QuickSpecs

Overview

The U.S. version of QuickSpecs is no longer being updated, please reference the Worldwide QuickSpecs for latest information

HPE ProLiant DL360 Gen10 Server

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

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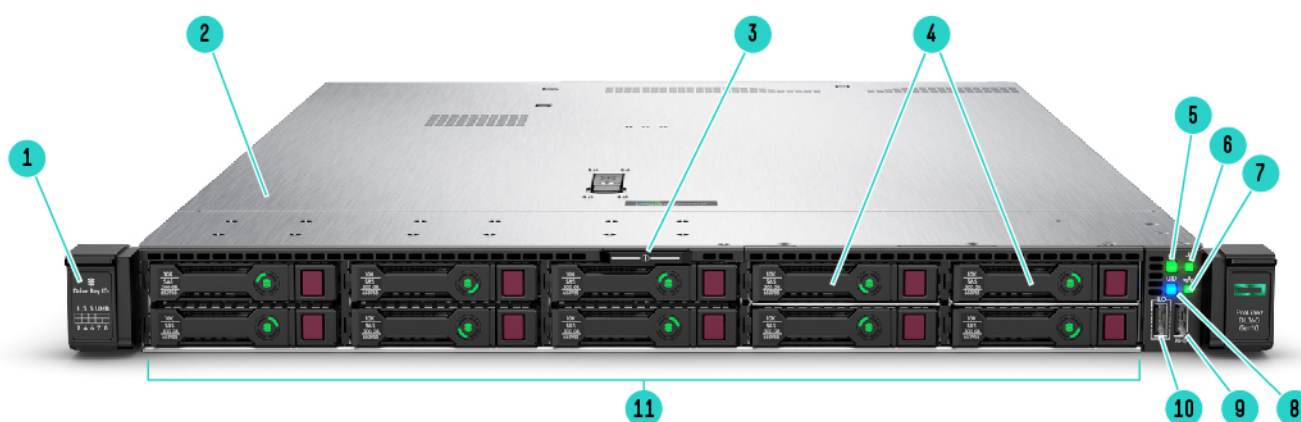

8 SFF Front View – 8 SFF + 2 SFF- Universal Media Bay option shown

1. Drive support label
2. Quick removal access panel
3. Serial no. label pull tab
4. Universal Media Bay: +2 SFF SAS/SATA shown
   Option: +2 SFF NVMe drives
   Option: DVD-RW or DVD-ROM + Display port & USB 2.0 port Kit
   Option: +2 Dual uFF (4x M.2 cartridges)
   Option: Display port + USB 2.0 port Kit + Blank

5. Power On/Standby button and system power LED
6. Health LED
7. NIC status LED
8. UID button/LED
9. USB 3.0 port
10. iLO Service Port
11. Standard 8 SAS/SATA drive bays

NOTE: Rear drive option allows for an additional + 1 SFF or +1 Dual uFF (2x M.2 cartridges).
NOTE: System Insight Display (SID) module will include #5-9 above (will not include #10 - iLO Service Port).

Overview
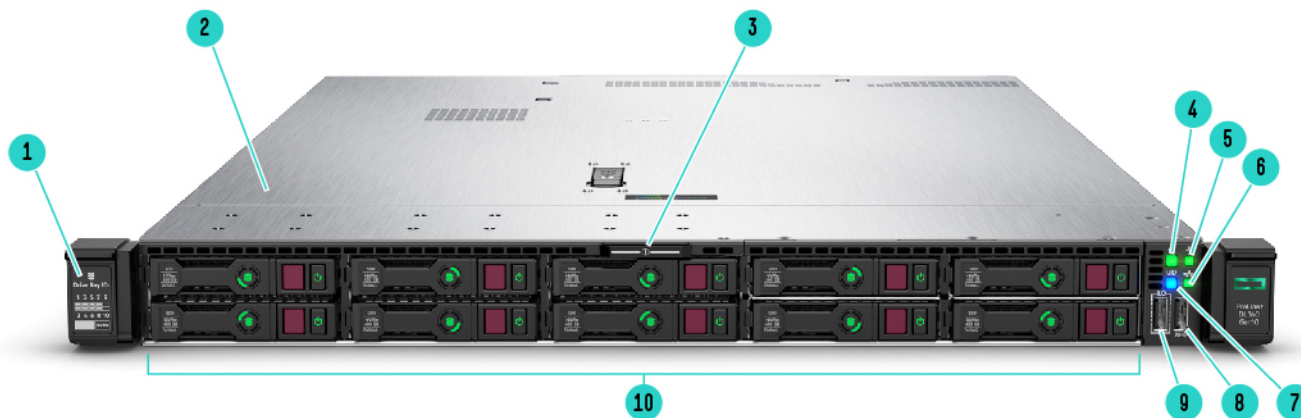
Premium 10SFF NVMe Front View

1. Drive support label
2. Quick removal access panel
3. Serial no. label pull tab
4. Power On/Standby button and system power LED
5. Health LED

6. NIC status LED
7. UID button/LED
8. USB 3.0 port
9. iLO Service Port
10. Max up to 10 NVMe drives (PCIe direct attached) or 8 SAS/SATA/NVMe + 2 NVMe

NOTE: Rear drive option allows for an additional + 1 SFF or +1 Dual uFF (2x M.2 cartridges).
NOTE: System Insight Display (SID) module will include #4-8 above (will not include #9 - iLO Service Port).
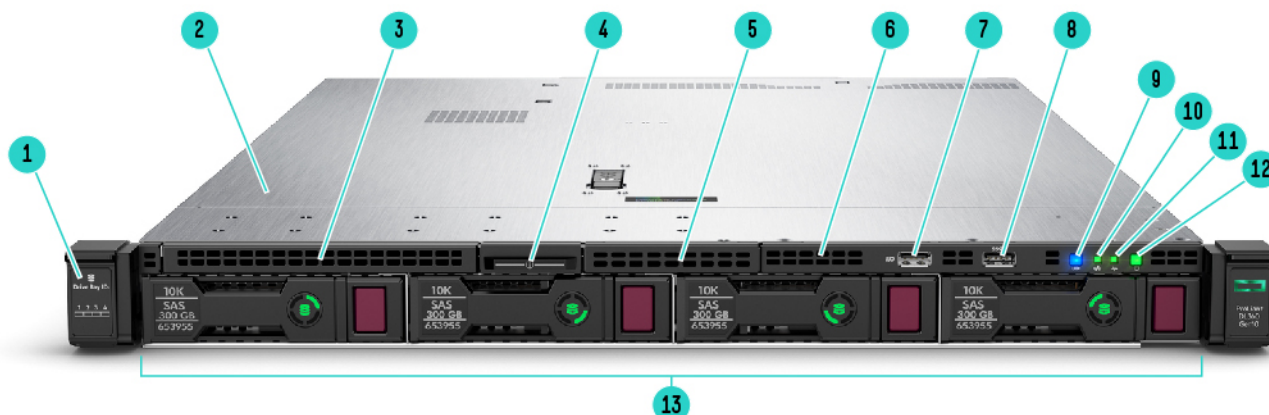
4 LFF Front View – Standard 4 LFF shown

1. Drive support label
2. Quick removal access panel
3. Option: DVD-RW or DVD-ROM (blank shown)
4. Serial no. label pull tab
5. Option: Display port & USB 2.0 port Kit (blank shown)
6. Option: System insight Display (SID) - standard shown[6]
7. iLO Service Port

8. USB 3.0 Port
9. UID button/LED
10. Power On/Standby button and system power LED
11. Health LED
12. NIC status LED
13. SAS/SATA drive bays

NOTE: [6] This option will lose #7 iLO Service Port.
NOTE: Rear drive option allows for additional + 1 SFF or +1 Dual uFF (2x M.2 cartridges), will lose one FH PCIe slot.

