 SFF or 4 LFF - Standard single rotor hot plug fans <ul style="list-style-type: none"> - 1 CPU - 5 standard fans - 2 CPUs - 7 standard fans <p>*Option: High Performance fans</p> <p>NOTE: *For 10 NVMe chassis - 7 High Performance Fans will be shipped for 1 or 2 processors.</p> 2. Option: Smart Storage Battery 3. Up to 2 processors (shown with standard heat sinks) 4. MicroSD card slot (Dual Micro-SD option available) 5. Option: Chassis Intrusion Detection 6. Hard Drive backplane power connector 7. Dual internal USB 3.0 connector 8. Smart Array Controller (Type -a shown) 9. Up to 2 Power Supplies for redundant power 10. Secondary (CPU2) PCIe 3.0 riser <ul style="list-style-type: none"> Option: Low Profile x16 or *Option: Full Height x16 (Lose slot 2 on Primary riser) | <ol style="list-style-type: none"> 11. System Battery 12. Optional: TPM 2.0 13. Primary (CPU1) PCIe 3.0 riser <ul style="list-style-type: none"> Standard: GPU power connector + 1x 16 and 1x 8 Optional: 2 SATA M.2 + 2x 16 *Optional: 2x 4 NVMe + 1x 16 and 1x 8 <p>NOTE: *Only available on 8 SFF.</p> 14. Optional: Front Display port / USB 2.0 15. FlexibleLOM (supports various NICs up to 25GbE) 16. x4 SATA port 1 17. x4 SATA port 2 18. x2 SATA port 3 19. x1 SATA port 4 20. Optical / SATA port 5 21. Front Power USB 3.0 connector 22. DDR4 DIMM slots <ul style="list-style-type: none"> (Fully populated 24 DIMMs shown) |
|---|---|

Overview

NOTE: *For 10 NVMe chassis - Secondary Riser is not available due to 10 x4 NVMe riser for PCIe direct attached.



Rear View - Standard for all DL360 Gen10

- | | |
|---|--|
| <ol style="list-style-type: none"> 1. Slot 1 PCIe 3.0
Option: Rear Drive +1 SFF or 1 uFF SSD (2x M.2 cartridges) 2. Slot 2 PCIe 3.0 3. Option: Slot 3 PCIe 3.0 (Requires 2nd processor) 4. Power Supply 2 5. Power Supply 1 | <ol style="list-style-type: none"> 6. VGA port 7. Embedded 4x 1GbE Adapter 8. iLO Management Port 9. Option: Serial Port 10. USB 3.0 Ports 11. Option: FlexibleLOM (Shown: 4x 1GbE) <p>NOTE: Supports Various NICs up to 25GbE.</p> |
|---|--|

What's New

- Smart Array P824i-p MR Gen10 (24 Internal Lanes/4GB Cache/CacheCade) 12G SAS PCIe Controller
- 240GB & 480GB SATA MU M.2 SFF SCM DS SSDs
- New SMB focused offers regionally released as "Smart Buy Express" in the U.S. and Canada, "Top Value" in Europe, and "Intelligent Buy" in Asia Pacific and Japan
- HPE Specific Intelligent Systems Tuning Gold 6143 and Platinum 8165 Processors
- New AMD and NVIDIA Graphics card options

Platform Information

Platform Information

Form Factor

1U rack

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

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:

1 or 2 CPUs - Includes 7 high performance fans as standard

Standard Features

Standard Features

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

NOTE: For more information regarding Intel Xeon processors, please see the following

<http://www.intel.com/xeon>.

NOTE: This table covers the public Intel offering only.

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

NOTE: Platinum Processors:

- 2 and 4 socket capable, 2S - 2UPI, 4S - 3UPI, 8S - 3UPI @ 10.4 GT/s.
- 6-Channel DDR4 @ 2666 MT/s.
- 768 GB max memory capacity (1.5 TB on select skus).
- Intel Turbo Boost Technology, Intel Hyper-Threading Technology Intel AVX-512 (2x 512-bit FMA).
- 48 lanes PCIe 3.0, advanced RAS.

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

Standard Features

Gold 5118 Processor	2.3 GHz	12	16.50 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

NOTE: Gold Processors:

- 2 and 4 socket capable, 2S - 2UPI, 4S - 3UPI @ 10.4 GT/s.
- 6-Channel DDR4 @ 2400 MT/s (SKU 5122 - supports 2666 MT/s).
- 768 GB max memory capacity (1.5 TB on select skus).
- 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.

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

NOTE: Silver Processors:

- 2 socket capable, 2S - 2UPI @ 9.6 GT/s.
- 6-Channel DDR4 @ 2400 MT/s, 768 GB max memory capacity.
- Intel Turbo Boost Technology, Intel Hyper-Threading Technology, Intel AVX-512 (1x 512-bit FMA).
- 48 lanes PCIe 3.0, standard RAS.

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

NOTE: Bronze Processors:

- 2 socket capable, 2S - 2UPI @ 9.6 GT/s.
- 6-Channel DDR4 @ 2133 MT/s, 768 GB max memory capacity.
- Intel AVX-512 (1x 512-bit FMA).
- 48 lanes PCIe 3.0, standard RAS.

Chipset

Intel C621 Chipset

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

<http://www.intel.com/products/server/chipsets/>.

On System Management Chipset

HPE iLO 5 ASIC

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

Memory

Type		HPE DDR4 SmartMemory Registered (RDIMM), Load Reduced (LRDIMM)
DIMM Slots Available	24	12 DIMM slots per processor, 6 channels per processor, 2 DIMMs per channel
Maximum capacity (LRDIMM)	3.0 TB	24 x 128 GB LRDIMM @ 2666 MT/s
Maximum capacity (RDIMM)	768 GB	24 x 32 GB RDIMM @ 2666 MT/s

Standard Features

Maximum capacity (NVDIMM) 192 GB 12 x 16 GB NVDIMM @ 2666 MT/s

NOTE: NVDIMMs can be mixed with RDIMMs only.

NOTE: Maximum memory per socket is dependent on processor selection. Processors supporting 1.5 TB per CPU is indicated by the "M"? in the processor model names (i.e. 8160M).

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

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

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

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 spare rank.

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

Expansion Slots

Primary GPU Riser	Expansion Slots #	Technology	Bus Width	Connector Width	Processor	Slot Fa
	1	PCIe 3.0	x16	x16	CPU1	Full-h 3/4 len to 9
	2	PCIe 3.0	x8	x8	CPU1	Low I
Primary SATA M.2 Riser	Expansion Slots #	Technology	Bus Width	Connector Width	Processor	Slot Fa
	1	PCIe 3.0	x16	x16	CPU 1	Full-h 3/4 len to 9
	2	PCIe 3.0	x16	x16	CPU 1	Low I
Primary NVMe Riser	Expansion Slots #	Technology	Bus Width	Connector Width	Processor	Slot Fa
	1	PCIe 3.0	x16	x16	CPU 1	Full-h 3/4 len to 9
	2	PCIe 3.0	x8	x8	CPU 1	Low I
Secondary Riser*	Expansion Slots #	Technology	Bus Width	Connector Width	Processor	Slot Fa
	3	PCIe 3.0	x16	x16	CPU 2	Low Pi Full-h 3/4 len to 9

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

Standard Features

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 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 to volume. For more information visit:

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

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

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 please order the LH controller (low profile heatsink) to allow GPU to fit in the chassis

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

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

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	40 TB	10 x 4 TB NVMe
Hot Plug LFF SAS HDD	48 TB	4 x 12 TB
Hot Plug LFF SATA HDD	48 TB	4 x 12 TB
Hot Plug LFF SAS SSD	3.2 TB	4 x 800 GB
Hot Plug LFF SATA SSD	6.4 TB	4 x 1.6 TB

Standard Features

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, 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](#).

