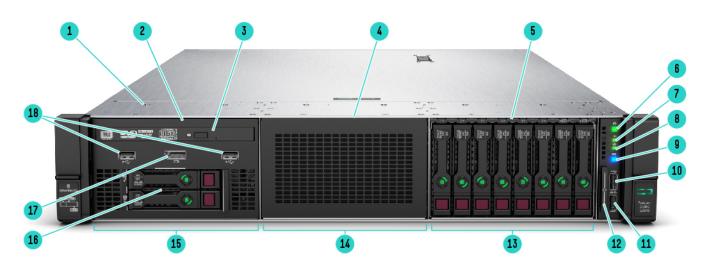
QuickSpecs

Overview

HPE ProLiant DL560 Gen10 Server

The HPE ProLiant DL560 Gen10 Server is a high-density, four-socket (4S) server with high performance, scalability and reliability, all in a 2U chassis. Supporting the latest Intel[®] Xeon[®] Scalable processors, the HPE ProLiant DL560 Gen10 Server offers greater processing power, up to 6 TB of faster memory, IO of up to eight PCIe 3.0 slots, plus the intelligence and simplicity of automated management with HPE OneView and HPE iLO 5.

The HPE ProLiant DL560 Gen10 Server is the ideal server for business critical workloads, virtualization, server consolidation, database, business processing, and general 4P data-intensive applications where data center space and the right performance are paramount.



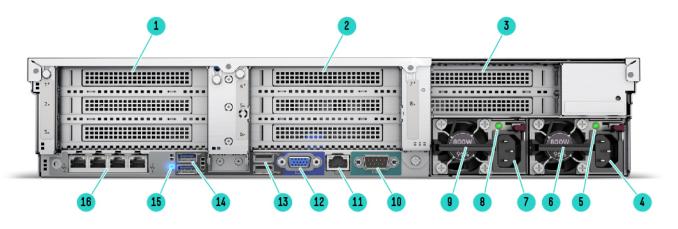
Front View - DL560 Gen10

- 1. Quick removal access panel
- 3. Optional Optical drive. Requires Universal Media bay
- 5. Drive Bos 3. (8 SFF, 6SFF+2NVMe optional)
- 7. Health LED
- 9. UID button
- 11. USB 3.0
- 13. Box 3
- 15. Box 1
- 17. Optional front display port (via Universal Media Bay)

- 2. Optional Universal Media bay. 2 USB 2.0 and VGA standard (8 SFF bay or 6 SFF+2NVMe optional)
- 4. Drive Box 2. (8 SFF, 6SFF+2NVMe or 8 NVMe PCIe SSD optional)
- 6. Power On/Standby button and system power LED button
- 8. NIC status
- 10. iLO Front Service Port
- 12. Serial label pull tag
- 14. Box 2
- 16. Optional 2 SFF HDD, requires optional Universal Media bay
- 18. Optional USB 2.0 (via Universal Media Bay)



Overview

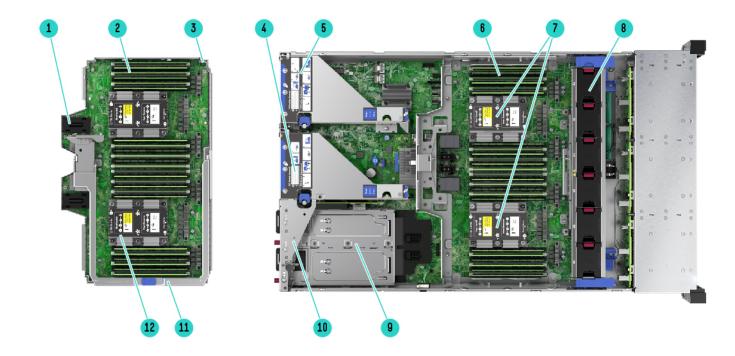


Rear View – DL560 Gen10

- 1. PCIe Slots (Slots 1-3 top to bottom, riser shipped standard)
- PCIe Slots (Slots 7-8 top to bottom), requires tertiary riser card and second processor, Not available with 4x Flex Slot power supplies
- 5. Power supply power LED
- 7. Power supply power connection
- 9. HPE Flexible Slot Power Supply bay 2 (800W PS shown)
- 11. Dedicated iLO connector
- 13. USB connectors 2.0 (2)
- 15. Unit ID LED

- 2. PCIe Slots (Slots 4-6 top to bottom, requires second riser card and second processor)
- 4. Power supply power connection
- 6. HPE Flexible Slot Power Supply bay 1 (800W PS shown)
- 8. Power supply power LED
- 10. Serial connector
- 12. VGA (video) connector
- 14. USB connectors 3.0 (2)
- 16. FlexibleLOM ports (Port 1 on right side)

Overview



Internal View: DL560 Gen10 with upper CPU mezzanine tray

- 1. Left connector used for DL560 4-port NVMe Mezzanine card (Daughter card)
- 3. Upper CPU Mezzanine Board Kit
- 5. Default primary PCIe riser
- 7. 2 Processors, heatsink showing
- 9. (Under) Hot Plug redundant HPE Flexible Slot Power supplies
- 11. Handle for removing upper CPU Mezzanine Board Kit

- 2. DDR4 DIMM slots. Shown fully populated in 24 slots (12 per processor)
- 4. Optional secondary PCIe riser
- 6. DDR4 DIMM slots on upper CPU mezzanine board kit. Shown fully populated in 24 slots (12 per processor)
- 8. Fan cage shown with 6 standard Hot-plug fans
- 10. Optional Tertiary riser
- 12. 2 Processors, heatsink showing on upper CPU mezzanine board kit

What's New

- Support for new core boosting Intel® Xeon® Processors 6143 and 8165
- Support for up to 24 16GB NVDIMM
- Additional options on drives and NICs

Platform Information

Platform Information

Form Factor	2U Rack Form Factor Entry, Base and Performance pre-configured models ship with Gen10 Easy Install Rail Kits and Cable Management Assembly
Chassis Types	 24 SFF with optional Universal Media Bay NOTE: The Universal Media Bay (872267-B21) is not available with the 24 SFF front end, and can only be populated in Box 1. NOTE: The 8 SFF can be upgraded with a drive cage to 16 or 24 SFF with field upgrades. For optimal upgrade Box 2 should be populated second, with Box 1 the last to be populated for a field upgrade to 24 SFF. NOTE: All pre-configured models come with embedded software RAID support for 10 SATA drives. Optional HPE Smart Array Controllers can be added.
System Fans	6 Hot Plug Fans (with N+1 redundancy) NOTE: 6 hot plug fans are shipped as standard.

Processors

One, two or four of the following depending on model.

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

Intel Xeon Models	CPU Frequency	Cores	L3 Cache	Power	UPI	DDR4 MT/s	Memory per socket
Platinum Processors							
Platinum 8180M Processor	2.5 GHz	28	38.50 MB	205W	3 @ 10.4 GT/s	2666 MT/s	1.5 TB
Platinum 8180 Processor	2.5 GHz	28	38.50 MB	205W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Platinum 8176M Processor	2.1 GHz	28	38.50 MB	165W	3 @ 10.4 GT/s	2666 MT/s	1.5 TB
Platinum 8176 Processor	2.1 GHz	28	38.50 MB	165W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Platinum 8170M Processor	2.1 GHz	26	35.75 MB	165W	3 @ 10.4 GT/s	2666 MT/s	1.5 TB
Platinum 8170 Processor	2.1 GHz	26	35.75 MB	165W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Platinum 8168 Processor	2.7 GHz	24	33.00 MB	205W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Platinum 8165 Processor	2.3 GHz	24	33.00 MB	205W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Platinum 8164 Processor	2.0 GHz	26	35.75 MB	150W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Platinum 8160M Processor	2.1 GHz	24	33.00 MB	150W	3 @ 10.4 GT/s	2666 MT/s	1.5 TB
Platinum 8160 Processor	2.1 GHz	24	33.00 MB	150W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Platinum 8158 Processor	3.0 GHz	12	24.75 MB	150W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Platinum 8156 Processor	3.6 GHz	4	16.50 MB	105W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Platinum 8153 Processor	2.0 GHz	16	22.00 MB	125W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold Processors							
Gold 6154 Processor	3.0 GHz	18	24.75 MB	200W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6152 Processor	2.1 GHz	22	30.25 MB	140W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6150 Processor	2.7 GHz	18	24.75 MB	165W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6148 Processor	2.4 GHz	20	27.50 MB	150W	3 @ 10.4 GT/s	2666 MT/s	768 GB
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 6142M Processor	2.6 GHz	16	22.00 MB	150W	3 @ 10.4 GT/s	2666 MT/s	1.5 TB
Gold 6142 Processor	2.6 GHz	16	22.00 MB	150W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6140M Processor	2.3 GHz	18	24.75 MB	140W	3 @ 10.4 GT/s	2666 MT/s	1.5 TB
Gold 6140 Processor	2.3 GHz	18	24.75 MB	140W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6138 Processor	2.0 GHz	20	27.50 MB	125W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6136 Processor	3.0 GHz	12	24.75 MB	150W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6134M Processor	3.2 GHz	8	24.75 MB	130W	3 @ 10.4 GT/s	2666 MT/s	1.5 TB
Gold 6134 Processor	3.2 GHz	8	24.75 MB	130W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6132 Processor	2.6 GHz	14	19.25 MB	140W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6130 Processor	2.1 GHz	16	22.00 MB	125W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6128 Processor	3.4 GHz	6	19.25 MB	115W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 6126 Processor	2.6 GHz	12	19.25 MB	125W	3 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 5122 Processor	3.6 GHz	4	16.50 MB	105W	2 @ 10.4 GT/s	2666 MT/s	768 GB
Gold 5120 Processor	2.2 GHz	14	19.25 MB	105W	2 @ 10.4 GT/s	2400 MT/s	768 GB
Gold 5118 Processor	2.3 GHz	12	16.50 MB	105W	2 @ 10.4 GT/s	2400 MT/s	768 GB
Gold 5115 Processor	2.4 GHz	10	13.75 MB	85W	2 @ 10.4 GT/s	2400 MT/s	768 GB

NOTE: Platinum 8165 processor and Gold 6143 processors support core boosting technology.

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

NOTE: Gold - 2 and 4 socket capable, 2S - 2UPI, 4S - 3UPI @ 10.4 GT/s, 6-Channel DDR4 @ 2400 MHz (SKU 5122=supports 2666), 768 GB memory capacity (1.5 TB on select skus), Intel Turbo Boost Technology, Intel Hyper-Threading Technology, Intel AVX-512(1x 512-bit FMA) (SKU 5122 supports 2x 512 bit FMA), 48 lanes PCIe 3.0, advanced RAS. **NOTE:** All processors ship with a normal or a high performance heatsink.