Overview
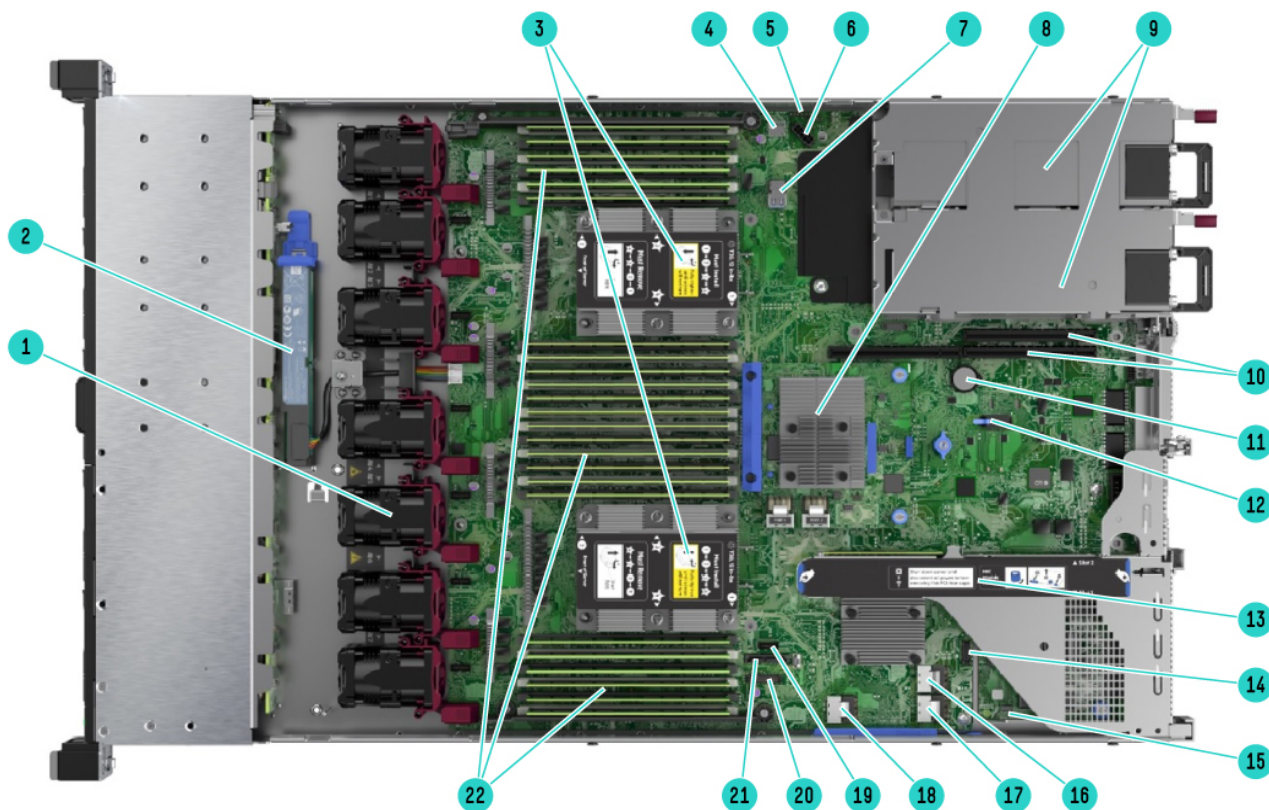
Internal View - Standard for all DL360 Gen10

1. For 8 SFF or 4 LFF - Standard single rotor hot plug fans[1]
    1 CPU – 5 standard fans
    2 CPUs – 7 standard fans
    Option: High Performance fans
2. Option: HPE Smart Hybrid Capacitor or HPE Smart Storage Battery
3. Up to 2 processors (shown with standard heat sinks)
4. MicroSD card slot
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
    Option: Full Height x16 (Lose slot 2 on Primary riser)[10]
11. System Battery
12. Optional: TPM 2.0

13. Primary (CPU1) PCIe 3.0 riser (Standard: GPU power connector + 1x 16 and 1x 8)
    Option: 2 SATA M.2 + 2x 16
    Option: (8 SFF only): 2x 4 NVMe + 1x 16 and 1x 8
14. Option: 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. Front Power USB 3.0 connector
21. Optical/SATA port 5
22. DDR4 DIMM slots (Fully populated 24 DIMMs shown)

NOTE: [1] For 10 NVMe chassis - 7 High Performance fans
NOTE: [10] For 10 NVMe chassis – Secondary Riser is not available due to 10 x4 NVMe riser for PCIe direct attached

Overview
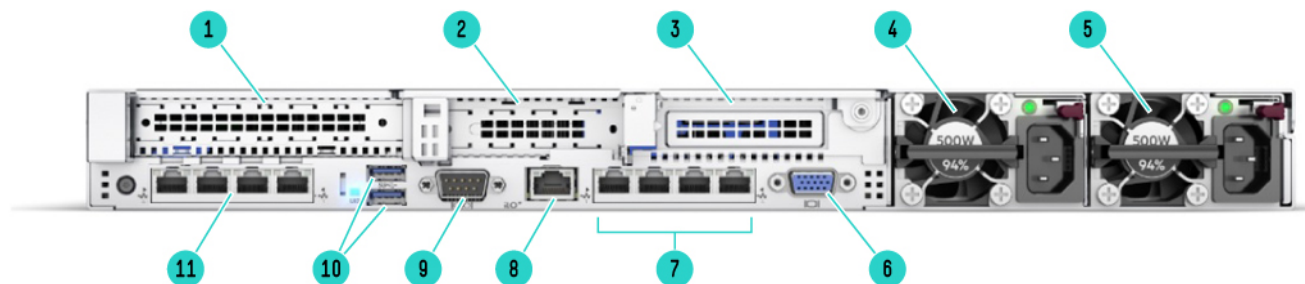
Rear View – Standard for all DL360 Gen10

1. Slot 1 PCIe 3.0
   Option: Rear Drive +1 SFF or 1 uFF SSD (2x M.2 cartridges)[1]
2. Slot 2 PCIe 3.0
3. Option: Slot 3 PCIe 3.0 (Requires 2nd processor)
4. Power Supply 2
5. Power Supply 1
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)[11]

NOTE: [1] Will lose one FH x16 PCIe slot1 with this option.
NOTE: [11] Supports Various NICs up to 25GbE.

What's New

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

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

**Hewlett Packard
Enterprise**

Standard Features

Standard Features

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

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

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

NOTE: This table covers the public Intel offering only.

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

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

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

2nd Generation Intel® Xeon® Scalable Processor Family

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

NOTES:

6-Channel DDR4 @ 2933 MT/s.

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

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

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

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

48 lanes PCIe 3.0, advanced RAS

Standard Features

1st Generation Intel® Xeon® Scalable Processor Family

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

NOTES:
6-Channel 1DPC DDR4 @ 2666 MT/s.
768 GB max memory capacity (1.5 TB on select skus)
2 and 4 socket capable, 2S - 2UPI, 4S - 3UPI, 8S - 3UPI @ 10.4 GT/s.
Intel Turbo Boost Technology, Intel Hyper-Threading Technology Intel AVX-512 (2x 512-bit FMA).
48 lanes PCIe 3.0, advanced RAS.

2nd Generation Intel® Xeon® Scalable Processor Family

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

Standard Features

2nd Generation Intel® Xeon® Scalable Processor Family

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

NOTES:

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

5218B has consistent features with the 5218 processor but from a different die. Mixing both 5218B & 5218 in a system is not supported

6-Channel DDR4 @ 2933 MT/s (Gold 6200 & 5222 skus only), 2666 MT/s on all Gold 5200 skus (except 5222 @ 2933 MT/s).

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

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

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

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

48 lanes PCIe 3.0, advanced RAS

1st Generation Intel® Xeon® Scalable Processor Family

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

NOTES:

6-Channel 1DPC DDR4 @ 2400 MT/s (SKU 5122 - supports 2666 MT/s).

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

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

Intel Turbo Boost Technology, Intel Hyper-Threading Technology, Intel AVX-512 (1x 512-bit FMA) (SKU 5122 - supports 2x 512 bit FMA).

48 lanes PCIe 3.0, advanced RAS.

Standard Features

2nd Generation Intel® Xeon® Scalable Processor Family

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

NOTES:
6-Channel DDR4 @ 2400 MT/s.
2TB max RAM
Support for: HPE Persistent Memory (4215 **only**), Intel® Vector Neural Network Instructions (VNNI) for inference acceleration.
2 and 4 socket capable, 2S – 2UPI, 2S – 3UPI, 4S – 3UPI @ 9.6 GT/s.
Intel Turbo Boost Technology, Intel Hyper-Threading Technology Intel AVX-512 (2x 512-bit FMA).
48 lanes PCIe 3.0, standard RAS

1st Generation Intel® Xeon® Scalable Processor Family

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

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

2nd Generation Intel® Xeon® Scalable Processor Family

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

NOTES:
6-Channel DDR4 @ 2133 MT/s.
2TB max RAM
Support for: Intel® Vector Neural Network Instructions (VNNI) for inference acceleration..
2 and 4 socket capable, 2S – 2UPI, 2S – 3UPI, 4S – 3UPI @ 9.6 GT/s.
Intel AVX-512 (2x 512-bit FMA).
48 lanes PCIe 3.0, standard RAS

1st Generation Intel® Xeon® Scalable Processor Family

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

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

Standard Features

Chipset
Intel C621 Chipset
NOTE: For more information regarding Intel® chipsets, please see the following
URL: **https://www.intel.com/content/www/us/en/products/chipsets/server-chipsets.html**

System Management Chipset
HPE iLO 5 ASIC
NOTE: Read and learn more in the **iLO QuickSpecs**.