Interfaces

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

Operating Systems and Virtualization Software

Windows Server 2012 R2 (Most Recent Version)

Windows Server 2016 (Most Recent Version)

VMware ESXi 6.0 U3

VMware ESXi 6.5 and U1 upon release

Red Hat Enterprise Linux (RHEL) 6.9 and 7.3

Standard Features

SUSE Linux Enterprise Server (SLES) 11 SP4 and 12 SP2

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>

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>.

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

HPE Server UEFI/Legacy ROM

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

Standard Features

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

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.

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>.

UEFI

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

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>

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>

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>.

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>.

Standard Features

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

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>.

HPE iLO Mobile Application

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

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>.

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>.

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>.

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 built-in 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>.

Standard Features

Security

- UEFI Secure Boot and Secure Start support
- Immutable Silicon Root of Trust
- FIPS 140-2 validation (iLO 5 certification in progress)
- Common Criteria certification (iLO 5 certification in progress)
- 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 including a New iLO Advanced Premium Security License
- 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 HPE 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>.

HPE iLO Advanced Premium Security Edition

HPE iLO Advanced Premium Security Edition for iLO 5 includes iLO Advanced License plus high-end security modes, unique security capabilities, like Automatic FW recovery; Runtime FW verification, and Secure erase. Learn more about HPE iLO Advanced Premium Security Edition at: <http://www.hpe.com/servers/ilopremium>.

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>.

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>.

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.

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

Optional Features

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](#).

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#>

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.

Connect your devices:

Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Achieve up to 77%¹ reduction in down time, near 100%² 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.

1- IDC 2 - HP CSC reports 2014 - 2015

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

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>

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>

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

Service and Support

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.

Parts and Materials

HPE 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 QuickSpecs, 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 HPE due to malfunction.

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>

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).

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>

HPE GreenLake Flex Capacity

With HPE GreenLake Flex Capacity, you get the speed, scalability, and economics of the public cloud in the

Service and Support

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.

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.

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 MSAXxx3PAR suite, XP, rackable tape libraries and configurable network switches.

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.

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>

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 HPE experts, access support resources or collaborate with peers.

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

HPE's 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](#).

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.

	Low Model	Entry Model	Base Model
SKU Number	P01880-B21	867961-B21	867962-B21
Model Name	HPE ProLiant DL360 Gen10 3104 1.7GHz 6-core 1P 8GB-R S100i 4LFF 500W PS Base Server	HPE ProLiant DL360 Gen10 3106 1.7GHz 8C 85W 1P 16G- 2R S100i 8SFF 1x500W Entry Server	HPE ProLiant DL360 Gen10 4114 2.2GHz 10C 85W 1P 16G-2R P408i-a 8SFF 1x500W Base Server
Chassis	4LFF	8SFF	8SFF
Processor	3104 (6-Core, 1.7 GHz, 85W)	3106 (8-Core, 1.7 GHz, 85W)	4114 (10-Core, 2.2 GHz, 85W)
Number of Processors	One processor With standard heatsink	One processor With standard heatsink	One processor With standard heatsink
Memory	8 GB RDIMM 2R 2666 MT/s (1x 8 GB) NOTE: Runs at 2133 MT/s due to processor limitation.	16 GB RDIMM 2R 2666 MT/s (1x 16 GB) NOTE: Runs at 2133 MT/s due to processor limitation.	16 GB RDIMM 2R 2666 MT/s (1x 16 GB) NOTE: Runs at 2400 MT/s due to processor limitation.
Network Controller	Embedded 4-port 1GbE	Embedded 4-port 1GbE	Embedded 4-port 1GbE
Storage Controller	Embedded 14-port S100i NOTE: SATA only.	Embedded 14-port S100i NOTE: SATA only.	P408i-a/2GB
Hard Drive	None included	None included	None included
Optical Drive	None included	None included	None included
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	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

	Performance Model	High Performance Models	
SKU Number	867963-B21	867964-B21	879991-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	HPE ProLiant DL360 Gen10 6130 2.1GHz 16C 125W 2P 64G-2R P408i-a Premium 10NVMe 2x800W High Perf Svr
Chassis	8SFF	Premium 10 SFF NVMe	Premium 10 SFF NVMe
Processor	5118 (12-Core, 2.3 GHz, 105W)	6130 (16-Core, 2.1 GHz, 125W)	6130 (16-Core, 2.1 GHz, 125W)
Number of Processors	Two processors With standard heatsink	Two processors With High Performance heatsink	Two processors With High Performance heatsink
Memory	32 GB RDIMM 2R 2666 MT/s (2x 16 GB) NOTE: Runs at 2400 MT/s due to processor limitation.	64 GB RDIMM 2R 2666 MT/s (2x 32 GB)	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	Embedded 4-port 1GbE + 10/25 GbE 2P 631FLR-SFP28
Storage Controller	P408i-a/2GB	P408i-a/2 GB	P408i-a/2 GB
Hard Drive	None included	None included	None included
Optical Drive	None included	None included	None included
PCIe Slots	3 PCIe: 1 x16 FH / 1 x8 LP + 1 x16 FH	2 PCIe: 1 x16 FH / 1 x8 LP	2 PCIe: 1 x16 FH / 1 x8 LP
Power Supply	2x 800W	2x 800W	2x 800W
Fans	7 - Standard	7 - High Performance	7 - High Performance
Management Rail Kit	HPE iLO Advanced	HPE iLO Advanced SFF Easy Install w/o CMA	HPE iLO Advanced
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.

Country Code	xx1 = B21	Worldwide
Key	xx1 = 291	Japan
	xx1 = AA1	PRC

NOTE: The -B21 WW SKU is to be ordered in all countries other than Japan or PRC.

SMB Models

1. New SMB focused offers regionally released as "Smart Buy Express"? in the U.S. and Canada, "Top Value"? in Europe, and "Intelligent Buy"? in Asia Pacific and Japan"?
2. SMB Models ship with the configurations below. Options can be selected from the Core or Additional options section of this QuickSpecs.
3. Hewlett Packard Enterprise does not provide factory integration of options into SMB Models. Any additional options purchased will be shipped separately and would need to be field integrated.
4. If you desire to custom configure an SMB Model please consult your preferred reseller.

SMB Models

SKU Number	P06453-xx1	P06454-xx1	P06455-xx1
Model Name	HPE ProLiant DL360 Gen10 4110 2.1GHz 8-core 1P 16GB-R P408i-a 8SFF 500W PS Performance Server	HPE ProLiant DL360 Gen10 5118 2.3GHz 12-core 1P 32GB-R P408i-a 8SFF 800W RPS Performance Server	HPE ProLiant DL360 Gen10 6130 2.1GHz 16-core 1P 64GB-R P408i-a 8SFF 800W RPS Performance Server
Chassis	8SFF	8SFF	8SFF
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 With standard heatsink	One processor With standard heatsink	One processor With standard heatsink
Memory	16 GB RDIMM 2R 2666 MT/s (1x 16 GB) NOTE: Runs at 2400 MT/s due to processor limitation.	32 GB RDIMM 2R 2666 MT/s (1x 32 GB) NOTE: Runs at 2400 MT/s due to processor limitation.	64 GB RDIMM 2R 2666 MT/s (2x 32 GB) NOTE: Runs at 2666 MT/s
Network Controller	HPE 1Gb Ethernet 4-Port 331i Adapter	HPE 1Gb Ethernet 4-Port 331i Adapter	HPE 1Gb Ethernet 4-Port 331i Adapter
Storage Controller	P408i-a/2GB with Smart Storage Battery	P408i-a/2GB with Smart Storage Battery	P408i-a/2GB with Smart Storage Battery
Hard Drive	None included	None included	None included
Optical Drive	None included	None included	None included
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 Rail Kit	HPE iLO 5	HPE iLO 5 SFF Easy Install w/o CMA	HPE iLO 5
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 SMB models.