NOTE: 61xx and 81xx processors support 3 UPI links and all processors are connected in a cross bar configuration with each processor connected to another directly in a four processor system. 51xx processors support 2 UPI links only and all processors are connected in a ring configuration with processors 1, 3 and 2, 4 not connected directly in a four processor system.

Chipset

Intel C621 Chipset **NOTE:** For more information regarding Intel® chipsets, please see the following URL: <u>http://www.intel.com/products/server/chipsets/</u>

On System Management Chipset

HPE ILO 5 ASIC

NOTE: Read and learn more in the *iLO QuickSpecs*.

Memory

One of the following depending on mode						
Туре:	SmartMemory					
	Registered (RDI	MM), Load Reduced (LRDIMM)				
DIMM Slots Available	48	12 DIMM slots per processor, 6 channels per processor, 2 DIMMs per channel				
Maximum capacity (LRDIMM)	6 TB	48 x 128 GB LRDIMM @ 2666 MT/s				
Maximum capacity (RDIMM)	1.5 TB	48 x 32 GB RDIMM @ 2666 MT/s				
Maximum capacity (NVDIMM)	384 GB	24 x 16 GB NVDIMM @ 2666 MT/s				
NOTE: Mixing of RDIMM and LRDIMM r	memory is not supported	d.				
NOTE: Memory speed depends on the p	processor selected.					
		supporting 1.5TB memory per processor.				
NOTE: Maximum of 6 NVDIMMs are su	oported per processor.					

Memory Protection

For details on the HPE Server Memory Options RAS feature, visit: <u>http://www.hpe.com/docs/memory-ras-feature</u>.

Expansion Slots					
Primary Riser (Standard)	Expansion Slots #	Technology	Bus/Connector Width	Form Factor/Connector	Notes
	1	PCIe 3.0	x8	¾ length/full height	Proc 1
	2	PCIe 3.0	X16	¾ length/full height	Proc 1
	3	PCIe 3.0	x8	¾ length/full height	Proc 1
	None	2 x M.2	SATA lanes	M.2	Chipset

Primary/Secondary Riser (Optional) 826704-B21	Expansion Slots (Primary/ Secondary) #	Technology	Bus/Connector Width	Form Factor/ Connector (Primary)	Form Factor/ Connector (Secondary)	Notes (Primary/ secondary)
	2/5	PCle 3.0	x16	¾ length/full height	Half length/full height	Proc 1/2
	3/6	PCle 3.0	x16	¾ length/full height	Half length/full height	Proc 1/2

Primary/Secondary Riser (Optional) 873418-B21	Expansion Slots (Primary/ Secondary) #	Technology	Bus/Connector Width	Form Fac	tor /Connector	Notes (Primary/ secondary)
	None	NVMe	x8		Slimline	Proc 1/2
	None	NVMe	x8		Slimline	Proc 1/2
	None	NVMe	x8		Slimline	Proc 1/2
	None	NVMe	x8		Slimline	Proc 1/2
Primary/Secondary Riser (Optional) 873420-B21	Expansion Slots (Primary/ Secondary)#	Technology	Bus/Connector Width	Form Factor/ Connector (Primary)	Form Factor/ Connector (Secondary)	Notes (Primary/ Secomdary)
	1/4	PCle 3.0	x8	¾ length/full height	Half length/full height	Proc 1/2
	2/5	PCle 3.0	x8	¾ length/full height	Half length/full height	Proc 1/2
	3/6	PCle 3.0	x8	¾ length/full height	Half length/full height	Proc 1/2
	None	NVMe	x8	Slimline	Slimline	Proc 1/2
Secondary Riser (Optional) 870548-B21	Expansion Slots #	Technology	Bus Width	n Fo	orm Factor	Notes
	4	PCle 3.0	x8	Ha	lf length/full height	Proc 2
	5	PCle 3.0	x16	Ha	lf length/full height	Proc 2
	6	PCle 3.0	x8	Ha	lf length/full height	Proc 2
Tertiary riser (Optional) 872253-B21	Expansion Slots #	Technology	Bus Width	n Fo	orm Factor	Notes
	7	PCle 3.0	x8	Ha	lf length/full height	Proc 2
	8	PCle 3.0	x8	Ha	lf length/full	Proc 2
						Page 7

Tertiary riser (Optional) 872255-B21	Expansion Slots #	Technology	Bus Width	Form Factor/Connector	Notes
	7	PCle 3.0	x8	Half length/full height	Proc 2
	None	NVMe	x8	Slimline	Proc 2
Tertiary riser (Optional)	Expansion Slots #	Technology	Bus Width	Form Factor/Connector	Notes
872257-B21	None	NVMe	x8	Slimline	Proc 2
	None	NVMe	x8	Slimline	Proc 2

height

4-port NVMe Mezzanine card (Optional)	Expansion Slots #	Technology	Bus Width	Form Factor/Connector	Notes
874633-B21	None	NVMe	x8	Slimline	Proc 3
	None	NVMe	x8	Slimline	Proc 3
	None	NVMe	x8	Slimline	Proc 3
	None	NVMe	x8	Slimline	Proc 3

NOTE: The secondary and tertiary risers need the 2nd processor to be installed.

NOTE: The expansion slots at the back are numbered in ascending order from top to bottom and from left to right. **NOTE:** Some riser kits (826704-B21, 873418-B21, 873420-B21) have FIO options with separate numbers and they do not ship with riser cages. Please review the FIO section for details.

NOTE: The optional 4-port NVMe Mezzanine card 874633-B21 supports a maximum of 8 NVMe drives and does not consume a PCIe slot. It goes on top of the HPE DL5x0 Gen10 CPU Mezzanine Board Kit (872222-B21) and requires a four processor configuration.

NOTE: The tertiary risers can only be installed when using two PSUs. There is no space for tertiary risers when the four PSU's are installed. If a secondary riser is required it needs to be ordered separately. Please refer section HPE I/O Expansion Options.

NOTE: A maximum of 1 primary, 1 secondary and 1 tertiary riser can be installed in one server.

NOTE: Slimline riser kit (873418-B21) does not contain any additional PCIe slots.

Network Controller

The HPE ProLiant DL560 Gen10 servers offer a flexible network technology - FlexibleLOMs, which offers customers a choice of 1 Gb, 10 Gb, 25 Gb or 10 Gb base-T Ethernet or converged networking in their embedded adapter. A range of NIC cards are also available to enhance networking capabilities.

NOTE: For additional details see the Networking Section of this document.

Model	Adapter
Entry Model	HPE Ethernet 1Gb 4-port 331FLR Adapter
Base Model	HPE FlexFabric 10Gb 2P 533FLR-T Adapter
Performance Model	HPE FlexFabric 10/25 Gb 2P 640FLR-SFP28 Adapter or HPE FlexFabric 10/25Gb 2P 631FLR-SFP28 Adapter

Storage Controllers

The Gen10 controller naming framework has been updated to simplify identification as depicted below. For a more detailed breakout of the available Gen10 Smart Array controllers visit the **HPE Smart Array Gen10 Controllers Data Sheet**.

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. For enabling, please select HPE FIO Enable Smart Array SW RAID (784308-B21).

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

Internal Storage Devices

One of the following deper	nding on model
Optical Drive	Optional: DVD-ROM, DVD-RW
Hard Drives	None ship standard
Hard Drive Bays	8 hot plug SFF SAS/SATA HDD Bays in Entry and Base Models 16 hot plug SFF SAS/SATA HDD Bays in Performance Models
	NOTE: Box 3 is populated by 8 SFF SAS/SATA bay and shipped as default. NOTE: The 8 NVMe drive option can only placed in Bay 2.
	NOTE: The Universal Media Bay (872267-B21) not available with the 24 SFF front end, and can only be populated in Box 1.
	NOTE: The 8 SFF can be upgraded with a drive cage to 16 or 24 SFF with field upgrades. For optimal upgrade Box 2 should be populated second, with Box 1 the last to be populated for a field upgrade to 24 SFF.
	NOTE: A maximum of 12 NVMe drives can be supported with 2 NVMe drives in Bay 1, 8 NVMe drives in Bay 2 and 2 NVMe drives in Bay 3. NOTE: All pre-configured models come with embedded software RAID support for 10
	SATA drives. Optional HPE Smart Array Controllers can be added.

Maximum Internal Storage

	CAPACITY	CONFIGURATION
Hot Plug SFF SATA HDD	48 TB	24 x 2 TB
Hot Plug SFF SAS HDD	48 TB	24 x 2 TB
Hot Plug SFF SATA SSD	92 TB	24 x 3.84 TB
Hot Plug SFF SAS SSD	184 TB	24 x 7.68 TB
SFF NVMe SSD	24 TB	12 x 2 TB

Power Supply

One of the following depending on model

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. **NOTE:** Must order 4x800W Flex Slot PSU.

NOTE: Must order 4x800W Flex Slot PSU.

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 (200VAC to 240VAC).

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 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 (416151-B21). This jumper cord is also included with each standard AC power supply option kit. If a different power cord is required, please check the **ProLiant Power Cables** web page.

To review the power requirements for your selected system, please use the HPE Power Advisor Tool.

For information on power specifications and technical content visit **HPE Server power supplies**

Interfaces	
Serial	1 rear
Video	1 front (optional with Universal Media Bay), 1 rear
HPE iLO Remote Management Network Port	1
HPE iLO Front Service Port	1
Micro SD Slot	1 (Internal), 2 (optional, internal)
NOTE: Requires the optional HPE Dual Micro	SD 8GB USB kit.
USB 2.0 Ports	4 total: 2 front (optional); 2 rear
USB 3.0 Ports	5 total: 1 front; 2 rear, 2 internal
NOTE: 2 front (optional) USB 2.0 ports need	the HPE DL560 Gen10 Universal Media Bay Kit (872267-B21).

Operating Systems and Virtualization Software Support for ProLiant Servers

Windows Server 2012 R2
Windows Server 2016
VMware ESXi 6.0 U3
VMware ESXi 6.5 and U1 upon release
Red Hat Enterprise Linux (RHEL) 6.9 and 7.3
SUSE Linux Enterprise Server (SLES) 11 SP4 and 12 SP2
CentOS 6.9 and 7.3
NOTE: Not directly supported / Community Supported (Based on RHEL so RHEL testing and enablement applicable to Cent OS) CentOS 6.9 / CentOS 7.3.