Memory
HPE DDR4 SmartMemory

Type
Registered (RDIMM), Load Reduced (LRDIMM)

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

NOTE: NVDIMMs are only supported on 1st generation Intel Xeon Scalable Processors and can only be mixed with RDIMMs.
NOTE: HPE Persistent Memory only supported on 2nd generation Intel Xeon Scalable Processors (Platinum 8200, Gold 6200, Gold 5200, and 4215 only)
NOTE: Maximum memory per socket is dependent on processor selection. 2nd generation processors supporting 2 TB or 4.5 TB per CPU are indicated by the "M" and "L" in the processor model names (i.e. 8276M and 8276L). 1st generation processors supporting 1.5 TB per CPU are indicated by the "M" in the processor model names (ie 8160M)
NOTE: Mixing of RDIMM and LRDIMM memory is not supported.
NOTE: For General Server Memory and Persistent Memory Population Rules and Guidelines for Gen10 see details here:
http://www.hpe.com/docs/memory-population-rules

Memory Protection
Advanced ECC
Advanced ECC uses single device data correction to detect and correct single and all multibit error that occurs within a single DRAM chip.
Online Spare
Memory online spare mode detects a rank that is degrading and switches operation to the spare rank.
NOTE: For more information see our **Memory RAS feature technical whitepaper**.

QuickSpecs **HPE ProLiant DL360 Gen10 Server**

Standard Features

Expansion Slots

Primary GPU Riser

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

Primary SATA M.2 Riser

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

Primary NVMe Riser

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

Secondary Riser*

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

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

Storage Controllers

Software RAID
HPE Smart Array S100i SR Gen10 SW RAID
NOTE: HPE Smart Array S100i SR Gen10 SW RAID will operate in UEFI mode only. For legacy support an additional controller will be needed, and for CTO orders please also select the Legacy mode settings part, 758959-B22.
NOTE: HPE Smart Array S100i SR Gen10 SW RAID is off by default and must be enabled.
NOTE: The S100i is a 14-port SATA controller, but only 12 ports are accessible as 2 are leveraged to support the 2 M.2 options on the Primary Riser.
NOTE: The S100i supports windows only.
NOTE: For Linux users, HPE offers a solution that uses in-distro open-source software to create a two-disk RAID 1 boot volume. For more information visit:
https://downloads.linux.hpe.com/SDR/project/lsrrb/

Essential RAID Controllers
HPE Smart Array E208i-a SR Gen10 Controller
HPE Smart Array E208i-a SR G10 LH Controller
HPE Smart Array E208i-p SR Gen10 Controller
HPE Smart Array E208e-p SR Gen10 Controller

Standard Features

Performance RAID Controllers
HPE Smart Array P408i-a SR Gen10 Controller
HPE Smart Array P408i-a SR G10 LH Controller
HPE Smart Array P408i-p SR Gen10 Controller
HPE Smart Array P408e-p SR Gen10 Controller
HPE Smart Array P816i-a SR Gen10 Controller
HPE Smart Array P816i-a SR G10 LH Controller
NOTE: If GPGPU is needed then the LH controller (low profile heatsink) should be ordered to allow GPU to fit in the chassis.
NOTE: For additional details, please see **HPE Smart Array Gen10 Controllers Data Sheet**.

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	153.6 TB	10 x 15.36 TB NVMe
Hot Plug LFF SAS HDD	56 TB	4 x 14 TB
Hot Plug LFF SATA HDD	56 TB	4 x 14 TB
Hot Plug LFF SAS SSD	7.68 TB	4 x 1.92 TB
Hot Plug LFF SATA SSD	7.68 TB	4 x 1.92 TB

Power Supply
HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
NOTE: Available in 94% efficiency.
HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
NOTE: Available in 94% and 96% efficiency.
NOTE: Also available in -48VDC and 227VAC/380VDC power inputs.
HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
NOTE: Available in 94% efficiency.
NOTE: 1600W Power supplies only support high line voltage (200 VAC to 240 VAC).

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

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

To review the power requirements for your selected system, please use the **HPE Power Advisor Tool.**
For information on power specifications and technical content visit **HPE Server power supplies.**

Standard Features

Interfaces

Serial	1 port - Optional
Video	1 Front - Display port (optional 8 SFF and 4 LFF only)
	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 adapters)
iLO Remote Mgmt Port	1 Gb Dedicated
MicroSD Slot	1 MicroSD slot
	NOTE: The MicroSD slot is not hot-pluggable, server must be powered down 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

2nd Generation Intel® Xeon® Scalable Processor Family

Windows Server 2019: Essentials, Standard, Datacenter
Windows Server 2016: Essentials, Standard, Datacenter
Windows Server 2012 R2: Essentials, Standard, Datacenter
Microsoft Hyper-V Server: 2012 R2, 2016 & 2019
VMware vSphere: 6.0 U3, 6.5 U2 & 6.7 U1
ClearVM: 7.6 & 8.0
Red Hat Enterprise Linux (RHEL): 7.6 w/ Kbase **
SUSE Linux Enterprise Server (SLES): 12 SP4 and 15 SP1 (includes Xen) **

1st Generation Intel® Xeon® Scalable Processor Family

Windows Server 2019: Essentials, Standard & Datacenter
Windows Server 2016 : Essentials, Standard & Datacenter
Windows Server 2012 R2: Essentials, Standard & Datacenter
Microsoft Hyper-V Server: 2012 R2, 2016 & 2019
VMware vSphere: 6.0 U3, 6.5 & 6.7
ClearVM: 2.0
Red Hat Enterprise Linux (RHEL): 6.9 & 7.3**
SUSE Linux Enterprise Server (SLES): 11 SP4, 12 SP2 & 15 (includes Xen) **

**NOTE: 64-bit only;includes KVM

ClearOS
NOTE: ClearOS allows you to build a fully functional server that is just right for you at no upfront cost. For more information on ClearOS, please visit **http://www.hpe.com/servers/clearos**.
CentOS
NOTE: For more information on Hewlett Packard Enterprise Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server.
http://www.hpe.com/info/ossupport

Standard Features

Industry Standard Compliance

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

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

Graphics

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

Standard Features

HPE Server UEFI/Legacy ROM

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

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

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

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

NOTE: For UEFI Boot Mode, boot environment and OS image installations should be configured properly to support UEFI.
NOTE: UEFI FIO Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory for your HPE ProLiant Gen10 Server.

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**.

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

Standard Features

Server Utilities

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

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**.

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

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 anywhere from 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 basic support for non-HPE servers. HPE SIM also integrates with Smart Update Manager to provide quick and seamless firmware updates. Learn more at **http://www.hpe.com/info/hpesim**.

Standard Features

Security

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

Warranty

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

NOTE: Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have Hewlett Packard Enterprise replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at:
http://h17007.www1.hpe.com/us/en/enterprise/servers/warranty/.

Optional Features

Server Management

HPE iLO Advanced

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

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 InfoSight for Servers

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

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.

Optional Features

Rack and Power Infrastructure

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

HPE G2 Advanced and Enterprise Racks are perfect for the server room or today's modern data center with enhanced airflow and thermal management, flexible cable management, and a 10 year Warranty to support higher density computing.
HPE G2 PDUs offer reliable power in flexible form factors that operate at temperatures up to 60°, include color-coded outlets and load segments and a low-profile design for optimal access to the rack and support for dense rack environments.
HPE Uninterruptible Power Systems are cost-effective power protection for any type workload. Some UPSs include options for remote management and extended runtime modules so you're 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#

Service and Support

HPE Pointnext - Service and Support

Protect your business beyond warranty with HPE Pointnext Operational Service

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

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 24x7monitoring, 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] HPE 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

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

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

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

Service and Support

Other related Services

HPE Server Hardware Installation
Provides for the basic hardware installation of HPE branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner.
https://www.hpe.com/h20195/V2/GetPDF.aspx/5981-9356EN.pdf

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 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 MSAxxxx3PAR 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**

Service and Support

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

Learn more **http://www.hpe.com/support/hpesc**.

The HPE Support Center Mobile App* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime.
HPE Insight Remote Support and HPE Support Center are available at no additional cost with a HPE warranty, HPE Support Service or HPE contractual support agreement.
*HPE Support Center Mobile App is subject to local availability.

For more information: **http://www.hpe.com/services**.
NOTE: HPE ProLiant DL360 Gen10 Server is covered under the HPE Service Contract applied to the HPE ProLiant Server. No separate HPE support services need to be purchased.

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

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

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

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

Pre-configured Models

1. Pre- Configured models ship with the configurations below. Options can be selected from the Core or Additional options section of this QuickSpecs.

2. Hewlett Packard Enterprise does not allow factory integration of options into pre-configured models. Any additional options purchased will be shipped separately.

3. If you desire a custom configuration please see "Configuration Information - Factory Integrated Models" section of this QuickSpecs.