SMB Models

SMB Solution Models

SKU Number	P05520-xx1
Model Name	HPE ProLiant DL360 Gen10 4110 2.1GHz 8-core 1P 16GB-R P408i-a 8SFF 500W RPS Solution Server
Chassis	8SFF
Processor	4110 (8 core, 2.1 GHz, 85W)
Number of Processors	One processor With standard heatsink
Memory	16 GB RDIMM 2R 2666 MT/s (1x 16 GB) NOTE: Runs at 2400 MT/s due to processor limitation.
Network Controller	HPE 1Gb Ethernet 4-Port 331i Adapter
Storage Controller	P408i-a/2GB with Smart Storage Battery
Hard Drive	None included
Optical Drive	None included
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 ClearOS/VM Installer (USB)
Operating System	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 http://www.hpe.com/servers/clearos.
Warranty	3-year parts, 3-year labor, 3-year onsite support with next business day response. NOTE: UEFI is the standard default for all SMB models.

Country Code	xx1 = B21	Worldwide
Key	xx1 = 291	Japan

NOTE: The -B21 WW SMB SKU is to be ordered in all countries other than Japan or PRC.

Configuration Information - Factory Integrated Models

Recommended

Offering the best combination of performance, value and availability, Recommended Options have been selected by HPE experts to provide the right technology for a range of workloads and market segments. Fully integrated into the ProLiant management and security experience, Recommended Options provide the best fit with timely availability.

Extended

Extended Options provide an extended catalog of products tailored for customers in specific markets or with specific workloads, requiring the utmost in performance or value. Fully integrated into the ProLiant management and security experience, Extended Options represent great value and performance but typically have a longer lead-time.

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	867958-B21	867959-B21	867960-B21
Number			
TAA SKU*	875965-B21	875966-B21	875967-B21
Processor	Not included as standard		
DIMM Slots	24-DIMM slots (12 can be used for NVDIMMs)		
Storage Controller	Embedded SW RAID (S100i) with 14 SATA ports		
PCIe	Optional: Choice of HPE modular Smart Array and PCIe plug-in controller		
Drive Cage - included	2 PCIe slots (1 x16 FH / 1 x8 LP) Optional: 1 x16 FH or LP	2 PCIe slots (1 x16 FH / 1 x8 LP) Optional: 1 x16 FH or LP	2 PCIe slots (1 x16 FH / 1 x8 LP)
Network Controller	HPE 1Gb Ethernet 4-Port 331i Adapter plus optional HPE FlexibleLOM or stand up card		
Fans	1 CPU - 5 Standard Fans 2 CPU - 7 Standard Fans Optional: High Performance Fans	1 CPU - 5 Standard Fans 2 CPU - 7 Standard Fans Optional: High Performance Fans	10 NVMe - SAS/SATA/NVME Optional: 1 Dual uFF (2x M.2 cartridges)
Management	HPE iLO with Intelligent Provisioning (standard) Optional: iLO Advance and OneView		

Configuration Information - Factory Integrated Models

USB	Front: 1 USB 3.0 + iLO service port Rear: 2 USB 3.0 Internal: 2 USB 3.0 Optional: 1 USB 2.0 (lose iLO serv. Port)	Front: 1 USB 3.0 + iLO service port Rear: 2 USB 3.0 Internal: 2 USB 3.0
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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: *TAA chassis are only orderable in North America and Canada.

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 876099-L21 then for second processor, select 876099-B21.

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 Performane fans regardless of 1 or 2 processors.

NOTE: Maximum memory capacity per processor is dependent on processor models. All processors support up to 768 GB max memory per processor except "M"? model processors will support up to 1.5 TB max memory per processor.

NOTE: Mixing of 2 different processor models are NOT allowed.

NOTE: DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

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

Processor Option Kits

Required Processor

Intel Xeon-Platinum - Extended

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

NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8180 (2.5GHz/28-core/205W) FIO Processor Kit (Extended) 867988-L21

NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8176 (2.1GHz/28-core/165W) FIO Processor Kit (Extended) 870982-L21

NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8170 (2.1GHz/26-core/165W) FIO Processor Kit (Extended) 870980-L21

NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8168 (2.7GHz/24-core/205W) FIO Processor Kit (Extended) 870978-L21

NOTE: Ships with High Performance Heatsink.

Configuration Information - Factory Integrated Models

HPE DL360 Gen10 Intel Xeon-Platinum 8165 (2.3GHz/24-core/205W) FIO Processor Kit (Extended) 879121-L21

NOTE: Ships with Performance Heatsink.

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) FIO Processor Kit (Extended) 870976-L21

NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8160M (2.1GHz/24-core/150W) FIO Processor Kit (Extended) 876093-L21

NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8160 (2.1GHz/24-core/150W) FIO Processor Kit (Extended) 870974-L21

NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8158 (3.0GHz/12-core/150W) FIO Processor Kit (Extended) 874455-L21

NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8156 (3.6GHz/4-core/105W) FIO Processor Kit (Extended) 874452-L21

NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8153 (2.0GHz/16-core/125W) FIO Processor Kit (Extended) 870972-L21

Intel Xeon-Gold - Recommended

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

Configuration Information - Factory Integrated Models

NOTE: Ships with Performance Heatsink.

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 (Recommended) 860669-L21

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

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

NOTE: Ships with High Performance Heatsink.

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

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

NOTE: Ships with High Performance Heatsink.

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

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

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

Intel Xeon-Gold - Extended

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

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

NOTE: Ships with High Performance Heatsink.

Intel Xeon-Silver - Recommended

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

Configuration Information - Factory Integrated Models

HPE DL360 Gen10 Intel Xeon-Silver 4112 (2.6GHz/4-core/85W) FIO Processor Kit (Recommended)	860659-L21
HPE DL360 Gen10 Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) FIO Processor Kit (Recommended)	860653-L21
HPE DL360 Gen10 Intel Xeon-Silver 4108 (1.8GHz/8-core/85W) FIO Processor Kit (Recommended)	860655-L21

Intel Xeon-Silver - Extended

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

HPE DL360 Gen10 Intel Xeon-Bronze 3106 (1.7GHz/8-core/85W) FIO Processor Kit (Recommended)	860651-L21
HPE DL360 Gen10 Intel Xeon-Bronze 3104 (1.7GHz/6-core/85W) FIO Processor Kit (Recommended)	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 per processor is dependent on processor model selection or limitation.

NOTE: Maximum memory speed is dependent on processor model selection or limitation.

NOTE: A maximum of 12 NVDIMMs can be supported.

Registered DIMMs (RDIMMs) - Recommended

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

Registered DIMMs (RDIMMs) - Extended

HPE 8GB (1x8GB) Dual Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit (Extended)	876181-B21
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Load Reduces DIMMs (LRDIMMs) - Recommended

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

HPE Persistent Memory (NVDIMM) - Recommended

Configuration Information - Factory Integrated Models

HPE 16GB NVDIMM Single Rank x4 DDR4-2666 Module Kit (Recommended) 845264-B21

NOTE: A maximum of 12 NVDIMMs supported.