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

Industry Standard Compliance

ACPI 6.1 Compliant PCIe 3.0 Compliant WOL Support Microsoft® Logo certifications PXE Support USB 3.0 Compliant (internal); USB 2.0 Compliant (external ports via SUV) SMBIOS 3.1 UEFI 2.6 Redfish API 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@60Hz (32 bpp)
- 16MB Video Memory
- HPE iLO 5 on system management memory
- 32 MB Flash
- 4 Gbit DDR 3 with ECC protection

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 <u>http://www.hpe.com/servers/uefi</u>.

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

Server Utilities	
Active Health System	The HPE Active Health System (AHS) is an essential component of the iLO management portfolio that provides continuous, proactive health monitoring of HPE servers. Learn more at http://www.hpe.com/servers/ahs .
Active Health System Viewer	Use the Active Health System Viewer, a web-based portal, to easily read AHS logs and speed problem resolution with HPE self-repair recommendations, to learn more visit: http://www.hpe.com/servers/ahsv .
Smart Update	Keep your servers up to date with the HPE Smart Update solution by using Smart Update Manager (SUM) to optimize the firmware and driver updates of the Service Pack for ProLiant (SPP). Learn more at http://www.hpe.com/info/smartupdate .
iLO Amplifier Pack	Designed for large enterprise and service provider environments with hundreds of HPE servers, the iLO Amplifier Pack is a free, downloadable open virtual application (OVA) that delivers the power to discover, inventory and update Gen8, Gen9 and Gen10 HPE servers at unmatched speed and scale. Use with an iLO Advanced License to unlock full capabilities. Learn more at http://www.hpe.com/servers/iLOamplifierpack.
HPE iLO Mobile Application	Enables the ability to access, deploy, and manage your server anytime from 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 <u>http://www.hpe.com/info/hpesim</u> .

Security

UEFI Secure Boot and Secure Start support Immutable Silicon Root of Trust FIPS 140-2 validation (iLO 5 certification in progress) Common Criteria certification (iLO 5 certification in progress) Configurable for PCI DSS compliance Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser Support for Commercial National Security Algorithms (CNSA) iLO Security Modes including a New iLO Advance Premium Security Edition License Granular control over iLO interfaces

Smart card (PIV/CAC) and Kerberos based 2-factor Authentication

Tamper-free updates – components digitally signed and verified

Secure Recovery – recover critical firmware to known good state on detection of compromised firmware

Ability to rollback firmware

Secure erase of NAND/User data

TPM (Trusted Platform Module) 1.2 option

TPM (Trusted Platform Module) 2.0 option Bezel Locking Kit

Chassis Intrusion detection option

NOTE: HPE Trusted Platform Module 2.0 Option (864279-B21) works with Gen10 servers with UEFI Mode and not Legacy Mode. The Trusted Platform Module 2.0 Option can be configured to the 1.2 version through the UEFI BIOS to support TPM 1.2 functionality.

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

About Trusted Platform Module

Trusted Platform Module (TPM) is a separate processor that monitors the system state. TPM is a passive component needing to be updated and not able to lock down any component in the system except access to its own memory. It also provides some cryptographic operations - among them: creating RSA key pairs, and working with them.

The first verification of signatures happens by code on the CPU, which can be intercepted and replaced. Emulating a "properly" booted system is possible by sending the right values to the TPM.

HPE supports two version of TPM, the 1.2 device and the 2.0 device. The TPM 2.0 device works with Gen10 servers that are using a Linux operating system or Microsoft Windows Server 2016. Both TPM 1.2 and 2.0 are compatible with HPE ProLiant Gen9 and Gen10 servers. These TPM modules are not compatible with server generations prior to Gen9. Once the TPM module is installed, it locks into place and cannot be removed, nor can it be replaced with a different TPM device.

HPE Silicon Root of Trust

HPE's Silcon Root of Trust provides protection because as soon as the server is powered on and the iLO firmware comes alive, it looks into the silicon for the immutable fingerprint that verifies all the firmware code is valid and uncompromised. Over a million lines of firmware code run, before the operating system starts, making it essential to confirm that all server essential firmware is free from malware or compromised code.

Silicon Root of Trust is included with iLO5 Standard with all platforms that contain the iLO5 chip. That includes ML, DL, Apollo, C-Class Blades, and Synergy Compute Modules. HPE Cloudline and the HPE Microserver do not have silicon root of trust, since they do not contain an iLO5 silicon chip. This technology is NOT available on any previous version of HP ProLiant like the Gen9, Gen8, or Gen 7 servers, nor can those previous generations be retrofitted to accommodate the silicon root of trust.

The silicon validates the iLO 5 firmware code before it is fetched and executed. If any malware or compromised code has been inserted in the iLO 5 firmware, the silicon will detect that, because any infected firmware code will not match-up with the hash burned into the silicon. From there, the iLO 5 firmware validates the rest of the server firmware, namely the UEFI, CPLD, IE, and ME. The UEFI then validates the connection to the operating system, thus completing a complete root, or chain, that is anchored into the silicon.

During operation of the server, HPE has a new technology that conducts run-time firmware validation that checks the firmware stored in the server. At any point, if compromised code or malware is inserted in any of the critical firmware, an iLO audit log alert is created to notify the customer that a compromised has occurred.

In the unlikely event of a breach into the HPE server firmware, after detection has been completed, the customer may then securely recover the firmware automatically to a previous known good state. HPE provides this function through a new HPE license called, HPE iLO Advanced Premium Security Edition.

Warranty

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

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 <u>http://www.hpe.com/servers/iloadvanced</u> .
HPE iLO Advanced Premium Security Edition	HPE iLO Advanced Premium Security Edition for iLO 5 includes iLO Advanced License plus high-end security modes, unique security capabilities, like Automatic FW recovery; Runtime FW verification, and Secure erase. Learn more about HPE iLO Advanced Premium Security Edition at: <u>http://www.hpe.com/servers/ilopremium</u> .
HPE OneView Advanced	HPE OneView brings a new level of automation to infrastructure management by taking a template driven approach to provisioning, updating, and integrating compute, storage, and networking infrastructure. It provides full-featured licenses which can be purchased for managing Gen8, Gen9 and Gen10 servers. To learn more visit http://www.hpe.com/info/oneview.
HPE Insight Cluster Management Utility (CMU)	HPE Insight Cluster Management Utility is a HyperScale management framework that includes software for the centralized provisioning, management and monitoring of nodes and infrastructure. Learn more at http://www.hpe.com/info/cmu .

GPGPU Information

HPE NVIDIA Quadro P2000 Graphics Accelerator

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

Protect your business beyond warranty with HPE Support Services

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. Reduce down time and improve diagnostic accuracy with 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.

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

Parts and Materials

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

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

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

HPE Education Services

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

HPE Support Center

The HPE Support Center is a personalized online support portal with access to information, tools and experts to support HPE business products. Submit support cases online, chat with HPE experts, access support resources or collaborate with peers. Learn more <u>http://www.hpe.com/support/hpesc</u>

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

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

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

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

Pre-configured Models

	Entry	Models	Base Models
SKU Number	840369-B21	875807-B21	840370-B21
Model Name	HPE DL560 Gen10 5120 32GB 2P Entry Svr	HPE DL560 Gen10 6130 64GB 2P Entry 2 Svr	HPE DL560 Gen10 6148 128GB 4P Base Svr
Processor	Intel [®] Xeon [®] 5120	Intel® Xeon® 6130	Intel® Xeon® 6148
Number of Processors	2	2	4
Memory	32 GB (2x16GB Registered DIMMs, 2666 MT/s) NOTE: 24 DIMM slots available with Entry Model; 2 more processor slots and 24 more DIMMs available via optional HPE DL5x0 Gen10 CPU Mezzanine Board Kit (872222-B21).	64 GB (4x16GB Registered DIMMs, 2666 MT/s) NOTE: 24 DIMM slots available with Entry Model; 2 more processor slots and 24 more DIMMs available via optional HPE DL5x0 Gen10 CPU Mezzanine Board Kit (872222-B21).	128 GB (8x16GB Registered DIMMs, 2666 MT/s)
Network Controller	1 Gb 4-port 331FLR Adapter	10GbE FlexFabric 2-port 533FLR-T Adapter	10GbE FlexFabric 2-port 533FLR-T Adapter
Storage Controller	HPE Smart Array S100i Software RAID NOTE: Additional Storage controllers are available as options, to enable both SAS capability as well as provide data retention with flash-backed write cache (FBWC).	HPE Smart Array P408i-a NOTE: Additional storage controllers are available as options.	HPE Smart Array P408i-a NOTE: Additional storage controllers are available as options.
Power Supply	1x 1600W	2x 1600W	2x 1600W
PCI-Express Slots	3 PCIe 3.0 slots available NOTE: 8 PCIe 3.0 slots available with the secondary and tertiary	3 PCIe 3.0 slots available NOTE: 8 PCIe 3.0 slots available with the secondary	6 PCIe 3.0 slots available NOTE: 8 PCIe 3.0 slots available with the tertiary riser installed.
Hard Drive	riser installed.	and tertiary riser installed. None ship standard	
Internal Storage	8 SFF Drive Bays NOTE: Can be expanded up to a max of 24 SFF drives, with optional HPE DL560 Gen10 8SFF HDD Bay2 Kit (872235-B21) and HPE DL560 Gen10 8 SFF HDD Bay1 Kit (872231-B21). NOTE: Optionally NVMe SSD drives can be added with HPE DL560 Gen10 Premium 6SFF and 2 NVMe or 8 SFF Bay1 Kit (872227-B21) or HPE DL560 Gen10 Prem 6 SFF+2 NVMe Bay2 Kit(872229-B21) or HPE DL560 Gen10 Premium 6 SFF and 2 NVMe or 8 SFF Bay3 Kit (872231-B21) or HPE DL560 NVMe 8 SSD Express Bay Enablement Kit (872225-B21). NOTE: Alternatively, optional HPE DL560 Gen10 Universal Media Bay Kit.		
Optical Drive Bay	Optional via Universal Media Bay		
Optical Drive	Optional via Universal Media Bay		
Fans	6 hot plug fans, redundant		
Management	HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download); HPE iLO Advanced, HPE iLO Advanced Premium Security Edition and HPE OneView Advanced (require licenses)		
Form Factor	Rack (2U), HPE Easy Install Rails with CMA		
Warranty		pr, 3-Year Onsite support with nex	