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

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

Pre-configured Models

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

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

Pre-configured Models

Powered by 1st Generation Intel Xeon Processors			
	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	4 LFF	8 SFF	8 SFF
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	16 GB RDIMM 2R 2666 MT/s (1x 16 GB) **NOTE:** Runs at 2133 MT/s	16 GB RDIMM 2R 2666 MT/s (1x 16 GB) **NOTE:** Runs at 2400 MT/s
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	Optional	Optional (requires both Drive and UMB)	Optional (requires both Drive and UMB)
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		

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

China Specific

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

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

Pre-configured Models

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

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

Pre-configured Models

Powered by 2nd Generation Intel Xeon Processors	
SKU Number	P03631-B21
Model Name	HPE ProLiant DL360 Gen10 4210 2.2GHz 10-core 1P 16GB-R P408i-a 8SFF 500W PS Server
Chassis	8 SFF
Processor	4210 (10 core, 2.2 GHz, 85W)
Number of Processors	One processor With standard heatsink
Memory	16 GB RDIMM 2R 2933 MT/s (1x 16 GB) **NOTE:** Runs at 2400 MT/s
Network Controller	HPE 1Gb Ethernet 4-Port 331i Adapter
Storage Controller	P408i-a/2GB with Smart Storage Battery
Hard Drive	None included
Optical Drive	Not included (Optical Drive options available)
PCIe Slots	2 PCIe: 1 x16 FH, 1 x8 LP
Power Supply	1x 500W
Fans	5 - Standard
Management	HPE iLO 5
Rail Kit	SFF Easy Install w/o CMA
Energy Star	Energy Star 2.1
Form Factor	1U Rack
Operating System	ClearOS/VM Installer (USB) **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 Pre-configured models.

Pre-configured Models

Powered by 1st Generation Intel Xeon Processors			
SKU Number	P06453-B21	P06454-B21	P06455-B21
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 P408ia 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	8 SFF	8 SFF	8 SFF
Processor	4110 (8 core, 2.1 GHz, 85W)	5118 (12 core, 2.3 GHz, 105W)	6130 (16 core, 2.1 GHz, 125W)
Number of Processors	One processor 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	32 GB RDIMM 2R 2666 MT/s (1x 32 GB) **NOTE:** Runs at 2400 MT/s	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	Not included (Optical Drive options available)	Not included (Optical Drive options available)	Not included (Optical Drive options available)
PCIe Slots	2 PCIe: 1 x16 FH, 1 x8 LP	2 PCIe: 1 x16 FH, 1 x8 LP	2 PCIe: 1 x16 FH, 1 x8 LP
Power Supply	1x 500W	2x 800W	2x 800W
Fans	5 - Standard	5 - Standard	5 - Standard
Management	HPE iLO 5	HPE iLO 5	HPE iLO 5
Rail Kit	SFF Easy Install w/o CMA		
Energy Star	Energy Star 2.1		
Form Factor	1U Rack		
Warranty	3-year parts, 3-year labor, 3-year onsite support with next business day response.		

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

Pre-configured Models

Powered by 1st Generation Intel Xeon Processors	
SKU Number	P05520-B21
Model Name	HPE ProLiant DL360 Gen10 4110 2.1GHz 8-core 1P 16GB-R P408i-a 8SFF 500W RPS Solution Server
Chassis	8 SFF
Processor	4110 (8 core, 2.1 GHz, 85W)
Number of Processors	One processor With standard heatsink
Memory	16 GB RDIMM 2R 2666 MT/s (1x 16 GB) **NOTE:** Runs at 2400 MT/s.
Network Controller	HPE 1Gb Ethernet 4-Port 331i Adapter
Storage Controller	P408i-a/2GB with Smart Storage Battery
Hard Drive	None included
Optical Drive	Not included (Optical Drive options available)
PCIe Slots	2 PCIe: 1 x16 FH, 1 x8 LP
Power Supply	2x 500W
Fans	5 - Standard
Management	HPE iLO 5
Rail Kit	SFF Easy Install w/o CMA
Energy Star	Energy Star 2.1
Form Factor	1U Rack
Operating System	ClearOS/VM Installer (USB) **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 Pre-configured models.

Configuration Information - Factory Integrated Models

This section lists some of the steps required to configure a Factory Integrated Model.
To ensure valid configurations are ordered, Hewlett Packard Enterprise recommends the use of an HPE approved configurator. Contact your local sales representative for information on configurable product offerings and requirements.
1. Factory Integrated Models must start with a CTO Server.
2. FIO indicates that this option is only available as a factory installable option.
3. All Factory Integrated Models will be populated with sufficient hard drive blanks based on number of drives ordered with server.
4. Some options may not be integrated at the factory. Contact your local sales representative for additional information

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

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

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

Configuration Information - Factory Integrated Models

Step 2a: Choose Processor Options

Please select one –L21 processor required below.
For second processor, please select the same processor model with –B21 from Core Options – HPE Processors section.

For example: first processor, select P02679-L21 then for second processor, select P02679-B21.
NOTE: Mixing of 2 different processor models is not supported.
NOTE: For first processor, -L21 will include 5 fans, For second processor, -B21 will add 2 additional fans (for 4 LFF and 8 SFF CTO Server). 10 NVMe CTO Server will always get 7 High Performane fans regardless of 1 or 2 processors.
NOTE: Processors with 130W or higher will ship with the High Performance heat sink plus SKUs 8256, 5222, 8156, 6128, 5122 as noted below. All other processors will ship with the Standard heat sink.
NOTE: When 2nd Generation Intel Xeon Scalable Processor is slected, then only DDR4-2933 Memory Kit can be selected; When 1st Generation Intel Xeon Scalable Processor is selected, then only DDR4-2666 Memory Kit can be selected

Processor Option Kits	Required SKU
2nd Generation Intel Xeon- Platinum	
HPE DL360 Gen10 Intel Xeon-Platinum 8280 (2.7GHz/28-core/205W) FIO Processor Kit	P02679-L21
NOTE: Ships with High Performance Heatsink.	
HPE DL360 Gen10 Intel Xeon-Platinum 8280L (2.7GHz/28-core/205W) FIO Processor Kit	P02718-L21
NOTE: Ships with High Performance Heatsink.	
HPE DL360 Gen10 Intel Xeon-Platinum 8280M (2.7GHz/28-core/205W) FIO Processor Kit	P02703-L21
NOTE: Ships with High Performance Heatsink.	
HPE DL360 Gen10 Intel Xeon-Platinum 8276 (2.2GHz/28-core/165W) FIO Processor Kit	P02676-L21
NOTE: Ships with High Performance Heatsink.	
HPE DL360 Gen10 Intel Xeon-Platinum 8276L (2.2GHz/28-core/165W) FIO Processor Kit	P02715-L21
NOTE: Ships with High Performance Heatsink.	
HPE DL360 Gen10 Intel Xeon-Platinum 8276M (2.2GHz/28-core/165W) FIO Processor Kit	P02700-L21
NOTE: Ships with High Performance Heatsink.	
HPE DL360 Gen10 Intel Xeon-Platinum 8270 (2.7GHz/26-core/205W) FIO Processor Kit	P02673-L21
NOTE: Ships with High Performance Heatsink.	
HPE DL360 Gen10 Intel Xeon-Platinum 8268 (2.9GHz/24-core/205W) FIO Processor Kit	P02670-L21
NOTE: Ships with High Performance Heatsink.	
HPE DL360 Gen10 Intel Xeon-Platinum 8260 (2.4GHz/24-core/165W) FIO Processor Kit	P02661-L21
NOTE: Ships with High Performance Heatsink.	
HPE DL360 Gen10 Intel Xeon-Platinum 8260L (2.4GHz/24-core/165W) FIO Processor Kit	P02712-L21
NOTE: Ships with High Performance Heatsink.	
HPE DL360 Gen10 Intel Xeon-Platinum 8260M (2.4GHz/24-core/165W) FIO Processor Kit	P02694-L21
NOTE: Ships with High Performance Heatsink.	
HPE DL360 Gen10 Intel Xeon-Platinum 8260Y (2.4GHz/24-20-16-core/165W) FIO Processor Kit	P02682-L21
NOTE: 24/20/16 cores would result in 2.4/2.5/2.7 GHz operating points	
NOTE: Ships with High Performance Heatsink.	
HPE DL360 Gen10 Intel Xeon-Platinum 8256 (3.8GHz/4-core/105W) FIO Processor Kit	P02655-L21
NOTE: Ships with High Performance Heatsink.	
HPE DL360 Gen10 Intel Xeon-Platinum 8253 (2.2GHz/16-core/125W) FIO Processor Kit	P02652-L21
1st Generation Intel Xeon-Platinum	
HPE DL360 Gen10 Intel Xeon-Platinum 8180M (2.5GHz/28-core/205W) FIO Processor Kit	876099-L21
NOTE: Ships with High Performance Heatsink.	

Configuration Information - Factory Integrated Models

HPE DL360 Gen10 Intel Xeon-Platinum 8180 (2.5GHz/28-core/205W) FIO Processor Kit   867988-L21
NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8176 (2.1GHz/28-core/165W) FIO Processor Kit   870982-L21
NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8170 (2.1GHz/26-core/165W) FIO Processor Kit   870980-L21
NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8168 (2.7GHz/24-core/205W) FIO Processor Kit   870978-L21
NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8165 (2.3GHz/24-core/205W) FIO Processor Kit   879121-L21
NOTE: Ships with Performance Heatsink.
NOTE: Requires the High Performance Fan Kit (871244-B21)
NOTE: Supports "Core boosting" Learn more **http://www.hpe.com/info/ist**.
NOTE: To enable this feature an iLO Advanced, or iLO Advanced Premium Security edition License are required.