NOTE: 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>

Step 2c: Choose Power Supplies

Please select one or two power supplies from below.

NOTE: Mixing of 2 different power supplies are NOT allowed.

HPE Flex Slot Power Supplies - Recommended

HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (Recommended) 865408-B21

HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit (Recommended) 865438-B21

HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (Recommended) 865414-B21

HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit (Recommended) 865434-B21

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

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

HPE Flex Slot Power Supplies - Extended

HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit (Extended) 865428-B21

Step 3: Choose Additional (FIO) Factory Integratable Options

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

HPE Trusted Platform Module 2.0 Gen10 Option (Recommended) 864279-B21

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 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.

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

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

Core Options

Recommended

Offering the best combination of performance, value and availability, Recommended Options have been selected by HPE experts to provide the right technology for a range of workloads and market segments. Fully integrated into the ProLiant management and security experience, Recommended Options provide the best fit with timely availability.

Extended

Extended Options provide an extended catalog of products tailored for customers in specific markets or with specific workloads, requiring the utmost in performance or value. Fully integrated into the ProLiant management and security experience, Extended Options represent great value and performance but typically have a longer lead-time.

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 Hewlett Packard Enterprise approved configurator. Contact your local sales representative for additional information.

HPE Unique Options

Risers - Recommended

HPE DL360 Gen10 Low Profile Riser Kit (Recommended)	867982-B21
HPE DL360 Gen10 SATA M.2 2280 Riser Kit (Recommended)	867978-B21

Risers - Extended

HPE DL360 Gen10 2P Full Height Riser and GPU Enablement Kit (Extended)	867980-B21
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NOTE: This kit is not available on the 10 NVMe model.

Riser Information*

Part number	Description	Riser position		Slot Bus width (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 ⁴	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 ¹	O	N	x16	x8	O	1	2

Core Options

n/a	HPE DL360 Gen10 5-port 10SFF NVMe Riser Kit ²	N	D ³	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.

¹Included on 2SFF NVMe Backplane Kit (871242-B21)

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

³Included on 10SFF chassis (867960-B21 & 875967-B21)

⁴When 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>

Performance Cooling Options - Recommended

HPE DL360 Gen10 High Performance Heat Sink Kit (Recommended)	871246-B21
HPE DL360 Gen10 High Performance Fan Kit (Recommended)	871244-B21

Universal Media Bay Options - Recommended

HPE DL360 Gen10 2SFF SAS/SATA Backplane Kit (Recommended)	867966-B21
HPE DL360 Gen10 2SFF NVMe Backplane Kit (Recommended)	871242-B21
HPE DL360 Gen10 2SFF SATA UFF Backplane Kit (Recommended)	867970-B21
HPE DL360 Gen10 8SFF Display Port/USB/Optical Drive Blank Kit (Recommended)	868000-B21

NOTE: This kit is required for Optical Drive option (8SFF model only).

Universal Media Bay Options - Extended

HPE DL360 Gen10 LFF Display Port and USB Kit (Extended)	868004-B21
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Optical Drive Options - Recommended

HPE Mobile USB DVD-RW Optical Drive (Recommended)	701498-B21
NOTE: This kit is only supported on USB 3.0 ports only.	
HPE 9.5mm SATA DVD-ROM Optical Drive (Recommended)	726536-B21
HPE 9.5mm SATA DVD-RW Optical Drive (Recommended)	726537-B21

Optical Drive Options - Extended

HPE DL360 Gen9 LFF Optical Cable (Extended)	766203-B21
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NOTE: This kit is required for Optical Drive option (4LFF model only).

System Insight Display Options - Recommended

HPE DL360 Gen10 SFF System Insight Display Power Module Kit (Recommended)	867996-B21
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System Insight Display Options - Extended

HPE DL360 Gen10 LFF System Insight Display Power Module Kit (Extended)	867994-B21
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Rear Drive Option Kit - Recommended

HPE DL360 Gen10 1SFF Rear SAS/SATA/UFF Backplane Kit (Recommended)	867972-B21
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10 NVMe chassis Upgrade Kit - Recommended

HPE DL360 Gen10 10SFF Premium Backplane Kit (Recommended)	867974-B21
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NOTE: This kit is supported on the 8SFF model only.

Core Options

Security - Recommended

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

Cable Kits - Recommended

HPE DL360 Gen10 SFF Internal Cable Kit (Recommended)	867990-B21
HPE DL3XX Gen10 Rear Serial Cable and Enablement Kit (Recommended)	873770-B21

Cable Kits - Extended

HPE DL360 Gen10 LFF Internal Cable Kit (Extended)	873869-B21
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HPE Processors

Please select one -L21 processor required above.

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

For example: first processor, select 876099-L21 then for second processor, select 876099-B21.

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

NOTE: Maximum memory capacity per processor is dependent on processor models. All processors support up to 768 GB max memory per processor except "M"? model processors will support up to 1.5 TB max memory per processor.

NOTE: Mixing of 2 different processor models are NOT allowed.

NOTE: DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

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

Intel Xeon-Platinum - Extended

HPE DL360 Gen10 Intel Xeon-Platinum 8180M (2.5GHz/28-core/205W) Processor Kit (Extended)	876099-B21
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NOTE: Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8180 (2.5GHz/28-core/205W) Processor Kit (Extended)	867988-B21
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NOTE: Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8176 (2.1GHz/28-core/165W) Processor Kit (Extended)	870982-B21
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NOTE: Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8170 (2.1GHz/26-core/165W) Processor Kit (Extended)	870980-B21
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NOTE: Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8168 (2.7GHz/24-core/205W) Processor Kit (Extended)	870978-B21
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NOTE: Ships with Performance Heatsink.

Core Options

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

NOTE: Ships with Performance Heatsink.

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 (Extended) 870976-B21

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

Intel Xeon-Gold - Recommended

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

Core Options

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 (Recommended) 860669-B21

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

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

NOTE: Ships with Performance Heatsink.

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

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

NOTE: Ships with Performance Heatsink.

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

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

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

Intel Xeon-Gold - Extended

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

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

NOTE: Ships with Performance Heatsink.

Intel Xeon-Silver - Recommended

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

HPE DL360 Gen10 Intel Xeon-Silver 4112 (2.6GHz/4-core/85W) Processor Kit (Recommended) 860659-B21

HPE DL360 Gen10 Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) Processor Kit (Recommended) 860653-B21

Core Options

HPE DL360 Gen10 Intel Xeon-Silver 4108 (1.8GHz/8-core/85W) Processor Kit (Recommended)	860655-B21
Intel Xeon-Silver - Extended	
HPE DL360 Gen10 Intel Xeon-Silver 4116 (2.1GHz/12-core/85W) Processor Kit (Extended)	874449-B21
Intel Xeon-Bronze - Recommended	
HPE DL360 Gen10 Intel Xeon-Bronze 3106 (1.7GHz/8-core/85W) Processor Kit (Recommended)	860651-B21
HPE DL360 Gen10 Intel Xeon-Bronze 3104 (1.7GHz/6-core/85W) Processor Kit (Recommended)	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 per processor is dependent on processor model selection or limitation.

NOTE: Maximum memory speed is dependent on processor model selection or limitation.

NOTE: A maximum of 12 NVDIMMs can be supported.