Pre-configured Models

	Performance Models		
SKU Number	840371-B21	880173-B21	
Model Name	HPE DL560 Gen10 8170 256GB 4P Adv Svr	HPE DL560 Gen10 8164 256GB 4P Adv 2 Sv	
Processor	Intel® Xeon® 8170	Intel® Xeon® 8164	
Number of	4	4	
Processors			
Memory	256 GB (8x 16 GB Reg	istered DIMMs, 2666 MT/s)	
Network Controller	10/25Gb2p 640FLR-SFP28 Adapter	10/25Gb 2p 631FLR-SFP28 Adapter	
Storage Controller	Smart A	Smart Array P816i-a	
PCI-Express Slots	8 PCIe 3.0 slots available		
Power Supply	2x	1600W	
,	NOTE: 1600W Power supplies only support high line voltage (200VAC to 240VAC).		
Hard Drive	None ship standard		
Internal Storage	8 SFF Drive Bays		
Optical Drive Bay	None ship standard. optional via Universal Media Bay		
Optical Drive	None ship standard. optional via Universal Media Bay		
Fans	6 hot plug fans, redundant		
Management	HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires		
-	download); HPE iLO Advanced (included), HP	E iLO Advanced Premium Security Edition (require	
	licenses) and HPE One	View Advanced (included)	
Form Factor	Rack (2U), HPE Easy Install Rails with CMA		
Warranty	3-Year Parts, 3-Year Labor, 3-Year Ons	ite support with next business day response	
	NOTE: UEFI is the standard default for al	l pre-defined models.	

yxx1 = B21WorldwideNOTE: The -B21 WW SKU is to be ordered in all countries other than Japan or PRC.xx1 = 291Japanxx1 = AA1PRC

This section lists some of the steps required to configure a Factory Integrated Model. To ensure only 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 the number of initial hard drives ordered with the 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)

Server description	HPE DL560 Gen10 CTO Svr
SKU Number	841730-B21
TAA SKU	875797-B21
Chipset	Intel® C621 Chipset
Processor	2U Server Chassis with 2 processor slots available; 4 processor configuration would require optional HPE ProLiant HPE DL5x0 Gen10 CPU Mezzanine Board Kit (872222-B21)
DIMM Slots	24 DIMM slots for RDIMM, LRDIMM DDR4 Memory; 48 DIMM configuration would require optional HPE ProLiant HPE DL5x0 Gen10 CPU Mezzanine Board Kit (872222-B21) and 4 processors
	None. FlexibleLOM slot (various options can be chosen for networking; NIC cards also available via expansion slots)
Storage Controller	HPE Smart Array S100i NOTE: HPE Smart Array S100i SR Gen10 SW RAID is off by default and must be enabled. For enabling, please select HPE FIO Enable Smart Array SW RAID (784308-B21).
PCIe	3 PCIe 3.0 slots (8 PCIe 3.0 slots are available if second processor is chosen and a Secondary and Tertiary Riser Kits has been installed)
Drive Cage - included	8 SFF, no drives
Fans	6 hot plug fans, redundant
Management	HPE iLO Standard with Intelligent Provisioning and (Standard); HPE OneView Standard (requires download) and HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, HPE OneView Advanced (require additional licenses)
microSD Slots	1 microSD card slot (internal)
TPM Connector	1 Trusted Platform Module (TPM) connector
UEFI	BIOS Legacy mode (field configurable) or Unified Extensible Firmware Interface (UEFI) mode (default)
USB	7 USB ports (2 USB 2.0 and 5 USB 3.0)
Video Ports	2 video ports (1 front optional via the Universal Media Kit upgrade option, 1 rear)
Rails	Easy install rails and cable management arm are optional

NOTE: Trade Agreement Act (TAA) and means that these SKUs are manufactured in countries that are part of the global trade act. This provides greater security assurance that these servers come from countries that signed the agreement act. This is particularly important to HPE customers in our federal sector and other verticals that have concerns about the country of origin for our solutions.

NOTE: TAA servers are only orderable in North America and Canada.

NOTE: PCIe slot availability is dependent on the number of processors and riser kits installed. Please refer to the "Expansion slots" section for more details.

NOTE: For the DL560 Gen10, the number of processors can be one, two or four installed. For four processors, the HPE DL5x0 Gen10 CPU Mezzanine Board Kit is required.

NOTE: This aplies to CTO configurations, field upgrades may differ depending on field configuration.

Step 2a: Choose Processor Options

HPE DL540 Gen10 Intel [®] Xeon-Platinum 8180/M (25GHz/28-core/205W) FIO Processor Kit 875335-L21 NOTE: Ships with Performance Heatsink. 872766-L21 NOTE: Ships with Performance Heatsink. 875335-L21 NOTE: Ships with Performance Heatsink. 875336-L21 NOTE: Ships with Performance Heatsink. 875336-L21 NOTE: Ships with Performance Heatsink. 875336-L21 NOTE: Ships with Performance Heatsink. 840379-L21 NOTE: Ships with Performance Heatsink. 875337-L21 NOTE: Ships with Performance Heatsink. 870370-L21 NOTE: Ships with Performance Heatsink. 87038-L21	Processor Option Kits	Required Processor
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	HPE DL560 Gen10 Intel® Xeon-Gold 6142M (2.6GHz/16-core/150W) FIO Processor Kit	875342-L21 Page 21

NOTE: Ships with Performance Heatsink.	
HPE DL560 Gen10 Intel® Xeon-Gold 6142 (2.6GHz/16-core/145W) FIO Processor Kit	872828-L21
NOTE: Ships with Performance Heatsink.	
HPE DL560 Gen10 Intel® Xeon-Gold 6140M (2.3GHz/18-core/135W) FIO Processor Kit	875339-L21
NOTE: Ships with Performance Heatsink.	
HPE DL560 Gen10 Intel® Xeon-Gold 6140 (2.3GHz/18-core/135W) FIO Processor Kit	840389-L21
NOTE: Ships with Performance Heatsink.	
HPE DL560 Gen10 Intel® Xeon-Gold 6138 (2.0GHz/20-core/120W) FIO Processor Kit	872835-L21
HPE DL560 Gen10 Intel® Xeon-Gold 6136 (3.0GHz/12-core/150W) FIO Processor Kit	872831-L21
NOTE: Ships with Performance Heatsink.	
HPE DL560 Gen10 Intel® Xeon-Gold 6134M (3.2GHz/8-core/130W) FIO Processor Kit	875343-L21
NOTE: Ships with Performance Heatsink.	
HPE DL560 Gen10 Intel® Xeon-Gold 6134 (3.3GHz/8-core/130W) FIO Processor Kit	872833-L21
NOTE: Ships with Performance Heatsink.	
HPE DL560 Gen10 Intel® Xeon-Gold 6132 (2.6GHz/14-core/140W) FIO Processor Kit	840391-L21
NOTE: Ships with Performance Heatsink.	
HPE DL560 Gen10 Intel® Xeon-Gold 6130 (2.1GHz/16-core/120W) FIO Processor Kit	840393-L21
HPE DL560 Gen10 Intel® Xeon-Gold 6128 (3.4GHz/6-core/115W) FIO Processor Kit	872839-L21
NOTE: Ships with Performance Heatsink.	
HPE DL560 Gen10 Intel® Xeon-Gold 6126 (2.6GHz/12-core/120W) FIO Processor Kit	870734-L21
HPE DL560 Gen10 Intel® Xeon-Gold 5122 (3.6GHz/4-core/105W) FIO Processor Kit	870736-L21
NOTE: Ships with Performance Heatsink.	
HPE DL560 Gen10 Intel® Xeon-Gold 5120 (2.2GHz/14-core/105W) FIO Processor Kit	870738-L21
HPE DL560 Gen10 Intel® Xeon-Gold 5118 (2.3GHz/12-core/105W) FIO Processor Kit	840399-L21
HPE DL560 Gen10 Intel® Xeon-Gold 5115 (2.4GHz/10-core/85W) FIO Processor Kit	875349-L21
NOTE: If more than one processor is desired select one xxxxxx-L21 and one or three corresponding	xxxxxx-B21 processors.
Mixing different processor models is not supported.	
Step 2b: Choose Memory Options	
Only one of the following from each list unless otherwise noted	
HPE 8GB (1x8GB) Single Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	815097-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	815098-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 32GB (1x32GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	815100-B21
HPE 64GB (1x64GB) Quad Rank x4 DDR4-2666 CAS-19-19-19 Load Reduced Smart Memory Kit	815101-B21
HPE 128GB (1x128GB) Octal Rank x4 DDR4-2666 CAS-22-19-19 3DS Load Reduced Memory Ki	t 815102-B21
NOTE: LRDIMM and RDIMM are distinct memory technologies and cannot be mixed within a serv	er.

Step 2c: Choose Power Supplies

Only one or more of the following from each list unless otherwise noted	
HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit	865438-B21
HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit	865428-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 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	830272-B21
NOTE: Select one or more power supplies. For 800W, 4 power supplies need to be selected. NOTE: 1600W Power supplies only support high line voltage (200VAC to 240VAC).	

NOTE: Prior to making a power supply selection it is highly recommended that the HPE Power Advisor is run to determine the right size power supply for your server configuration. The HPE Power Advisor is located at: <u>http://www.hpe.com/info/hppoweradvisor</u>.
 NOTE: All power supplies in a server should match. Mixing Power Supplies is not supported.
 NOTE: HPE ProLiant servers ship with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). Visit <u>HPE power cords</u> for a full list of optional power cords.

Step 2d: Choose network adapters

Only one of the following from each list unless otherwise noted	
HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	817709-B21
HPE FlexFabric 10Gb 4-port 536FLR-T Adapter	764302-B21
HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
HPE Ethernet 10Gb 2-port 535FLR-T Adapter	817721-B21
HPE Ethernet 1Gb 4-port 331FLR Adapter	629135-B22
HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	727054-B21
HPE Ethernet 10Gb 2-port 562FLR-T Adapter	817745-B21
HPE Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter	817749-B21
HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter	867334-B21
Step 3: Choose Additional Factory Integratable Options	
Only one of the following from each list unless otherwise noted	
Risers	
HPE DL560 Gen10 4-port 8 NVMe Slimline FIO Riser Kit	876242-B21
HPE DL560 Gen10 x8/x8/x8 1-port 2 NVMe Slimline FIO Riser Kit	876245-B21
HPE DL38X Gen10 x16/x16 GPU Slot2/3 FIO Riser Kit	871676-B21
HPE OneView	
HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A
HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU	E5Y43A
BIOS Mode	
HPE Legacy FIO Mode Setting	758959-B22
NOTE: Selecting this option will change the UEFI BIOS setting into Legacy BIOS Setting.	
Controller State	
HP FIO Enable Smart Array S100i Setting	784308-B21
NOTE: If not selecting an HPE Storage Controller, this option may be selected to support RAID and Hot-plug capabilities for SATA hard drives. The S100i does not support SAS	

hard drives.