HPE DL360 Gen10 Intel Xeon-Platinum 8164 (2.0GHz/26-core/150W) FIO Processor Kit   870976-L21
NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8160M (2.1GHz/24-core/150W) FIO Processor Kit   876093-L21
NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8160 (2.1GHz/24-core/150W) FIO Processor Kit   870974-L21
NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8158 (3.0GHz/12-core/150W) FIO Processor Kit   874455-L21
NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Platinum 8156 (3.6GHz/4-core/105W) FIO Processor Kit   874452-L21
NOTE: Ships with High Performance Heatsink.

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

2nd Generation Intel Xeon-Gold

HPE DL360 Gen10 Intel Xeon-Gold 6262V (1.9GHz/24-core/135W) FIO Processor Kit   P11842-L21
NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6254 (3.1GHz/18-core/200W) FIO Processor Kit   P02649-L21
NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6252 (2.1GHz/24-core/150W) FIO Processor Kit   P02646-L21
NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6252N (2.3GHz/24-core/150W) FIO Processor Kit   P11851-L21
NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6248 (2.5GHz/20-core/150W) FIO Processor Kit   P02640-L21
NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6246 (3.3GHz/12-core/165W) FIO Processor Kit   P15443-L21
NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6244 (3.6GHz/8-core/150W) FIO Processor Kit   P02634-L21
NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6242 (2.8GHz/16-core/150W) FIO Processor Kit   P02628-L21
NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6240 (2.6GHz/18-core/150W) FIO Processor Kit   P02625-L21
NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6240Y (2.6GHz/18-14-8-core/150W) FIO Processor Kit   P02613-L21
NOTE: 18/14/8 cores would result in 2.6/2.8/3.1 GHz operating points

Configuration Information - Factory Integrated Models

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6230 (2.1GHz/20-core/125W) FIO Processor Kit	P02607-L21
HPE DL360 Gen10 Intel Xeon-Gold 6230N (2.3GHz/20-core/125W) FIO Processor Kit	P11848-L21
HPE DL360 Gen10 Intel Xeon-Gold 6226 (2.7GHz/12-core/125W) FIO Processor Kit	P02601-L21
HPE DL360 Gen10 Intel Xeon-Gold 6222V (1.8GHz/20-core/115W) FIO Processor Kit	P11839-L21
HPE DL360 Gen10 Intel Xeon-Gold 6212U (2.4GHz/24-core/165W) FIO Processor Kit	P02667-L21

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6209U (2.1GHz/20-core/125W) FIO Processor Kit	P02622-L21
HPE DL360 Gen10 Intel Xeon-Gold 5222 (3.8GHz/4-core/105W) FIO Processor Kit	P02709-L21

NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 5220 (2.2GHz/18-core/125W) FIO Processor Kit	P02595-L21
HPE DL360 Gen10 Intel Xeon-Gold 5220S (2.7GHz/18-core/125W) FIO Processor Kit	P02577-L21
HPE DL360 Gen10 Intel Xeon-Gold 5218 (2.3GHz/16-core/125W) FIO Processor Kit	P02592-L21
HPE DL360 Gen10 Intel Xeon-Gold 5218N (2.3GHz/16-core/110W) FIO Processor Kit	P11845-L21

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

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

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

HPE DL360 Gen10 Intel Xeon-Gold 5217 (3.0GHz/8-core/115W) FIO Processor Kit	P02589-L21
HPE DL360 Gen10 Intel Xeon-Gold 5215 (2.5GHz/10-core/85W) FIO Processor Kit	P02586-L21
HPE DL360 Gen10 Intel Xeon-Gold 5215L (2.5GHz/10-core/85W) FIO Processor Kit	P02706-L21
HPE DL360 Gen10 Intel Xeon-Gold 5215M (2.5GHz/10-core/85W) FIO Processor Kit	P02568-L21

1st Generation Intel Xeon-Gold

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

Configuration Information - Factory Integrated Models

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.
NOTE: Requires the High Performance Fan Kit (871244-B21)
NOTE: Supports "Core boosting" Learn more **http://www.hpe.com/info/ist**.
NOTE: To enable this feature an iLO Advanced, or iLO Advanced Premium Security edition License are required.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6126 (2.6GHz/12-core/125W) FIO Processor Kit	860683-L21
HPE DL360 Gen10 Intel Xeon-Gold 5122 (3.6GHz/4-core/105W) FIO Processor Kit	860679-L21

NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 5120 (2.2GHz/14-core/105W) FIO Processor Kit	860665-L21
HPE DL360 Gen10 Intel Xeon-Gold 5118 (2.3GHz/12-core/105W) FIO Processor Kit	860663-L21
HPE DL360 Gen10 Xeon-G 5117 FIO Kit	P00793-L21
HPE DL360 Gen10 Intel Xeon-Gold 5115 (2.4GHz/10-core/85W) FIO Processor Kit	860661-L21

2nd Generation Intel Xeon- Silver

HPE DL360 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) FIO Processor Kit	P02583-L21
HPE DL360 Gen10 Intel Xeon-Silver 4215 (2.5GHz/8-core/85W) FIO Processor Kit	P02598-L21
HPE DL360 Gen10 Intel Xeon-Silver 4214Y (2.2GHz/12-10-8-core/85W) FIO Processor Kit	P02610-L21

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

HPE DL360 Gen10 Intel Xeon-Silver 4214 (2.2GHz/12-core/85W) FIO Processor Kit	P02580-L21
HPE DL360 Gen10 Intel Xeon-Silver 4210 (2.2GHz/10-core/85W) FIO Processor Kit	P02574-L21
HPE DL360 Gen10 Intel Xeon-Silver 4208 (2.1GHz/8-core/85W) FIO Processor Kit	P02571-L21

1st Generation Intel Xeon-Silver

HPE DL360 Gen10 Intel Xeon-Silver 4116 (2.1GHz/12-core/85W) FIO Processor Kit	874449-L21
HPE DL360 Gen10 Intel Xeon-Silver 4114 (2.2GHz/10-core/85W) FIO Processor Kit	860657-L21

Configuration Information - Factory Integrated Models

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

2nd Generation Intel Xeon- Bronze

HPE DL360 Gen10 Intel Xeon-Bronze 3204 (1.9GHz/6-core/85W) FIO Processor Kit	P02565-L21

1st Generation Intel Xeon-Bronze

HPE DL360 Gen10 Intel Xeon-Bronze 3106 (1.7GHz/8-core/85W) FIO Processor Kit	860651-L21
HPE DL360 Gen10 Intel Xeon-Bronze 3104 (1.7GHz/6-core/85W) FIO Processor Kit	860649-L21

Step 2b: Choose Memory Options

Please select one or more memory from below.

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

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

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

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

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

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

Registered DIMMs (RDIMMs) for 2nd Generation Intel Xeon Scalable Series

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

Registered DIMMs (RDIMMs) for 1st Generation Intel Xeon Scalable Series

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

Load Reduced DIMMs (LRDIMMs) for 2nd Generation Intel Xeon Scalable Series

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

Load Reduced DIMMs (LRDIMMs) for 1nd Generation Intel Xeon Scalable Series

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

HPE Persistent Memory

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

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

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

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

HPE Persistent Memory (NVDIMM)

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

Configuration Information - Factory Integrated Models

NOTE: A maximum of 12 NVDIMMs supported with 1st Generation Intel Xeon Scalable Processors ONLY and can only be mixed with RDIMMs.
NOTE: For General Server Memory and NVDIMM Population Rules and Guidelines for Gen10 see details here:
http://www.hpe.com/docs/memory-population-rules

Step 2c: Choose Power Supplies

Please select one or two power supplies from below.
NOTE: Mixing of 2 different power supplies is NOT supported.

HPE Flex Slot Power Supplies

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

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

Step 3: Choose Additional (FIO) Factory Integratable Options

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

HPE Gen10 TPM 1.2 FIO Setting	872108-B21

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

HPE Legacy FIO Mode Setting	758959-B22

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

HPE Converged Infrastructure Management Software

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

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

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Core Options

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

HPE Unique Options

Risers

HPE DL360 Gen10 Low Profile Riser Kit   867982-B21
HPE DL360 Gen10 SATA M.2 2280 Riser Kit   867978-B21
HPE DL360 Gen10 2P Full Height Riser and GPU Enablement Kit   867980-B21
NOTE: This kit is not available on the 10 NVMe model.