HPE DDR4 Memory

Registered DIMMs (RDIMMs) - Recommended

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

Registered DIMMs (RDIMMs) - Extended

HPE 8GB (1x8GB) Dual Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit (Extended)	876181-B21
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Load Reduced DIMMs (LRDIMMs) - Recommended

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

HPE Persistent Memory (NVDIMM) - Recommended

HPE 16GB NVDIMM Single Rank x4 DDR4-2666 Module Kit (Recommended)	845264-B21
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Core Options

NOTE: A maximum of 12 NVDIMMs supported.

NOTE: 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

Enterprise - 12G SAS - SFF Drives - Recommended

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

Enterprise - 12G SAS - SFF Drives - Extended

HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD (Extended)	870765-B21
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Midline - 6G SATA - LFF Drives - Recommended

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

Midline - 6G SATA - LFF Drives - Extended

HPE 12TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD (Extended)	881785-B21
HPE 10TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD (Extended)	857648-B21
HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD (Extended)	872489-B21

Midline 6G SATA - SFF Drives - Recommended

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

HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD (Recommended) 655710-B21

Midline - 12G SAS - LFF Drives - Recommended

HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD (Recommended) 819201-B21

HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD (Recommended) 872487-B21

HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD (Recommended) 872485-B21

Midline - 12G SAS - LFF Drives - Extended

HPE 12TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD (Extended) 881779-B21

HPE 10TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e Digitally Signed Firmware HDD (Extended) 857644-B21

HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD (Extended) 846514-B21

HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD (Extended) 861754-B21

HPE 1TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD (Extended) 846524-B21

Midline - 12G SAS - SFF Drives - Recommended

HPE 2TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD (Recommended) 765466-B21

HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD (Recommended) 832514-B21

Midline - 12G SAS - SFF Drives - Extended

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

SSD Selection

To streamline the configuration process for HPE ProLiant Gen10 servers and to provide the best product availability, HPE recommends SSDs from the list located here:

<http://www.hpe.com/products/recommend>.

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

HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended) 872394-B21

HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended) 872392-B21

HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended) 875326-B21

HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended) 872390-B21

HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended) 875313-B21

HPE 480GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended) 875311-B21

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

Core Options

HPE 15.3TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended) 870148-B21

HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended) 870144-B21

HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended) 875330-B21

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

HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended) 872386-B21

HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended) 872382-B21

HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended) 873365-B21

HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended) 872376-B21

HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended) 873363-B21

HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended) 872374-B21

HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended) 873359-B21

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

HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended) 873367-B21

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

HPE 1.6TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended) 873357-B21

HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended) 873355-B21

HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended) 873351-B21

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

HPE 600GB SAS 12G Enterprise 15K LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware HDD (Recommended) P04695-B21

HPE 300GB SAS 12G Enterprise 15K LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware HDD (Recommended) P04693-B21

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

HPE 800GB SAS 12G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD (Extended) 872378-B21

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

HPE 4TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended) 877988-B21

HPE 2TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended) 877986-B21

Core Options

HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	875591-B21
HPE 1TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	877984-B21
HPE 960GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	875589-B21
HPE 480GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	875587-B21

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

HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	P04570-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	P06198-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875513-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	P04566-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	P06196-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875511-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	P04564-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	P06194-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875509-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	P04560-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875503-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	P04556-B21

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

HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	877764-B21
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	P06200-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	877758-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	877752-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	877746-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	877740-B21

Core Options

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

HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD (Extended)	877760-B21
HPE 960GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD (Extended)	877754-B21
HPE 480GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD (Extended)	877748-B21

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

HPE 3.2TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	877998-B21
HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	877994-B21
HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	875597-B21
HPE 800GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	875595-B21
HPE 400GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	875593-B21
HPE 375GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD (Extended)	878014-B21

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

HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875478-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875474-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875470-B21
HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875483-B21
HPE 3.84TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Recommended)	P00896-B21

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

HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	877788-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	877782-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	877776-B21
HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD (Extended)	880295-B21

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

HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD (Recommended)	875480-B21
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Mixed Use - SATA - LFF - Solid State Drives - Extended

Core Options

HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD (Extended) 877790-B21

HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD (Extended) 877784-B21

HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD (Extended) P03691-B21

Dual SATA 6G M.2 - UFF SCM - Recommended

HPE Dual 240GB SATA 6G Mixed Use M.2 - UFF to SFF SCM 3yr Wty Digitally Signed Firmware SSD (Recommended) P06607-B21

HPE Dual 480GB SATA 6G Read Intensive M.2 - UFF to SFF SCM 3yr Wty Digitally Signed Firmware SSD (Recommended) P06609-B21

Internal Dual M.2 Kit - Recommended

HPE Universal SATA HHL 3yr Wty M.2 Kit (Recommended) 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 (Recommended) 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) - Recommended

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

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

HPE 960GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended) 875500-B21

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

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

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

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

HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD (Extended) 875492-B21

Hard Drive Blank Kits - Recommended

HPE Large Form Factor Hard Drive Blank Kit (Recommended) 666986-B21

HPE Small Form Factor Hard Drive Blank Kit (Recommended) 666987-B21

HPE Networking**100 Gigabit Ethernet adapters - Recommended**

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

25 Gigabit Ethernet adapters - Recommended

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

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

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

10 Gigabit Ethernet adapters - Recommended

Core Options

HPE Ethernet 10Gb 2-port 562T Adapter (Recommended)	817738-B21
HPE Ethernet 10Gb 2-port 562SFP+ Adapter (Recommended)	727055-B21
HPE Ethernet 10Gb 2-port 535T Adapter (Recommended)	813661-B21
HPE Ethernet 10Gb 2-port 530SFP Adapter (Recommended)	652503-B21
HPE Ethernet 10Gb 2-port 530T Adapter (Recommended)	656596-B21

10 Gigabit Ethernet adapters - Extended

HPE Ethernet 10Gb 2-port 521T Adapter (Extended)	867707-B21
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1 Gigabit Ethernet adapters - Recommended

HPE Ethernet 1Gb 4-port 366T Adapter (Recommended)	811546-B21
HPE Ethernet 1Gb 4-port 331T Adapter (Recommended)	647594-B21

1 Gigabit Ethernet adapters - Extended

HPE Ethernet 1Gb 2-port 361T Adapter (Extended)	652497-B21
HPE Ethernet 1Gb 2-port 332T Adapter (Extended)	615732-B21

FlexibleLOM Adapters - Recommended

HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter (Recommended)	817749-B21
HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter (Recommended)	817709-B21
HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter (Recommended)	867334-B21
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter (Recommended)	727054-B21
HPE Ethernet 10Gb 2-port 562FLR-T Adapter (Recommended)	817745-B21
HPE FlexFabric 10Gb 4-port 536FLR-T Adapter (Recommended)	764302-B21
HPE Ethernet 10Gb 2-port 535FLR-T Adapter (Recommended)	817721-B21
HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter (Recommended)	700751-B21
HPE FlexFabric 10Gb 2-port 533FLR-T Adapter (Recommended)	700759-B21
HPE Ethernet 1Gb 4-port 331FLR Adapter (Recommended)	629135-B22
HPE Ethernet 1Gb 4-port 366FLR Adapter (Recommended)	665240-B21

HPE InfiniBand - Recommended

HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QSFP28 Adapter (Recommended)	872726-B21
HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter (Recommended)	764285-B21
HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter (Recommended)	764284-B21
HPE InfiniBand FDR/Ethernet 40/50Gb 2-port 547FLR-QSFP Adapter (Recommended)	879482-B21
HPE InfiniBand EDR 100Gb 1-port 841QSFP28 Adapter (Recommended)	872725-B21
HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter (Recommended)	825110-B21
HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter (Recommended)	825111-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCIe Gen3 with Intel Omni-Path Architecture Adapter (Recommended)	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

Core Options

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](#).