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

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

HPE DL5x0 Gen10 12Gb SAS Expander Card Kit with Cables873444-EHPE DL560 Gen10 2SFF Premium HDD Front NVMe/SAS/SATA Kit872223-ENOTE: Needs to be ordered with the HPE DL560 Gen10 Uni Media Bay Kit (872267-B21).872225-EHPE DL560 NVMe 8 SSD Express Bay Enablement Kit872225-EHPE DL560 Gen10 Premium 6SFF and 2 NVMe or 8SFF Bay1 Kit872227-EHPE DL560 Gen10 Premium 6SFF and 2 NVMe or 8SFF Bay2 Kit872227-EHPE DL560 Gen10 Premium 6SFF and 2 NVMe or 8SFF Bay2 Kit872229-EHPE DL560 Gen10 Premium 6SFF and 2 NVMe or 8SFF Bay2 Kit872229-E	321 321
NOTE: Needs to be ordered with the HPE DL560 Gen10 Uni Media Bay Kit (872267-B21).HPE DL560 NVMe 8 SSD Express Bay Enablement Kit872225-EHPE DL560 Gen10 Premium 6SFF and 2 NVMe or 8SFF Bay1 Kit872227-EHPE DL560 Gen10 Premium 6SFF and 2 NVMe or 8SFF Bay2 Kit872229-E	321
HPE DL560 NVMe 8 SSD Express Bay Enablement Kit872225-EHPE DL560 Gen10 Premium 6SFF and 2 NVMe or 8SFF Bay1 Kit872227-EHPE DL560 Gen10 Premium 6SFF and 2 NVMe or 8SFF Bay2 Kit872229-E	
HPE DL560 Gen10 Premium 6SFF and 2 NVMe or 8SFF Bay1 Kit872227-EHPE DL560 Gen10 Premium 6SFF and 2 NVMe or 8SFF Bay2 Kit872229-E	
HPE DL560 Gen10 Premium 6SFF and 2 NVMe or 8SFF Bay2 Kit872229-E872229-E	321
	דער
	321
HPE DL560 Gen10 Premium 6SFF and 2 NVMe or 8SFF Bay3 Kit 872231-E	321
HPE DL560 Gen10 4-port NVMe Mezzanine Card874633-E	321
HPE DL560 Gen10 8SFF HDD Bay1 Kit872233-E872233-E	321
HPE DL560 Gen10 8SFF HDD Bay2 Kit 872235-E	321
HPE DL560 Gen10 8SFF HDD Bay3 Kit872237-E872237-E	321
HPE DL560 Gen10 Universal Media Bay Kit872267-E	321
NOTE: An optional Optical Disk Drive can be added, either DVD-ROM (726536-B21) or DVD-RW (726537-B21).	
HPE DL5x0 Gen10 System Insight Display Kit872261-E872261-E	321
HPE DL560 Gen10 4x Power Supply Enablement Kit875675-E	321
NOTE: Must be ordered when selecting 4 power supplies.	
HPE DL5x0 Gen10 CPU Mezzanine Board Kit872222-E872222-E	321
HPE DL5x0 Gen10 CPU Mezzanine UPI Performance Kit875608-E	321
NOTE: The HPE DL5x0 Gen10 CPU Mezz Kit (872222-B21) is needed for four processor configurations.	
NOTE: The HPE DL5x0 Gen10 CPU Mezz Perf Kit (875608-B21) can only be used in a two processor configuration. This	ki†
ships with the mezzanine tray and connects the two processors with 3 UPI (2 UPI links for 51xx processors) links.	
NOTE: The HPE DL560 Gen10 8 SFF Bay 3 Cage/Backplane Kit (872237-B21) is shipped default with the server. The priority order of drive box population is Box 3, followed by Box 2 and then Box 1.	

HPE DL560 Gen10 Intel® Xeon-Platinum 8180M (2.5GHz/28-core/205W) Processor Kit 875335-B21 **NOTE:** Ships with Performance Heatsink. HPE DL560 Gen10 Intel® Xeon-Platinum 8180 (2.5GHz/28-core/205W) Processor Kit 872766-B21 **NOTE:** Ships with Performance Heatsink. HPE DL560 Gen10 Intel® Xeon-Platinum 8176M (2.1GHz/28-core/165W) Processor Kit 875336-B21 **NOTE:** Ships with Performance Heatsink. HPE DL560 Gen10 Intel® Xeon-Platinum 8176 (2.1GHz/28-core/165W) Processor Kit 840379-B21 **NOTE:** Ships with Performance Heatsink. 875337-B21 HPE DL560 Gen10 Intel® Xeon-Platinum 8170M (2.1GHz/26-core/165W) Processor Kit NOTE: Ships with Performance Heatsink. HPE DL560 Gen10 Intel® Xeon-Platinum 8170 (2.1GHz/26-core/165W) Processor Kit 870730-B21 NOTE: Ships with Performance Heatsink. HPE DL560 Gen10 Intel® Xeon-Platinum 8168 (2.7GHz/24-core/205W) Processor Kit 872768-B21 **NOTE:** Ships with Performance Heatsink. HPE DL560 Gen10 Intel® Xeon-Platinum 8165 (2.8GHz/24-core/205W) Processor Kit P00790-B21 **NOTE:** Ships with Performance Heatsink. Page 24

HPE DL560 Gen10 Intel® Xeon-Platinum 8164 (2.0GHz/26-core/150W) Processor Kit NOTE: Ships with Performance Heatsink.	840383-B21
HPE DL560 Gen10 Intel® Xeon® -Platinum 8160M (2.1GHz/24-core/145W) Processor Kit	875338-B21
NOTE: Ships with Performance Heatsink.	075550-621
HPE DL560 Gen10 Intel® Xeon-Platinum 8160 (2.1GHz/24-core/145W) Processor Kit	840381-B21
NOTE: Ships with Performance Heatsink.	040301-021
HPE DL560 Gen10 Intel® Xeon-Platinum 8158 (3.0GHz/12-core/105W) Processor Kit	840397-B21
NOTE: Ships with Performance Heatsink.	040377 021
HPE DL560 Gen10 Intel® Xeon-Platinum 8156 (3.6GHz/4-core/105W) Processor Kit	840395-B21
HPE DL560 Gen10 Intel® Xeon-Platinum 8153 (2.0GHz/16-core/125W) Processor Kit	872841-B21
HPE DL560 Gen10 Intel® Xeon-Gold 6154 (3.0GHz/18-core/200W) Processor Kit	872770-B21
NOTE: Ships with Performance Heatsink.	0/2//0 022
HPE DL560 Gen10 Intel® Xeon-Gold 6152 (2.1GHz/22-core/135W) Processor Kit	840387-B21
NOTE: Ships with Performance Heatsink.	010007 022
HPE DL560 Gen10 Intel® Xeon-Gold 6150 (2.7GHz/18-core/165W) Processor Kit	870732-B21
NOTE: Ships with Performance Heatsink.	0,0,02,022
HPE DL560 Gen10 Intel® Xeon-Gold 6148 (2.4GHz/20-core/145W) Processor Kit	840385-B21
NOTE: Ships with Performance Heatsink.	0.0000 022
HPE DL560 Gen10 Intel® Xeon-Gold 6146 (3.2GHz/12-core/165W) Processor Kit	872824-B21
NOTE: Ships with Performance Heatsink.	0,202,022
HPE DL560 Gen10 Intel® Xeon-Gold 6144 (3.5GHz/8-core/165W) Processor Kit	872826-B21
NOTE: Ships with Performance Heatsink.	
HPE DL560 Gen10 Intel® Xeon-Gold 6143 (2.8GHz/16-core/205W) Processor Kit	P00788-B21
NOTE: Ships with Performance Heatsink.	
HPE DL560 Gen10 Intel® Xeon-Gold 6142M (2.6GHz/16-core/150W) Processor Kit	875342-B21
NOTE: Ships with Performance Heatsink.	
HPE DL560 Gen10 Intel® Xeon-Gold 6142 (2.6GHz/16-core/145W) Processor Kit	872828-B21
NOTE: Ships with Performance Heatsink.	
HPE DL560 Gen10 Intel® Xeon-Gold 6140M (2.3GHz/18-core/140W) Processor Kit	875339-B21
NOTE: Ships with Performance Heatsink.	
HPE DL560 Gen10 Intel® Xeon-Gold 6140 (2.3GHz/18-core/140W) Processor Kit	840389-B21
NOTE: Ships with Performance Heatsink.	
HPE DL560 Gen10 Intel® Xeon-Gold 6138 (2.0GHz/20-core/125W) Processor Kit	872835-B21
HPE DL560 Gen10 Intel® Xeon-Gold 6136 (3.0GHz/12-core/150W) Processor Kit	872831-B21
NOTE: Ships with Performance Heatsink.	
HPE DL560 Gen10 Intel® Xeon-Gold 6134M (3.2GHz/8-core/130W) Processor Kit	875343-B21
NOTE: Ships with Performance Heatsink.	
HPE DL560 Gen10 Intel® Xeon-Gold 6134 (3.3GHz/8-core/130W) Processor Kit	872833-B21
NOTE: Ships with Performance Heatsink.	
HPE DL560 Gen10 Intel® Xeon-Gold 6132 (2.6GHz/14-core/140W) Processor Kit	840391-B21
NOTE: Ships with Performance Heatsink.	
HPE DL560 Gen10 Intel® Xeon-Gold 6130 (2.1GHz/16-core/125W) Processor Kit	840393-B21
HPE DL560 Gen10 Intel® Xeon-Gold 6128 (3.4GHz/6-core/115W) Processor Kit	872839-B21
HPE DL560 Gen10 Intel® Xeon-Gold 6126 (2.6GHz/12-core/125W) Processor Kit	870734-B21
HPE DL560 Gen10 Intel® Xeon-Gold 5122 (3.6GHz/4-core/105W) Processor Kit	870736-B21

HPE DL560 Gen10 Intel® Xeon-Gold 5120 (2.2GHz/14-core/105W) Processor Kit	870738-B21
HPE DL560 Gen10 Intel® Xeon-Gold 5118 (2.3GHz/12-core/105W) Processor Kit	840399-B21
HPE DL560 Gen10 Intel® Xeon-Gold 5115 (2.4GHz/10-core/85W) Processor Kit	875349-B21
NOTE: If more than one processor is desired select one xxxxxx-L21 and one or three corresponding xxxxxx-B Mixing different processor models is not supported.	21 processors.