Riser Information*

Part number	Description	Riser position		Slot Bus width (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
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.
[1]Included on 2SFF NVMe Backplane Kit (871242-B21)
[2]Included on 10SFF chassis (867960-B21 & 875967-B21) or 10SFF Premium backplane kit (867974-B21)
[3]Included on 10SFF chassis (867960-B21 & 875967-B21)
[4]When secondary full height kit is installed, then primary PCIe Slot #2 cannot be used. Only 2 full height slots are supported.
NOTE: *For additional details on ProLiant DL Gen10 server risers
please visit: **https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=a00043229enw**

Core Options

Performance Cooling Options

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

Universal Media Bay Options

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

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

HPE DL360 Gen10 LFF Display Port and USB Kit	868004-B21

Optical Drive Options

HPE Mobile USB DVD-RW Optical Drive	701498-B21

NOTE: This kit is supported on USB 3.0 ports only.

HPE 9.5mm SATA DVD-ROM Optical Drive	726536-B21
HPE 9.5mm SATA DVD-RW Optical Drive	726537-B21

System Insight Display Options

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

Rear Drive Option Kit

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

10 NVMe chassis Upgrade Kit

HPE DL360 Gen10 10SFF Premium Backplane Kit	867974-B21

NOTE: This kit is supported on the 8SFF model only.

Security

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

Cable Kits

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

Core Options

HPE Processors

NOTE: Mixing of 2 different processor models is not supported.
NOTE: For second processor, -B21 will add 2 additional fans (for 4 LFF and 8 SFF CTO Server). 10 NVMe CTO Server will always get 7 High Performane fans regardless of 1 or 2 processors.
NOTE: Processors with 130W or higher will ship with the High Performance heat sink plus SKUs 8256, 5222, 8156, 6128, 5122 as noted below. All other processors will ship with the Standard heat sink.
NOTE: When 2nd Generation Intel Xeon Scalable Processor is slected, then only DDR4-2933 Memory Kit can be selected; When 1st Generation Intel Xeon Scalable Processor is selected, then only DDR4-2666 Memory Kit can be selected

2nd Generation Intel Xeon-Platinum

HPE DL360 Gen10 Intel Xeon-Platinum 8280 (2.7GHz/28-core/205W) Processor Kit   P02679-B21
NOTE: Ships with High Performance Heatsink.
HPE DL360 Gen10 Intel Xeon-Platinum 8280L (2.7GHz/28-core/205W) Processor Kit   P02718-B21
NOTE: Ships with High Performance Heatsink.
HPE DL360 Gen10 Intel Xeon-Platinum 8280M (2.7GHz/28-core/205W) Processor Kit   P02703-B21
NOTE: Ships with High Performance Heatsink.
HPE DL360 Gen10 Intel Xeon-Platinum 8276 (2.2GHz/28-core/165W) Processor Kit   P02676-B21
NOTE: Ships with High Performance Heatsink.
HPE DL360 Gen10 Intel Xeon-Platinum 8276L (2.2GHz/28-core/165W) Processor Kit   P02715-B21
NOTE: Ships with High Performance Heatsink.
HPE DL360 Gen10 Intel Xeon-Platinum 8276M (2.2GHz/28-core/165W) Processor Kit   P02700-B21
NOTE: Ships with High Performance Heatsink.
HPE DL360 Gen10 Intel Xeon-Platinum 8270 (2.7GHz/26-core/205W) Processor Kit   P02673-B21
NOTE: Ships with High Performance Heatsink.
HPE DL360 Gen10 Intel Xeon-Platinum 8268 (2.9GHz/24-core/205W) Processor Kit   P02670-B21
NOTE: Ships with High Performance Heatsink.
HPE DL360 Gen10 Intel Xeon-Platinum 8260 (2.4GHz/24-core/165W) Processor Kit   P02661-B21
NOTE: Ships with High Performance Heatsink.
HPE DL360 Gen10 Intel Xeon-Platinum 8260L (2.4GHz/24-core/165W) Processor Kit   P02712-B21
NOTE: Ships with High Performance Heatsink.
HPE DL360 Gen10 Intel Xeon-Platinum 8260M (2.4GHz/24-core/165W) Processor Kit   P02694-B21
NOTE: Ships with High Performance Heatsink.
HPE DL360 Gen10 Intel Xeon-Platinum 8260Y (2.4GHz/24-20-16-core/165W) Processor Kit   P02682-B21
NOTE: 24/20/16 cores would result in 2.4/2.5/2.7 GHz operating points
NOTE: Ships with High Performance Heatsink.
HPE DL360 Gen10 Intel Xeon-Platinum 8256 (3.8GHz/4-core/105W) Processor Kit   P02655-B21
NOTE: Ships with High Performance Heatsink.
HPE DL360 Gen10 Intel Xeon-Platinum 8253 (2.2GHz/16-core/125W) Processor Kit   P02652-B21

1st Generation Intel Xeon-Platinum

HPE DL360 Gen10 Intel Xeon-Platinum 8180M (2.5GHz/28-core/205W) Processor Kit   876099-B21
NOTE: Ships with Performance Heatsink.
HPE DL360 Gen10 Intel Xeon-Platinum 8180 (2.5GHz/28-core/205W) Processor Kit   867988-B21
NOTE: Ships with Performance Heatsink.
HPE DL360 Gen10 Intel Xeon-Platinum 8176 (2.1GHz/28-core/165W) Processor Kit   870982-B21

Core Options

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.
NOTE: Requires the High Performance Fan Kit (871244-B21)
NOTE: Supports "Core boosting" Learn more **http://www.hpe.com/info/ist**.
NOTE: To enable this feature an iLO Advanced, or iLO Advanced Premium Security edition License are required.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

NOTE: Ships with Performance Heatsink.

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

2nd Generation Intel Xeon-Gold

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: 18/14/8 cores would result in 2.6/2.8/3.1 GHz operating points
NOTE: Ships with High Performance Heatsink.

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

Core Options

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6230 (2.1GHz/20-core/125W) Processor Kit	P02607-B21
HPE DL360 Gen10 Intel Xeon-Gold 6230N (2.3GHz/20-core/125W) Processor Kit	P11848-B21
HPE DL360 Gen10 Intel Xeon-Gold 6226 (2.7GHz/12-core/125W) Processor Kit	P02601-B21
HPE DL360 Gen10 Intel Xeon-Gold 6222V (1.8GHz/20-core/115W) Processor Kit	P11839-B21
HPE DL360 Gen10 Intel Xeon-Gold 6212U (2.4GHz/24-core/165W) Processor Kit	P02667-B21

NOTE: Ships with High Performance Heatsink.

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

NOTE: Ships with High Performance Heatsink.

HPE DL360 Gen10 Intel Xeon-Gold 6209U (2.1GHz/20-core/125W) Processor Kit	P02622-B21
HPE DL360 Gen10 Intel Xeon-Gold 5222 (3.8GHz/4-core/105W) Processor Kit	P02709-B21
HPE DL360 Gen10 Intel Xeon-Gold 5220 (2.2GHz/18-core/125W) Processor Kit	P02595-B21
HPE DL360 Gen10 Intel Xeon-Gold 5220 (2.2 GHz/18-core/125W) Processor Kit	
HPE DL360 Gen10 Intel Xeon-Gold 5220S (2.7GHz/18-core/125W) Processor Kit	P02577-B21
HPE DL360 Gen10 Intel Xeon-Gold 5218 (2.3GHz/16-core/125W) Processor Kit	P02592-B21
HPE DL360 Gen10 Intel Xeon-Gold 5218N (2.3GHz/16-core/110W) Processor Kit	P11845-B21

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

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

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

HPE DL360 Gen10 Intel Xeon-Gold 5217 (3.0GHz/8-core/115W) Processor Kit	P02589-B21
HPE DL360 Gen10 Intel Xeon-Gold 5215 (2.5GHz/10-core/85W) Processor Kit	P02586-B21
HPE DL360 Gen10 Intel Xeon-Gold 5215L (2.5GHz/10-core/85W) Processor Kit	P02706-B21
HPE DL360 Gen10 Intel Xeon-Gold 5215M (2.5GHz/10-core/85W) Processor Kit	P02568-B21

1st Generation Intel Xeon-Gold

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

NOTE: Ships with Performance Heatsink

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

NOTE: Ships with Performance Heatsink

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

NOTE: Ships with Performance Heatsink

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

NOTE: Ships with Performance Heatsink

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

Core Options

NOTE: Ships with Performance Heatsink

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

NOTE: Ships with Performance Heatsink

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

NOTE: Ships with Performance Heatsink.
NOTE: Requires the High Performance Fan Kit (871244-B21)
NOTE: Supports "Core boosting" Learn more **http://www.hpe.com/info/ist**.
NOTE: To enable this feature an iLO Advanced, or iLO Advanced Premium Security edition License are required.