HPE Flex Slot Platinum Hot-plug Power supplies - Recommended

HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (Recommended) 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 (Recommended) 865414-B21

HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit (Recommended) 865438-B21

HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit (Recommended) 865434-B21

HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit (Recommended) 865408-B21

HPE Flex Slot Platinum Hot-plug Power supplies - Extended

HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit (Extended) 865428-B21

GPGPU Information

Part number	Card	Qty supported	Processor supported	PCIe speed	DL360 configuration				
					4LFF	8SFF	8+2SFF SAS/SATA/Dual M.2	8+2SFF NVMe ¹	10SFF SAS/SATA/NVMe ²
Q0V77A	NVIDIA Quadro P2000 GPU Module	2	All	Gen3	35C	35C	35C	35C	35C
Q0V78A	NVIDIA Quadro P4000 GPU Module	2	All	Gen3	35C	35C	35C	35C	35C
Q0V79A	NVIDIA Tesla P4 8GB Module	2	All	Gen3	35C	35C	30C	30C	25C

Core Options

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

¹ - Requires high performance fans with 2SFF NVMe configuration.

² - 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 - Recommended

HPE NVIDIA Tesla P4 8GB Computational Accelerator (Recommended)	Q0V79A
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HPE NVIDIA Quadro P4000 Graphics Accelerator (Recommended)	Q0V78A
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HPE NVIDIA Quadro P2000 Graphics Accelerator (Recommended)	Q0V77A
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HPE Computation and Graphics Accelerators - Extended

HPE DL360 Gen10 GPU CPU1 Cable Kit (Extended)	871248-B21
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Additional Options

Recommended

Offering the best combination of performance, value and availability, Recommended Options have been selected by HPE experts to provide the right technology for a range of workloads and market segments. Fully integrated into the ProLiant management and security experience, Recommended Options provide the best fit with timely availability.

Extended

Extended Options provide an extended catalog of products tailored for customers in specific markets or with specific workloads, requiring the utmost in performance or value. Fully integrated into the ProLiant management and security experience, Extended Options represent great value and performance but typically have a longer lead-time.

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 iLO Advanced Premium Security Edition License with 1yr Support on Licensed Features	Q7E31A
HPE iLO Advanced Premium Security Flex Qty License with 1yr Support on Licensed Features	Q7E32A
HPE iLO Advanced Premium Security Edition Electronic License with 1yr Support on Licensed Features	Q7E32AAE
HPE iLO Advanced Premium Security Edition License with 3yr Support on Licensed Features	Q7E33A
HPE iLO Advanced Premium Security Flex Qty License with 3yr Support on Licensed Features	Q7E34A
HPE iLO Advanced Premium Security Edition Electronic License with 3yr Support on Licensed Features	Q7E34AAE
HPE iLO Advanced Premium Security Upgrade Electronic License with 3yr Support on Licensed Features	Q7E12AAE
HPE iLO Advanced Premium Security AKA Tracking License with 1yr Support on Licensed Features	Q7E35A
HPE iLO Advanced Premium Security AKA Tracking License with 3yr Support on Licensed Features	Q7E36A

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

Additional Options

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 - Recommended

HPE 1.6TB PCIe x8 Lanes Mixed Use HHL 3yr Wty Digitally Signed Firmware Card (Recommended)	877825-B21
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HPE PCIe Workload Accelerator Options - Extended

HPE 3.2TB PCIe x8 Lanes Mixed Use HHL 3yr Wty Digitally Signed Firmware Card (Extended)	877827-B21
HPE 6.4TB PCIe x8 Lanes Mixed Use HHL 3yr Wty Digitally Signed Firmware Card (Extended)	877829-B21
HPE 4TB PCIe x4 Lanes Read Intensive HHL 3yr Wty Digitally Signed Firmware Card (Extended)	877831-B21
HPE 750GB PCIe x4 Lanes Write Intensive HHL 3yr Wty Digitally Signed Firmware Card (Extended)	878038-B21

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

HPE Security - Recommended

HPE 1U Gen10 Bezel Kit (Recommended)	867998-B21
HPE Bezel Lock Kit (Recommended)	875519-B21
HPE DL360 Gen10 Chassis Intrusion Detection Kit (Recommended)	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 (Recommended)	864279-B21
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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 Gen10 TPM 1.2 FIO Setting	872108-B21
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NOTE: This is a FIO setting to allow the TPM 2.0 module to operate in a TPM 1.2 mode

Additional Options

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](https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=a00017196ENW)

HPE Flexible Smart Array Controllers - Recommended

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

HPE Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular Controller (Extended)	804326-B21
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HPE Smart Array Controllers - Recommended

HPE Smart Array P824i-p MR Gen10 (24 Internal Lanes/4GB Cache/CacheCade) 12G SAS PCIe Controller (Recommended)	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 (Recommended)	804405-B21
HPE Smart Array P408i-p SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS PCIe Plug-in Controller (Recommended)	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 (Recommended)	804398-B21
HPE Smart Array E208i-p SR Gen10 (8 Internal Lanes/No Cache) 12G SAS PCIe Plug-in Controller (Recommended)	804394-B21
NOTE: Not supported on slot 3.	
HPE 96W Smart Storage Battery (up to 20 Devices) with 145mm Cable Kit (Recommended)	P01366-B21

HPE Cable Options - Recommended

HPE DL360 Gen10 SFF Internal Cable Kit (Recommended)	867990-B21
HPE DL3XX Gen10 Rear Serial Cable and Enablement Kit (Recommended)	873770-B21

HPE Cable Options - Extended

HPE DL360 Gen10 P824i-p Cable Kit (Extended)	867992-B21
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NOTE: SFF only, not supported on LFF chassis.

Additional Options

HPE DL360 Gen10 LFF Internal Cable Kit (Extended)	873869-B21
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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
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HPE Smart Array SR SmartCache (Single Key/Single Server) LTU	D7S26A
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HPE Smart Array SR SmartCache (Single Key/Multiple Servers) LTU	D7S27A
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HPE Smart Array SR SmartCache (Single Key/Multiple Servers) E-LTU	D7S27AAE
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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.

HPE Storage Options

Emulex Fibre Channel HBAs - Recommended

HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter (Recommended)	Q0L13A
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HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter (Recommended)	Q0L14A
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HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter (Recommended)	Q0L11A
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HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter (Recommended)	Q0L12A
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QLogic Fibre Channel HBAs - Recommended

HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter (Recommended)	P9D93A
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HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter (Recommended)	P9D94A
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HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter (Recommended)	P9M75A
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HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter (Recommended)	P9M76A
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Converged Network Adapter - Recommended

HPE StoreFabric CN1100R Dual Port Converged Network Adapter (Recommended)	QW990A
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HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter (Recommended)	N3U52A
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HPE StoreFabric CN1200E 10Gb Converged Network Adapter (Recommended)	E7Y06A
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HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter (Recommended)	N3U51A
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HPE Rack Options

Rail Kits - Recommended

HPE 1U Gen10 SFF Easy Install Rail Kit (Recommended)	874543-B21
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HPE 1U LFF Gen9 Easy Install Rail Kit (Recommended)	789388-B21
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HPE 1U Cable Management Arm for Rail Kit (Recommended)	734811-B21
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NOTE: Supports both the Easy Install and Ball Bearing Rail Kits.