Memory Selection

To streamline the configuration process for HPE ProLiant Gen10 servers and to provide the best product availability, HPE recommends memory from the list located here: <u>http://www.hpe.com/products/recommend</u>. Best product availability is limited to US, Canada, and Latin America at this time.

HPE Memory

NOTE: Hewlett Packard Enterprise memory from previous generation servers is not qualified or warranted with this HPE ProLiant Server. HPE SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen10. For additional information,	
please see the HPE SmartMemory QuickSpecs .	
NOTE: LRDIMM and RDIMM are all distinct memory technologies and cannot be mixed within a server.	
HPE 8GB (1x8GB) Single Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	815097-B21
HPE 8GB (1x8GB) Dual Rank x8 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	876181-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 32GB (1x32GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	815100-B21
HPE 64GB (1x64GB) Quad Rank x4 DDR4-2666 CAS-19-19-19 Load Reduced Smart Memory Kit	815101-B21
NOTE: The maximum memory speed is a function of the memory type, memory configuration, and processor model.	
HPE Persistent Memory	
HPE 16GB NVDIMM Single Rank x4 DDR4-2666 Module Kit	845264-B21
NOTE: A maximum of 6 NVDIMMs are supported per processor and the DL560 can support a maximum of 24 NVDIMMs.	
NOTE: Please refer to <u>http://www.hpe.com/info/persistentmemory</u> for NVDIMM population rules and guidelines.	
HPE Optical Drives	
HPE 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive	726536-B21
NOTE: The optional Universal Media Bay Kits are required for this option. (HPE ProLiant DL560 Gen10 Universal Media Bay kit (872267-B21).	
HPE 9.5mm SATA DVD-RW JackBlack G9 Optical Drive	726537-B21
NOTE: The optional Universal Media Bay Kits are required for this option. (HPE ProLiant DL560 Gen10 Universal Media Bay kit - 872267-B21).	
HPE Mobile USB Non Leaded System DVD RW Drive	701498-B21
NOTE: External	

HPE Drives

NOTE: The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

NOTE: Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

Enterprise - 12G SAS - SFF Drives

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

HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870757-B21
HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	870763-B21
HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872477-B21
HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870759-B21
HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	870765-B21
HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872479-B21
HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	872481-B21
HPE 2.4TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	881457-B21
Midline - 12G SAS - SFF Drives	
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
HPE 2TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD	765466-B21
Midline - 6G SATA - SFF Drives	
HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD	655710-B21
HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	765453-B21
HPE 2TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	765455-B21
SSD Selection	
To streamline the configuration process for HPE ProLiant Gen10 servers and to provide the best prod HPE recommends SSDs from the list located here: http://www.hpe.com/products/recommend .	luct availability,
Write Intensive - PCIe/NVMe - SFF - Solid State Drives	
HPE 400GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty SSD	736936-B21
HPE 800GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty SSD	736939-B21
HPE 1.6TB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty SSD	764892-B21
HPE 2TB NVMe x4 Lanes Write Intensive SFF(2.5in) SCN 3yr Wty SSD	764894-B21
Write Intensive - 6G SATA - SFF - Solid State Drives	
HPE 400GB SATA 6G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872355-B21
HPE 800GB SATA 6G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872359-B21
HPE 1.6TB SATA 6G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872363-B21
Write Intensive - 12G SAS - SFF - Solid State Drives	
HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873351-B21
HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873355-B21
HPE 1.6TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873357-B21
Read Intensive - 6G SATA - SFF - Solid State Drives	
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877740-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	868814-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877746-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875509-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	868818-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877752-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875511-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	868822-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877758-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875513-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	868826-B21
HPE 3.8TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	868830-B21
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HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877764-B21
Read Intensive - 6G SATA - M.2 - Solid State Drives	
HPE 150GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD	875317-B21
HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD	875319-B21
HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD	875498-B21
HPE 960GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD	875500-B21
Read Intensive - 12G SAS - SFF - Solid State Drives	
HPE 480GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875311-B21
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875313-B21
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872390-B21
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875326-B21
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872392-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875330-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872394-B21
HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	870144-B21
HPE 15.3TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	870148-B21
Read Intensive - 6G SATA - M.2 - UFF - Solid State Drives	
HPE Dual 150GB SATA Read Intensive M.2 - UFF to SFF SCM 3yr Wty Digitally Signed Firmware SSD	880875-B21
HPE 340GB SATA 6G Read Intensive UFF 3yr Wty Dual M.2 Kit	815605-B21
HPE 340GB SATA 6G Read Intensive UFF 3yr Wty M.2 Kit	815606-B21
HPE Dual 480GB SATA Read Intensive M.2 - UFF to SFF SCM 3yr Wty Digitally Signed Firmware SSD	880877-B21
NOTE: M.2 drives go in the Primary Riser and use S100i SATA controller only.	
NOTE: M.2 supports Software RAID only.	
Read Intensive - NVMe - SFF - Solid State Drives	
HPE 400GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty SSD	764904-B21
HPE 480GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	875587-B21
HPE 960GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	875589-B21
HPE 1.2TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty SSD	764906-B21
HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	875591-B21
NOTE: A NVMe (872225-B21 or 872227-B21 or 872229-B21, 872231-B21) or Premium (872223-B21) drive cage are
required to support these drives in conjunction with a NVMe riser kit or 4-port NVMe Mezzanine card .	
NOTE: Not supported by HPE Smart Array controllers.	
Mixed Use - 12G SAS - SFF - Solid State Drives	077750 004
HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873359-B21
HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872374-B21
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873363-B21
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872376-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873365-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872382-B21
HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	873367-B21
HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872386-B21
Mixed Use - 6G SATA - SFF - Solid State Drives	
HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	880295-B21
HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875483-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877776-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	
	875470-B21

HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872344-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877782-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875474-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872348-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877788-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875478-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872352-B21
Mixed Use - 6G SATA - M.2 - Solid State Drives	
HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875488-B21
HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875490-B21
HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875492-B21
Mixed Use - NVMe - SFF - Solid State Drives	
HPE 400GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	875593-B21
HPE 400GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty SSD	765034-B21
HPE 800GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	875595-B21
HPE 800GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty SSD	765036-B21
HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	875597-B21
HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty SSD	765038-B21
HPE 2TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty SSD	765044-B21
NOTE: A NVMe (872225-B21 or 872227-B21 or 872229-B21, 872231-B21) or Premium (872223) required to support these drives in conjunction with a NVMe riser kit. NOTE: Not supported by HPE Smart Array controllers.	-B21) drive cage are
Hard Drive Blank Kits	
HPE Small Form Factor Hard Drive Blank Kit	666987-B21
Hard Drive Kits	
HPE Universal SATA HHHL 3yr Wty M.2 Kit	878783-B21
NOTE: This is a M.2 enablement standup card.	
HPE DL560 Gen10 8SFF HDD Bay1 Kit	872233-B21
HPE DL560 Gen10 8SFF HDD Bay2 Kit	872235-B21
HPE DL560 Gen10 8SFF HDD Bay3 Kit	872237-B21
NVMe Kit	
HPE DL560 NVMe 8 SSD Express Bay Enablement Kit	872225-B21
HPE DL560 Gen10 Premium 6SFF and 2 NVMe or 8SFF Bay1 Kit	872227-B21
HPE DL560 Gen10 Premium 6SFF and 2 NVMe or 8SFF Bay2 Kit	872229-B21
HPE DL560 Gen10 Premium 6SFF and 2 NVMe or 8SFF Bay3 Kit	872231-B21
Media Bay Kits	
Media Bay Kits HPE DL560 Gen10 Universal Media Bay Kit	872267-B21
Media Bay Kits HPE DL560 Gen10 Universal Media Bay Kit HPE DL560 Gen10 2SFF Premium HDD Front NVMe/SAS/SATA Kit	872267-B21 872223-B21

HPE Networking

25 Gigabit Ethernet adapters

HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter	867328-B21
HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter	867334-B21
HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter	817749-B21
HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter	817753-B21

HPE Ethernet 4x25Gb 1-port 620QSFP28 Adapter	817762-B21
HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	817709-B21
HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	817718-B21
10 Gigabit Ethernet adapters	
HPE Ethernet 10Gb 2-port 521T Adapter	867707-B21
HPE Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
HPE Ethernet 10Gb 2-port 530T Adapter	656596-B21
HPE Ethernet 10Gb 2-port 535T Adapter	813661-B21
HPE Ethernet 10Gb 2-port 562FLR-T Adapter	817745-B21
HPE Ethernet 10Gb 2-port 562SFP+ Adapter	727055-B21
HPE Ethernet 10Gb 2-port 562T Adapter	817738-B21
NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter.	
NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic	
environments must be purchased separately. Please see the related NIC QuickSpecs for Technical Specifications and additional information:	
https://www.hpe.com/us/en/product-catalog/servers/server-adapters.hits-12.html	
1 Gigabit Ethernet adapters	
HPE Ethernet 1Gb 4-port 331T Adapter	647594-B21
HPE Ethernet 1Gb 2-port 332T Adapter	615732-B21
HPE Ethernet 1Gb 2-port 361T Adapter	652497-B21
HPE Ethernet 1Gb 4-port 366T Adapter	811546-B21
FlexibleLOM Adapters	011040 021
HPE Ethernet 1Gb 4-port 331FLR Adapter	629135-B22
HPE Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
	700759-B21
HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21 700751-B21
HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	
HPE Ethernet 10Gb 2-port 535FLR-T Adapter	817721-B21
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	727054-B21
HPE FlexFabric 10Gb 4-port 536FLR-T Adapter	764302-B21
NOTE: Please see the NIC QuickSpecs for Technical Specifications and additional information: https://www.hpe.com/us/en/product-catalog/servers/server-adapters.hits-12.html	
HPE InfiniBand	
HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	764284-B21
HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	764285-B21
HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	825110-B21
HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	825111-B21
HPE InfiniBand EDR 100Gb 1-port 841QSFP28 Adapter	872725-B21
HPE 100Gb 1-port OP101 QSFP28 x8 PCIe Gen3 with Intel® Omni-Path Architecture Adapter	829334-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCle Gen3 with Intel® Omni-Path Architecture Adapter	829335-B21
NOTE: For additional InfiniBand information:	02,000 021
https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04154440	
HPE I/O Expansion Options	
HPE DL560 Gen10 x8/x8/x8 1-port 2 NVMe Slimline Riser Kit	873420-B21
HPE DL560 Gen10 4-port 8 NVMe Slimline Riser Kit	873418-B21
HPE DL560 Gen10 x8/x8 Tertiary Riser Kit	872253-B21
	Page 30