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

NOTE: Ships with Performance Heatsink

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

NOTE: Ships with Performance Heatsink

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

NOTE: Ships with Performance Heatsink

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

NOTE: Ships with Performance Heatsink

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

NOTE: Ships with Performance Heatsink

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

NOTE: Ships with Performance Heatsink

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

NOTE: Ships with Performance Heatsink

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

NOTE: Ships with Performance Heatsink

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

NOTE: Ships with Performance Heatsink

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

NOTE: Ships with Performance Heatsink

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

NOTE: Ships with Performance Heatsink

HPE DL360 Gen10 Intel Xeon-Gold 5120 (2.2GHz/14-core/105W) Processor Kit	860665-B21
HPE DL360 Gen10 Intel Xeon-Gold 5118 (2.3GHz/12-core/105W) Processor Kit	860663-B21
HPE DL360 Gen10 Xeon-G 5117 Kit	P00793-B21
HPE DL360 Gen10 Intel Xeon-Gold 5115 (2.4GHz/10-core/85W) Processor Kit	860661-B21

2nd Generation Intel Xeon-Silver

HPE DL360 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) Processor Kit	P02583-B21
HPE DL360 Gen10 Intel Xeon-Silver 4215 (2.5GHz/8-core/85W) Processor Kit	P02598-B21
HPE DL360 Gen10 Intel Xeon-Silver 4214Y (2.2GHz/12-10-8-core/85W) Processor Kit	P02610-B21

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

HPE DL360 Gen10 Intel Xeon-Silver 4214 (2.2GHz/12-core/85W) Processor Kit	P02580-B21
HPE DL360 Gen10 Intel Xeon-Silver 4210 (2.2GHz/10-core/85W) Processor Kit	P02574-B21
HPE DL360 Gen10 Intel Xeon-Silver 4208 (2.1GHz/8-core/85W) Processor Kit	P02571-B21

1st Generation Intel Xeon-Silver

HPE DL360 Gen10 Intel Xeon-Silver 4116 (2.1GHz/12-core/85W) Processor Kit	874449-B21
HPE DL360 Gen10 Intel Xeon-Silver 4114 (2.2GHz/10-core/85W) Processor Kit	860657-B21

Core Options

HPE DL360 Gen10 Intel Xeon-Silver 4112 (2.6GHz/4-core/85W) Processor Kit	860659-B21
HPE DL360 Gen10 Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) Processor Kit	860653-B21
HPE DL360 Gen10 Intel Xeon-Silver 4108 (1.8GHz/8-core/85W) Processor Kit	860655-B21

2nd Generation Intel Xeon- Bronze

HPE DL360 Gen10 Intel Xeon-Bronze 3204 (1.9GHz/6-core/85W) Processor Kit	P02565-B21

1st Generation Intel Xeon-Bronze

HPE DL360 Gen10 Intel Xeon-Bronze 3106 (1.7GHz/8-core/85W) Processor Kit	860651-B21
HPE DL360 Gen10 Intel Xeon-Bronze 3104 (1.7GHz/6-core/85W) Processor Kit	860649-B21

HPE Memory

For new Gen10 memory population rule whitepaper and optimal memory performance guidelines, please go to:
https://www.hpe.com/docs/memory-population-rules
For Gen10 memory speed table, please go to: **https://www.hpe.com/docs/memory-speed-table**
For memory Reliability, Accessibility, Serviceability (RAS) features whitepaper like Gen10 Fast Fault Tolerance and legacy mirrored memory feature etc. please go to: **http://www.hpe.com/docs/memory-ras-feature**
NOTE: Maximum memory capacity and speed per processor is dependent on processor model selection or limitation.
NOTE: DDR4-2933 Memory Kits are only supported with 2nd Generation Intel Xeon Scalable Series Processors and DDR4-2666 Memory Kits are only supported with 1st Generation Intel Xeon Scalable Series Processors.

HPE DDR4 Memory

Registered DIMMs (RDIMMs) for 2nd Generation Intel Xeon Scalable Series

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

Registered DIMMs (RDIMMs) for 1st Generation Intel Xeon Scalable Series

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

Load Reduced DIMMs (LRDIMMs) for 2nd Generation Intel Xeon Scalable Series

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

Load Reduced DIMMs (LRDIMMs) for 1nd Generation Intel Xeon Scalable Series

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

HPE Persistent Memory

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

NOTE: A maximum of 12 HPE Persistent Memory Kits supported with 2nd Generation Intel Xeon Scalable Processors (Platinum 8200, Gold 6200, Gold 5200, and 4215 **only**)
NOTE: For additional information regarding HPE Persistent Memory Population Rules visit: **http://www.hpe.com/docs/memory-population-rules**

Core Options

HPE Persistent Memory (NVDIMM)

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

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

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

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

HPE Drives

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

Enterprise - 12G SAS - SFF Drives

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

Midline - 12G SAS - LFF Drives

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

Midline - 12G SAS - SFF Drives

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

Midline - 6G SATA - LFF Drives

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

Midline 6G SATA - SFF Drives

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

SSD Selection

For SSD selection guidance, please visit **https://ssd.hpe.com/**
For SSDs with optimal product availability, HPE advocates SSDs from the list located here:

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

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

Core Options

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

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

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

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

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

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

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

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

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

Read Intensive - SATA - SFF - Solid State Drives

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

Core Options

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

Read Intensive - SATA - LFF - Solid State Drives

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

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

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

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

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

Mixed Use - SATA - SFF - Solid State Drives

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

Mixed Use - SATA - LFF - Solid State Drives

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

Internal Dual M.2 Kit

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

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

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

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

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

QuickSpecs   **HPE ProLiant DL360 Gen10 Server**

Core Options

HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD	875498-B21
Mixed Use - M.2 - Solid State Drives (2280 type)	
HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875490-B21
HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875488-B21

Hard Drive Blank Kits	
HPE Large Form Factor Hard Drive Blank Kit	666986-B21
HPE Small Form Factor Hard Drive Blank Kit	666987-B21

HPE Networking

100 Gigabit Ethernet adapters

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

25 Gigabit Ethernet adapters

HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter	817753-B21
HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	817718-B21
HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter	867328-B21

10 Gigabit Ethernet adapters

HPE Ethernet 10Gb 2-port 562T Adapter	817738-B21
HPE Ethernet 10Gb 2-port 562SFP+ Adapter	727055-B21
HPE Ethernet 10Gb 2-port 548SFP+ Adapter	P11338-B21
HPE Ethernet 10Gb 2-port 535T Adapter	813661-B21
HPE Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
HPE Ethernet 10Gb 2-port 524SFP+ Adapter	P08446-B21
HPE Ethernet 10Gb 2-port 530T Adapter	656596-B21
HPE Ethernet 10Gb 2-port 521T Adapter	867707-B21

1 Gigabit Ethernet adapters

HPE Ethernet 1Gb 4-port 366T Adapter	811546-B21
HPE Ethernet 1Gb 4-port 331T Adapter	647594-B21
HPE Ethernet 1Gb 2-port 361T Adapter	652497-B21
HPE Ethernet 1Gb 2-port 332T Adapter	615732-B21

FlexibleLOM Adapters

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

HPE InfiniBand

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

Core Options

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

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

HPE Power Supplies

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

All pre-configured servers ship with a standard 6-foot IEC C-13/C-14 jumper cord (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

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

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

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

Core Options

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

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

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

1 - With standard system fans

2 - With High Performance system fans

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

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

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

HPE Computation and Graphics Accelerators

Intel Arria 10 GX FPGA Accelerator   Q9B37A

HPE NVIDIA Tesla T4 16GB Computational Accelerator   R0W29A

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

HPE NVIDIA Quadro P4000 Graphics Accelerator   Q0V78A

HPE NVIDIA Quadro P2000 Graphics Accelerator   Q0V77A

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

HPE DL360 Gen10 GPU CPU1 Cable Kit   871248-B21

Additional Options

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

Embedded Management

HPE iLO Advanced

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

HPE Converged Infrastructure Management Software

HPE OneView Advanced (with HPE iLO Advanced)

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

HPE OneView Advanced (without HPE iLO Advanced)

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

NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: **https://www.hpe.com/us/en/integrated-systems/software.html**
NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.
NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: **https://www.hpe.com/us/en/integrated-systems/software.html**

HPE PCIe Workload Accelerator Options

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

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

HPE Security

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

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

HPE Trusted Platform Module 2.0 Gen10 Option	864279-B21

Additional Options

NOTE: HPE Trusted Platform Module 2.0 option works with Gen10 servers with UEFI Mode not Legacy Mode. It is not compatible with HPE ProLiant Gen8 servers or earlier generation variants.
NOTE: HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.

HPE Storage Controllers

NOTE: For additional details, please see HPE Smart Array Gen10 Controllers Data Sheet at:
https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=a00017196ENW

HPE Flexible Smart Array Controllers

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

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

HPE Smart Array Controllers

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

NOTE: SFF only, not supported on LFF chassis.
NOTE: Not supported on slot 3.

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

NOTE: Not supported on slot 3.

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

NOTE: Not supported on slot 3.

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

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

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

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

HPE Cable Options

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

NOTE: SFF only, not supported on LFF chassis.

HPE DL360 Gen10 LFF Internal Cable Kit	873869-B21

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

Optional Software

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

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

Additional Options

HPE Storage Options

Emulex Fibre Channel HBAs

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

QLogic Fibre Channel HBAs

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

Converged Network Adapter

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

HPE Rack Options

Rail Kits

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

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

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

NOTE: HPE rail kits contain telescoping rails which allow for in-rack serviceability.
NOTE: Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.