HPE 1U Gen10 SFF Ball Bearing Rail Kit (Recommended)	872252-B21
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HPE 1U Gen10 LFF Ball Bearing Rail Kit (Recommended)	879003-B21
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Additional Options

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

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

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

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

HPE Power Distribution Units (PDUs)

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

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

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

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

HPE Uninterruptible Power Systems (UPS)

NOTE: To learn more, please visit the [HPE Uninterruptible Power Systems \(UPS\) web page](#).

NOTE: Please see the [HPE DirectFlow Three Phase Uninterruptible Power System QuickSpecs](#) for information on these products and their specifications.

NOTE: Please see the [HPE Line Interactive Single Phase UPS QuickSpecs](#) for information on these products and their specifications.

HPE USB and SD Options

HPE Enterprise Mainstream Flash Media Kits for Memory Cards - Recommended

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

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
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Additional Options

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

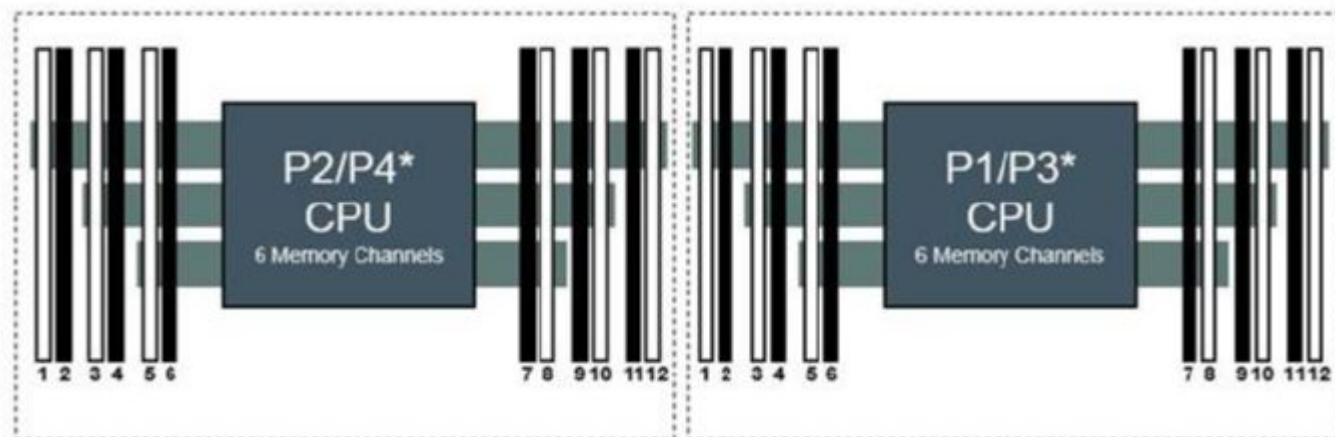
NOTE: For a full listing of support services available for this server, please visit <https://ssc.hpe.com/>

Memory

Memory Population guidelines

HPE Gen10 DL360 / DL380 / DL560* Servers

2 Slots per Channel



* DL560 is a 4 socket server (uses P3, P4)

Front of Server

HPE ProLiant Gen10 12 slot per CPU DIMM population order												
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

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.

Memory

. 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](#).

DIMM Type		Register DIMM (RDIMM)			
HPE SKU P/N	815097-B21	815098-B21	835955-B21	815100-B21	
SKU Description	HPE 8GB (1x8GB) Single Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit (Recommended)	HPE 16GB (1x16GB) Single Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit (Recommended)	HPE 16GB (1x16GB) Dual Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit (Recommended)	HPE 32GB (1x32GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit (Recommended)	
DIMM Rank ->	Single Rank (1R)	Single Rank (1R)	Dual Rank (2R)	Dual Rank (2R)	
DIMM Capacity ->	8GB	16GB	16GB	32GB	
Voltage	1.2V	1.2V	1.2V	1.2V	
DRAM depth [bit]	1G	2G	1G	2G	
DRAM Width [bit]	x8	x4	x8	x4	
DRAM Density	8Gb	8Gb	8Gb	8Gb	
CAS Latency	19-19-19	19-19-19	19-19-19	19-19-19	
DIMM Native Speed (MT/s)	2666 MT/s	2666 MT/s	2666 MT/s	2666 MT/s	
Intel Xeon®Platinum/Gold 81xx/61xx Processors Officially Supported Memory Speed (MT/s)					
1 DIMM Per Channel	2666 MT/s	2666 MT/s	2666 MT/s	2666 MT/s	
2 DIMM Per Channel	2666 MT/s	2666 MT/s	2666 MT/s	2666 MT/s	
Intel Xeon®Gold/Silver 51xx/41xx Processors Officially Supported Memory Speed (MT/s)					
1 DIMM Per Channel	2400 MT/s	2400 MT/s	2400 MT/s	2400 MT/s	
2 DIMM Per Channel	2400 MT/s	2400 MT/s	2400 MT/s	2400 MT/s	
Intel Xeon®Bronze 31xx Processors Officially Supported Memory Speed (MT/s)					
1 DIMM Per Channel	2133 MT/s	2133 MT/s	2133 MT/s	2133 MT/s	
2 DIMM Per Channel	2133 MT/s	2133 MT/s	2133 MT/s	2133 MT/s	
HPE Server Memory Speed (MT/s): Intel Xeon®Platinum/Gold 81xx/61xx Processors *					
1 DIMM Per Channel	2666 MT/s	2666 MT/s	2666 MT/s	2666 MT/s	
2 DIMM Per Channel	2666 MT/s	2666 MT/s	2666 MT/s	2666 MT/s	
HPE Server Memory Speed (MT/s): Intel Xeon®Gold/Silver 51xx/41xx Processors *					
1 DIMM Per Channel	2400 MT/s	2400 MT/s	2400 MT/s	2400 MT/s	
2 DIMM Per Channel	2400 MT/s	2400 MT/s	2400 MT/s	2400 MT/s	
HPE Server Memory Speed (MT/s): Intel Xeon®Bronze 31xx Processors *					
1 DIMM Per Channel	2133 MT/s	2133 MT/s	2133 MT/s	2133 MT/s	
2 DIMM Per Channel	2133 MT/s	2133 MT/s	2133 MT/s	2133 MT/s	