HPE DL Gen10 x16/x16 GPU Riser Kit HPE DL Gen10 x8/x16/x8 Riser Kit HPE DL560 Gen10 x8 1-port 2 NVMe Slimline Riser Kit HPE DL560 Gen10 2-port 4 NVMe Slimline Tertiary Riser Kit NOTE: Secondary and Tertiary risers are optional kits which can be utilized when system is populated with at least two (2) processors. Refer to "Expansion Slots" section for additional details on risers.	826704-B21 870548-B21 872255-B21 872257-B21
HPE Power Supplies	
HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit NOTE: Flex Slot Platinum Plus power supplies support power efficiency of up to 94% and include a C-14 power inlet connector that can support HPE Power Discovery Services (blue connector). NOTE: 1600W Power supplies only support high line voltage (200VAC to 240VAC).	830272-B21
HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit NOTE: Flex Slot -48VDC power supplies support power efficiency of up to 94%.	865434-B21
HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.	865414-B21
HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit NOTE: Flex Slot universal power supplies support power efficiency of up to 94% and support both 277VAC/380VDC power inputs.	865428-B21
 HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit NOTE: Flex Slot Titanium power supplies support power efficiency of up to 96% and include a standard C-14 power inlet connector. NOTE: Prior to making a power supply selection it is highly recommended that the HPE Power Advisor is run to determine the right size power supply for your server configuration. The HPE Power Advisor is located at: <u>http://www.hpe.com/info/hppoweradvisor</u>. 	865438-B21
 NOTE: All power supplies in a server should match. Mixing Power Supplies is not supported. NOTE: Option kits contain the specified power supply and a PDU IEC cable. NOTE: 1600W power supplies only support high line voltage. NOTE: HPE ProLiant servers ship with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). Visit <u>HPE power cords</u> for a full list of optional HPE power cords. 	

GPGPU information

Part number	Card	Qty support	Processor support	PCIe speed	8/16/24 SFF	Max. 8 NVMe	Greater than 8 NVMe
Q0V77A	NVIDIA Quadro P2000 GPU Module	2	All	Gen3	35C	35C	30C

NOTE: Check the power usage via the HPE Power Advisor Tool located at <u>http://www.hpe.com/info/hppoweradvisor</u>. **NOTE:** A maximum of 2 GPU cards can be supported, 1 in primary riser expansion slot 2 and another in secondary riser expansion slot 5. Refer Expansion Slots sections for additional details on risers.

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.

iLO Advanced	
HPE iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU	E6U59ABE
HPE iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU	E6U64ABE
HPE iLO Advanced including 3yr 24x7 Tech Support and Updates 1-server LTU	BD505A
HPE iLO Advanced including 3yr 24x7 Tech Support and Updates Flexible Quantity LTU	BD506A
HPE iLO Advanced including 3yr 24x7 Tech Support and Updates Tracking LTU	BD507A
HPE iLO Advanced including 1yr 24x7 Technical Support and Updates 1-server LTU	512485-B21
HPE iLO Advanced including 1yr 24x7 Technical Support and Updates Flexible Quantity LTU	512486-B21
HPE iLO Advanced including 1yr 24x7 Technical Support and Updates Tracking LTU	512487-B21
HPE Converged Infrastructure Management Software	
HPE OneView Physical Media Kit LTU	E5Y37A
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 for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU	E5Y43A
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 w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A
NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be	
downloaded at: <u>https://www.hpe.com/us/en/integrated-systems/software.html</u> . NOTE: Electronic and flexible-quantity licenses can be used to purchase multiple licenses with a single	
activation key.	
NOTE: Please see the <u>HPE OneView QuickSpecs</u> for technical specifications and additional information.	
HPE PCIe Workload Accelerator Options	
HPE Write Intensive PCIe Workload Accelerator	
HPE 1.6TB NVMe Write Intensive HH/HL PCIe Workload Accelerator	803197-B21
HPE 800GB NVMe Write Intensive HH/HL PCIe Workload Accelerator	803195-B21
HPE Mixed Use PCIe Workload Accelerator	
HPE 2.0TB NVMe Mixed Use HH/HL PCIe Workload Accelerator	803204-B21
HPE 1.6TB NVMe Mixed Use HH/HL PCIe Workload Accelerator	803202-B21
HPE 800GB NVMe Mixed Use HH/HL PCIe Workload Accelerator	803200-B21
HPE 6.4TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card	877829-B21
HPE 3.2TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card	877827-B21
HPE 1.6TB PCIe x8 Lanes Mixed Use HHHL 3yr Wty Digitally Signed Firmware Card	877825-B21
NOTE: Please see the <u>HPE PCIe Workload Accelerators for ProLiant Servers QuickSpecs</u> for Technical Specifications and additional information.	

Additional Options

HPE Security

HPE Trusted Platform Module 2.0 Gen10 Option	864279-B21
HPE iLO Advanced Premium Security Upgrade Electronic License with 3yr Support on Licensed Features	Q7E12AAE
HPE iLO Advanced Premium Security Edition License with 1yr Support on Licensed Features	Q7E31A
HPE iLO Advanced Premium Security Flex Qty License with 1yr Support on Licensed Features	Q7E32A
HPE iLO Advanced Premium Security Edition Electronic License with 1yr Support on Licensed Features	Q7E32AAE
HPE iLO Advanced Premium Security Edition License with 3yr Support on Licensed Features	Q7E33A
HPE iLO Advanced Premium Security Flex Qty License with 3yr Support on Licensed Features	Q7E34A
HPE iLO Advanced Premium Security Edition Electronic License with 3yr Support on Licensed Features	Q7E34AAE
HPE iLO Advanced Premium Security AKA Tracking License with 1yr Support on Licensed Features	Q7E35A
HPE iLO Advanced Premium Security AKA Tracking License with 1yr Support on Licensed Features	Q7E36A
NOTE: HPE Trusted Platform Module 2.0 Option (864279-B21) works with Gen10 servers with UEFI Mode Mode. It is not compatible with HPE ProLiant Gen9 servers or earlier generation variants.HPE server system TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.	U ,

HPE Smart Array Controllers

The Gen10 controller naming framework has been updated to simplify identification as depicted below. For a more detailed breakout of the available Gen10 Smart Array controllers visit the **HPE Smart Array Gen10 Controllers Data Sheet**.

Class P = Performance RAID Controller	P408i-a	Controller Type (form factor) a = Type-a modular controller
E = Essential RAID Controller		b = Type-b modular controller
S = Software RAID	Series # SAS Lanes Port Type	c = Type-c modular controller
	200 = \$ i = Internal Ports	m = Mezzanine controller
	400 = \$\$ e = External Ports ie = Internal & External	p = PCle plug-in controller
	800 = \$\$\$	

Performance RAID Controllers

NOTE: All performance RAID controllers are supported by the HPE Smart Storage Battery (P01366-B21), which supports multiple devices and is sold separately.	
HPE Smart Array P816i-a SR Gen10 (16 Int Lanes/4GB Cache/SmartCache) 12G SAS Modular LH Controller	869083-B21
NOTE: Does not occupy a PCIe expansion slot.	
HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular LH Controller	869081-B21
NOTE: Does not occupy a PCIe expansion slot.	
HPE Smart Array P408i-p SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS PCIe Plug-in Controller	830824-B21
HPE Smart Array P408e-p SR Gen10 (8 External Lanes/4GB Cache) 12G SAS PCIe Plug-in Controller	804405-B21
Essential RAID Controllers	
HPE Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular LH Controller	869079-B21
NOTE: Does not occupy a PCIe expansion slot.	
HPE Smart Array E208i-p SR Gen10 (8 Internal Lanes/No Cache) 12G SAS PCIe Plug-in Controller	804394-B21
HPE Smart Array E208e-p SR Gen10 (8 External Lanes/No Cache) 12G SAS PCIe Plug-in Controller	804398-B21
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
	5 77

HPE Smart Array SR SmartCache (Single Key/Multiple Servers) E-LTU 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 LH Controller is installed in the server.	D7S27AAE
Optional Upgrades	
HPE 96W Smart Storage Battery (up to 20 Devices) with 145mm Cable Kit	P01366-B21
NOTE: Provides backup power for multiple HPE Smart Array controllers or other devices. Is required with performance RAID controllers.	

HPE Tape Backup

NOTE: For the complete range of tape drives, autoloaders, libraries and media see: <u>https://www.hpe.com/us/en/storage/storeever-tape-storage.html</u>. For hardware and software compatibility of Hewlett Packard Enterprise tape backup products <u>http://www.hpe.com/storage/BURAcompatibility</u>.

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 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 Racks

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

NOTE: Please see the <u>HPE Enterprise Series Racks QuickSpecs</u> for information on additional racks options and rack specifications.

NOTE: Please see the **HPE Standard Series Racks QuickSpecs** for information on additional racks options and rack specifications.

HPE Power Distribution Units (PDUs)

NOTE: Please see the <u>HPE Basic Power Distribution Units (PDU) QuickSpecs</u> for information on these products and their specifications.

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

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

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

HPE Uninterruptible Power Systems (UPS)

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

NOTE: Please see the <u>HPE DirectFlow Three Phase Uninterruptible Power System QuickSpecs</u> for information on these products and their specifications.

NOTE: Please see the <u>HPE Line Interactive Single Phase UPS QuickSpecs</u> for information on these products and their specifications.

HPE Rack Options

NOTE: Please see the <u>HPE KVM Switches web page</u> for information on these products and their specifications.

Rail Kits

HP 2U Large Form Factor Easy Install Rail Kit	733662-B21
NOTE: Does not include CMA (733664-B21).	
HP 2U Cable Management Arm for Easy Install Rail Kit	733664-B21
HPE 2U Large Form Factor Ball Bearing Rail Kit	720864-B21
NOTE: Does not include CMA (720865-B21).	
HPE 2U Cable Management Arm for Ball Bearing Rail Kit	720865-B21
NOTE: Rail kits are optional for DL560 Gen10 and are no longer included standard with the server. Custor option to purchase their server without a rail kit.	mers have the
NOTE: Ball bearing and Easy Install 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 So	
Please refer to your installation instructions for proper tools and number of people to use for any installat	ion.