HPE Racks

Please see the **HPE Advanced Series Racks** QuickSpecs for information on additional racks options and rack specifications.
Please see the **HPE Enterprise Series Racks QuickSpecs** for information on additional racks options and rack specifications.

Additional Options

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

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

HPE USB and SD Options
HPE Enterprise Mainstream Flash Media Kits for Memory Cards

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

HPE Support Services
Installation & Start-up Services

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

Proactive Care

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

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

Memory

Memory Population guidelines
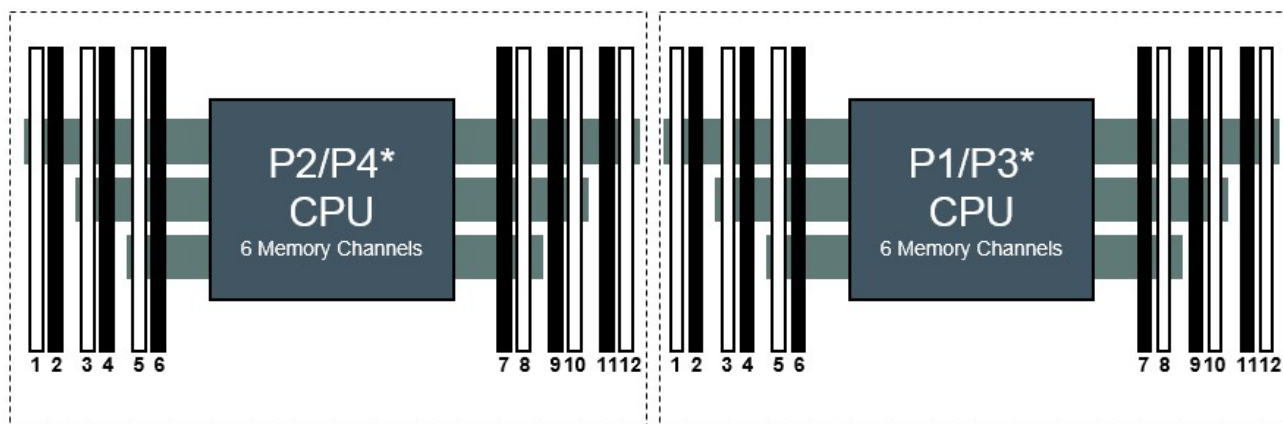
HPE Gen10 DL360 / DL380 / DL560* Servers Front Server2 Slots per Channel

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

HPE ProLiant Gen10 12 slot per CPU DIMM population order

General Memory Population Rules and Guidelines:

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

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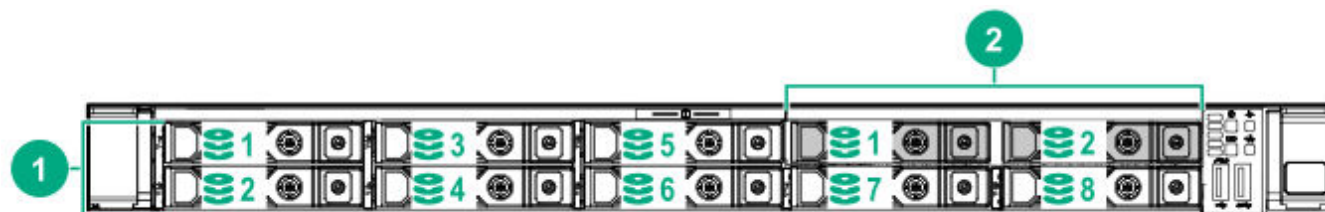For details on the HPE Server Memory speed, visit: **https://www.hpe.com/docs/memory-speed-table**

Storage
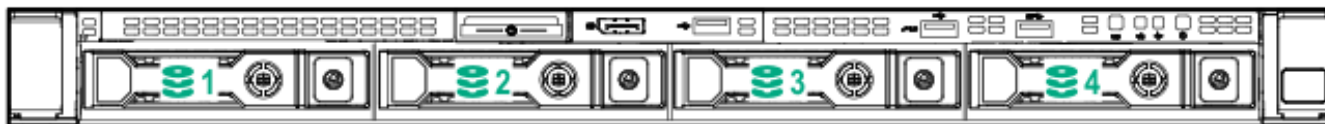
4 LFF device bay numbering

8 SFF + ODD device bay numbering
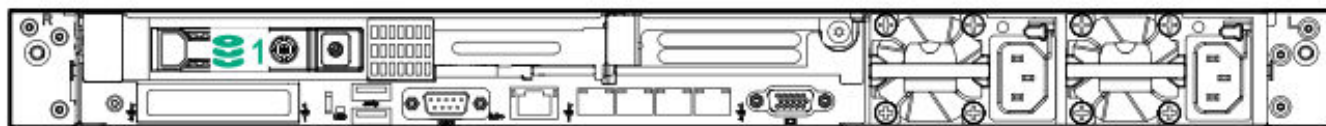

8 SFF + 2 SFF device bay numbering

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

10 SFF NVMe/SAS backplane option device bay numbering

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

Optional rear device bay numbering

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

Technical Specifications

System Unit

Dimensions (Height x Width x Depth)

SFF Drives
4.29 x 43.46 x 70.7 cm
1.69 x 17.11 x 27.83 in

LFF Drives
4.29 x 43.46 x 74.98 cm
1.69 x 17.11 x 29.5 in

Weight (approximate)

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

Input Requirements (per power supply)

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

BTU Rating

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

Technical Specifications

Power Supply Output (per power supply)

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

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

System Inlet Temperature

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

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

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

Extended Ambient Operating Support
For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL:
http://www.hpe.com/servers/ashrae
System performance may be reduced if operating in the extended ambient operating range or with a fan fault.

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).

Technical Specifications

Acoustic Noise

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

Configuration SKU	Entry	Base	Performance
Idle			
LWAd	5.1 B	5.1 B	5.2 B
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

HPE Smart Array

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

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

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

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

Summary of Changes

Date	Version History	Action	Description of Change
01-Jul-2019	Version 24	Changed	The 5218N wattage has changed from 105 to 110W TDP. The U.S. version of QuickSpecs is no longer being updated, please reference the Worldwide QuickSpecs for latest information.
03-Jun-2019	Version 23	Changed	Standard Features, SMB Models, Pre-configured Models, China Specific, Configuration Information, Additional Options and Core Options sections were updated. SKUs were added. Obolete SKUs were removed
15-Apr-2019	Version 22	Changed	Overview, Standard Features, SMB Models, Pre-configured Models, China Specific, Configuration Information and Core Options sections were updated.
02-Apr-2019	Version 21	Changed	Overview, Standard Features and Pre-configured Models sections were updated.
04-Feb-2019	Version 20	Changed	Overview, Standard Features, Configuration Information, Core Options and Optional Features sections were updated.
03-Dec-2018	Version 19	Changed	Overview, Standard Features, Pre-configured Models, Core Options and Storage sections were Updated.
15-Oct-2'018	Version 18	Changed	SKUs descriptions were updated in Core Options section Obsolete SKUs were removed from Core Options section,
01-Oct-2018	Version 17	Changed	Overview, Standard Features, Configuration Information, Core Options, Additional Options, and Memory sections were updated. SKU descriptions were updated.
13-Aug-2018	Version 16	Changed	Maximum Storage and Additional Options were revised.
06-Aug-2018	Version 15	Changed	Added new AMD and NVIDIA Graphics card options. Added new Smart Array P824i-p MR Gen10 (24 Internal Lanes/4GB Cache/CacheCade) 12G SAS PCIe Controller. Added new Solid State Drives offering. Pre-Confiured Models, Core Options, and Additional Options were revised. Obsolete SKUs were removed from the QuickSpecs.
11-Jun-2018	Version 14	Changed	Smart Buy Models section for the NA version was revised.
04-Jun-2018	Version 13	Changed	New SSD offering was added to the HPE Drivers section. Core Options, Additional Options, and Memory were revised. Obsolete SKUs were removed from the QuickSpecs.
07-May-2018	Version 12	Changed	New SMB models offering was added. Riser Information and power supply section were revised. Obsolete SKUs were removed from the QuickSpecs.
02-Apr-2018	Version 11	Changed	Standard Features, Core Options and Additional Options were revised. Obsolete SKUs were removed from the QuickSpecs.
05-Mar-2018	Version 10	Removed	Obsolete SKUs were removed from the QuickSpecs.
05-Feb-2018	Version 9	Added	Added new SATA SSDs, NVMe drives and PCIe accelerator cards.
18-Dec-2017	Version 8	Changed	Network controller under Configuration Information – Factory Integrated Models section was revised.
04-Dec-2017	Version 7	Changed	Added new Entry level WW Model-1 sku. 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. Standard Features, Pre-configured Models, Core Options, Additional Options, Memory, and Acoustic Noise were revised.
23-Oct-2017	Version 6	Changed	Memory speed table was updated to display the 61XX processors running at 2666MT/s.

Summary of Changes

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

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