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>

Memory

DIMM Type HPE SKU P/N	Load Reduced (LRDIMM)	
	815101-B21	815102-B21
	HPE 64GB (1x64GB) Quad Rank x4 DDR4-2666 CAS-19-19-19 Load Reduced Smart Memory Kit (Recommended)	HPE 128GB (1x128GB) Octal Rank x4 DDR4-2666 CAS-22-19- 19 3DS Load Reduced Memory Kit (Recommended)
SKU Description	Quad Rank (4R)	Octal Rank (8R)
DIMM Rank ->	64GB	128GB
DIMM Capacity ->	1.2V	1.2V
Voltage	2G	2G
DRAM depth [bit]	x4	x4
DRAM Width [bit]	8Gb	8Gb
DRAM Density	19-19-19	22-19-19
CAS Latency	2666 MT/s	2666 MT/s
DIMM Native Speed (MT/s)	Intel Xeon® Platinum/Gold 81xx/61xx Processors Officially Supported Memory Speed (MT/s)	
	2666 MT/s	2666 MT/s
1 DIMM Per Channel	2666 MT/s	2666 MT/s
2 DIMM Per Channel	Intel Xeon® Gold/Silver 51xx/41xx Processors Officially Supported Memory Speed (MT/s)	
	2400 MT/s	2400 MT/s
1 DIMM Per Channel	2400 MT/s	2400 MT/s
2 DIMM Per Channel	Intel Xeon® Bronze 31xx Processors Officially Supported Memory Speed (MT/s)	
	2133 MT/s	2133 MT/s
1 DIMM Per Channel	2133 MT/s	2133 MT/s
2 DIMM Per Channel	HPE Server Memory Speed (MT/s): Intel Xeon® Platinum/Gold 81xx/61xx Processors *	
	2666 MT/s	2666 MT/s
1 DIMM Per Channel	2666 MT/s	2666 MT/s
2 DIMM Per Channel	HPE Server Memory Speed (MT/s): Intel Xeon® Gold/Silver 51xx/41xx Processors *	
	2400 MT/s	2400 MT/s
1 DIMM Per Channel	2400 MT/s	2400 MT/s
2 DIMM Per Channel	HPE Server Memory Speed (MT/s): Intel Xeon® Bronze 31xx Processors *	
	2133 MT/s	2133 MT/s
1 DIMM Per Channel	2133 MT/s	2133 MT/s
2 DIMM Per Channel		

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>

Standard and Maximum Memory Capacity (Pre-configured Models)

Pre Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
3106	16 GB (1x16 GB RDIMM DR)	384 GB (24x 16 GB)	3072 GB (24x 128 GB)
4114	32 GB (2x16 GB RDIMM DR)	384 GB (24x 16 GB)	3072 GB (24x 128 GB)
5118	64 GB (2x32 GB RDIMM DR)	768 GB (24x 32 GB)	3072 GB (24x 128 GB)
6130	64 GB (2x32 GB RDIMM DR)	768 GB (24x 32 GB)	3072 GB (24x 128 GB)

Memory

DDR4 memory options part number decoder

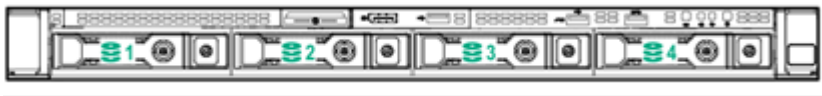
NOTE: Capacity references are rounded to the common gigabyte (GB) values.

- 8GB = 8,192 MB
- 16GB = 16,384 MB
- 32GB = 32,768 MB
- 64GB = 65,536 MB

For more information on memory, please see the Memory Quickspecs: [HPE DDR4 SmartMemory](#)

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

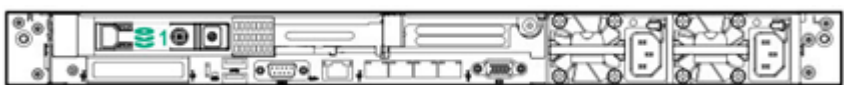
10 SFF NVMe/SAS backplane option device bay numbering



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)	4.29 x 43.46 x 70.7 cm	SFF Drives
	1.69 x 17.11 x 27.83 in	
	4.29 x 43.46 x 74.98 cm	LFF Drives
	1.69 x 17.11 x 29.5 in	
Weight (approximate)	13.04 kg	SFF minimum: One drive, one processor, one power supply, two heatsinks, one Smart Array controller, and five fans.
	28.74 lb	
	16.27 kg	SFF maximum: 10 drives, two processors, two power supplies, two heatsinks, one Smart Array controller and seven fans.
	35.86 lb	
13.77 kg	LFF minimum: one drive, one processor, one power supply, two heatsinks, one Smart Array controller and five fans.	
30.36 lb		
16.78 kg	LFF maximum: Four drives, two processors, two power supplies, two heatsinks, one Smart Array controller and seven fans.	
37 lb		
Input Requirements (per power supply)	Rated Line Voltage	100 to 120 VAC 200 to 240 VAC
BTU Rating	Maximum	For 800W Power Supply: 3207 BTU/hr (at 100 VAC), 3071 BTU/hr (at 200 VAC), 3112 BTU/hr (at 240 VDC) for China Only For 500W Power Supply: 1979 BTU/hr (at 100 VAC), 1911 BTU/hr (at 200 VAC), 1965 BTU/hr (at 240 VDC) for China Only
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 Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VDC) input for China only For 500W 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 200 to 240 1VAC), 1600W (at 240 VDC) input for China only
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.

Technical Specifications

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.

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.

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).

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
Idle			
LWAd	5.1 B	5.1 B	5.2 B

Technical Specifications

LpAm	35 dBA	35 dBA	36 dBA
Operating			
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>

- For information on the HPE Smart Array E208i-a SR Gen10 Controller please refer to their [QuickSpecs](#).
- For information on the HPE Smart Array E208i-a SR G10 LH Controller please refer to their [QuickSpecs](#).
- For information on the HPE Smart Array E208i-p SR Gen10 Controller please refer to their [QuickSpecs](#).
- For information on the HPE Smart Array E208e-p SR Gen10 Controller please refer to their [QuickSpecs](#).
- For information on the HPE Smart Array P408i-a SR Gen10 Controller please refer to their [QuickSpecs](#).
- For information on the HPE Smart Array P408i-a SR G10 LH Controller please refer to their [QuickSpecs](#).
- For information on the HPE Smart Array P408i-p SR Gen10 Controller please refer to their [QuickSpecs](#).
- For information on the HPE Smart Array P408e-p SR Gen10 Controller please refer to their [QuickSpecs](#).
- For information on the HPE Smart Array P816i-a SR Gen10 Controller please refer to their [QuickSpecs](#).
- For information on the HPE Smart Array P816i-a SR G10 LH Controller please refer to their [QuickSpecs](#).

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
13-Aug-2018	Version 16	Changed	Maximum Storage and Additional Options were revised.
06-Aug-2018	Version 15	Added	Added new AMD and NVIDIA Graphics card options. Added new Smart Array P824i-p MR Gen10 (24 Internal Lanes/4GB Cache/CacheCade) 12G SAS PCIe Controller. Added new Solid State Drives offering.
		Changed	Pre-Configured Models, Core Options, and Additional Options were revised.
		Removed	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	Added	New SSD offering was added to the HPE Drivers section.
		Changed	Core Options, Additional Options, and Memory were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
07-May-2018	Version 12	Added	New SMB models offering was added.
		Changed	Riser Information and power supply section were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
02-Apr-2018	Version 11	Changed	Standard Features, Core Options and Additional Options were revised.
		Removed	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	Added	Added new Entry level WW Model-1 sku. HPE Sepcific IST Processor offering Gold 6143 and Platinum 8165 bins were added. Added new High capacity 12TB LFF drives and Large capacity 15.3TB SSDs.
		Changed	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.
16-Oct-2017	Version 5	Added	128GB Memory was added. Riser table was added under Core Options.
		Changed	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	Added	New Gold Processors were added. Added new Hard Drive and SSD offering. GPU information table was added.
		Changed	Platform Information, Core Options, Additional Options, and Storage section were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
14-Aug-2017	Version 3	Changed	Smart Buy Models section was revised (NA version only).

Summary of Changes

7-Aug-2017	Version 2	Added	Added new Solid State Drives offering to the HPE Drives section. Added Support Services under Additional Options.
		Changed	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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For hard drives, 1GB = 1 billion bytes. Actual formatted capacity is less

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