HPE USB and SD Options

HPE Enterprise Mainstream Flash Media Kits for Memory Cards

HPE 32GB microSD Mainstream Flash Media Kit	700139-B21
HPE 8GB microSD Enterprise Mainstream Flash Media Kit	726116-B21
HPE Dual 8GB microSD Enterprise Midline USB Kit	741279-B21
HPE 8GB USB Enterprise Mainstream Flash Media Drive Key Kit	737953-B21
NOTE: Please see the HPE Flash Media Kits QuickSpecs for additional information.	

HPE Support Services

Installation & Start-up Services

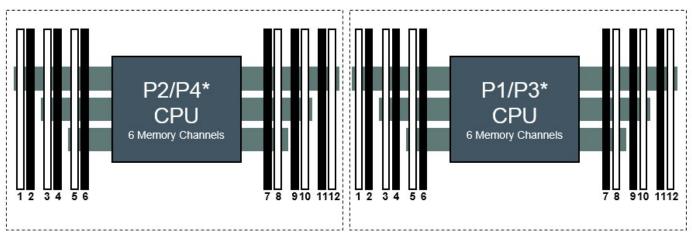
HPE Install ProLiant DL560 Service HPE Startup ProLiant DL560 Service Proactive Care	U6H58E U6H60E
HPE 3Y PC 24x7 DL560 Gen10 SVC	H8PW6E
HPE 3Y PC 24x7 wDMR DL560 Gen10 SVC	H8PW7E
HPE 3Y PC 24x7 wCDMR DL560 Gen10 SVC	H8PW8E
HPE 3Y PC CTR DL560 Gen10 SVC	H8PX5E
HPE 3Y PC CTR wDMR DL560 Gen10 SVC	H8PX6E
HPE 3Y PC CTR wCDMR DL560 Gen10 SVC	H8PX7E

Memory

Memory Population guidelines

HPE Gen10 DL360 / DL380 / DL560* Servers

2 Slots per Channel



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

Front of Server

HPE	HPE ProLiant Gen10 12 slot per CPU											
	DIMM Population Order											
1 DIMM								8				
2 DIMMs								8		10		
3 DIMMs								8		10		12
4 DIMMs			3		5			8		10		
5 DIMMs*			3		5			8		10		12
6 DIMMs	1		3		5			8		10		12
7 DIMMs*	1		3		5		7	8		10		12
8 DIM M s			3	4	5	6	7	8	9	10		
9 DIM M s *	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
* Unbalanced, not recommended												

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.

QuickSpecs

Memory

- 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**.

HPE 16GB NVDIMM for Gen10 Servers - Population Rules and Guidelines:

- . Maximum of (12) 16GB NVDIMMs for 2 socket servers and (24) 16GB NVDIMMs for 4 socket servers.
- . If NVDIMM-N interleaving is disabled, then any number of NVDIMM-Ns may be used, and the NVDIMM-Ns should be populated in this order:
 - Choose a CPU with open slots (based on NUMA proximity), if any.
 - Pick a channel with two open slots, if any. This keeps the NVDIMM-N from sharing bandwidth with regular memory. Populate the white slot.
 - Pick a channel with an open slot that already has an NVDIMM-N rather than a regular DIMM, if any. This slot must be a black slot. Keep NVDIMM-N traffic away from regular DIMM traffic.
- . If NVDIMM-N interleaving is enabled, then the same interleaving balance restrictions that applied to regular DIMMs also apply to the NVDIMM-Ns using the remaining open slots. When assigning the NVDIMM-Ns to those open channels per the regular DIMM placement rules:
 - o It's important to keep the same number of DIMMs on the same memory controller.
 - o Choose the number of NVDIMM-Ns per CPU based on desired block device size and NUMA locality.
 - Pick a memory controller with a channel with two open slots, if any.
 - Pick a channel with two open slots, if any. This keeps the NVDIMM-N from sharing bandwidth with regular memory. Populate the white slot.

. Please visit the HPE Server Memory Options Population Rules for detailed configuration rules and best practices.

	Memory Speed Tab	le - 500 Series Pla	atforms - DL560 Gei	n 10				
DIMM Type	Register DIMM (RDIMM)							
HPE SKU P/N	815097-B21	876181-B21	815098-B21	835955-B21	815100-B21			
SKU Description	HPE 8GB 1Rx8 PC4- 2666V-R Kit	HPE 8GB 2Rx8 PC4-2666V-R Kit	HPE 16GB 1Rx4 PC4-2666V-R Kit	HPE 16GB 2Rx8 PC4-2666V-R Kit	HPE 32GB 2Rx4 PC4-2666V-R Kit			
DIMM Rank ->	Single Rank (1R)	Dual Rank (2R)	Single Rank (1R)	Dual Rank (2R)	Dual Rank (2R)			
DIMM Capacity ->	8 GB	8 GB	16 GB	16 GB	32 GB			
Voltage	1.2V	1.2V	1.2V	1.2V	1.2V			
DRAM depth [bit]	1G	512 MB	2G	1G	2G			
DRAM Width [bit]	x8	x8	x4	x8	x4			
DRAM Density	8 Gb	4 Gb	8 Gb	8 Gb	8 Gb			
CAS Latency	19-19-19	19-19-19	19-19-19	19-19-19	19-19-19			
DIMM Native Speed (MT/s)	2666 MT/s	2666 MT/s	2666 MT/s	2666 MT/s	2666 MT/s			
•	Intel® Xeon® Platinum	and Gold 81xx/61	xx Processors Officia	lly Supported Memor	y Speed (MT/s)			
1 DIMM Per Channel	2666 MT/s	2666 MT/s	2666 MT/s	2666 MT/s	2666 MT/s			
2 DIMM Per Channel	2666 MT/s	2666 MT/s	2666 MT/s	2666 MT/s	2666 MT/s			
Intel [®] Xeon [®] Gold 51xx Processors Officially Supported Memory Speed (MT/s)								
1 DIMM Per Channel	2400 MT/s	2400 MT/s	2400 MT/s	2400 MT/s	2400 MT/s			
2 DIMM Per Channel	2400 MT/s	2400 MT/s	2400 MT/s	2400 MT/s	2400 MT/s			

Memory

DIMM Туре	Load Reduced	Load Reduced (LRDIMM)				
HPE SKU P/N	815101-B21	815102-B21				
SKU Description	HPE 64 GB 4Rx4 PC4-2666V-L Kit	HPE 128GB 8Rx4 PC4-2666V-L Kit				
DIMM Rank ->	Quad Rank (4R)	Octal Rank (8R)				
DIMM Capacity ->	64 GB	128 GB				
Voltage	1.2V	1.2 V				
DRAM depth [bit]	2G	2G				
DRAM Width [bit]	×4	x4				
DRAM Density	8 Gb	8 Gb				
CAS Latency	19-19-19	22-19-19				
DIMM Native Speed (MT/s)	2666 MT/s	2666 MT/s				
Intel [®] Xeon [®] Platinum and Gold 81xx	/61xx Processors Officially Supported Memory	Speed (MT/s)				
1 DIMM Per Channel	2666 MT/s	2666 MT/s				
2 DIMM Per Channel	2666 MT/s	2666 MT/s				
Intel® Xeon® Gold 51xx Processors O	fficially Supported Memory Speed (MT/s)					
1 DIMM Per Channel	2400 MT/s 2400 MT/s					
2 DIMM Per Channel	2400 MT/s	2400 MT/s				

For details on the HPE Server Memory speed, visit: https://www.hpe.com/docs/memory-speed-table

Standard and Maximum Memory Capacity (Pre-configured Models)

Pre Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
5120	32 GB (2 x 16 GB)	384 GB (24 x 16 GB)	6144GB (48 x 128 GB)
6130	64 GB (4 x 16 GB)	384 GB (24 x 16 GB)	6144GB (48 x 128 GB)
6148	128 GB (8 x 16 GB)	384 GB (48 x 16 GB)	6144GB (48 x 128 GB)
8170	256 GB (16 x 16 GB)	384 GB (48 x 16 GB)	6144GB (48 x 128 GB)
8164	256 GB (16 x 16 GB)	384 GB (48 x 16 GB)	6144GB (48 x 128 GB)

DDR4 memory options part number decoder

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

- 4 GB = 4,096 MB
- 8 GB = 8,192 MB
- 16 GB = 16,384 MB
- 32 GB = 32,768 MB
- 64 GB = 65,536 MB
- 128 GB = 131,072 MB

For more information on memory, please see the Memory Quickspecs: HPE DDR4 SmartMemory

Storage

8 SFF (+2 SFF) hot-plug drive model with Universal Media Bay

24 SFF (incl 12 NVMe SSDs) hot-plug drive model

Technical Specifications

System Unit		
Dimensions (H x W x D) (with bezel)	8.75cm x 44.54cm x 75. 3.44 x 17.54 x 29.71 in	47cm
Weight (approximate)	34.12 kg 75.23 lb	Maximum: (all hard drives, power supplies, DIMMs and processors installed)
	18.45 kg 40.67 lb	Minimum: (one processor, one standard heatsink, one air baffle, one hard drive, one power supply, one DIMM, one rail kit with CMA and one primary riser installed)
Input Requirements (per power supply)	Rated Input Voltage	100 - 127 VAC, 200 – 240 VAC, 240VDC for China Only (800W Platinum PS only) 200 – 240 VAC, 240VDC for China Only (800W Titanium PS only) 200 V to 277 VAC, 380 VDC (800W Universal PS only) -40 VDC to -72 VDC, -48 VDC nominal input (800W -48VDC PS only) 200 - 240 VAC, 240 VDC for China only (1600W PS Only)
	Rated Input Current	 9.4 A (100 VAC), 4.5 A (200 VAC), 3.8 A at 240VDC for China Only (800W Platinum PS only) 4.35 A at 200 VAC 3.62 A at 240 VDC for China Only (800W Titanium PS only) 4.5 A at 200 V AC, 3.2 A at 277 V AC, 2.3 A at 380 VDC - (800W Universal PS only) 26 A at -40 VDC input, 19 A at -48 VDC input, nominal input, 12.4 A at -72 VDC input - (800W -48VDC PS only) 8.7 A at 200 VAC, 7.2 A at 240 VAC - (1600W PS Only)
	Rated Input Frequency	50 to 60 Hz (Not applicable for VDC ranges)
	Maximum Rated Input Power	 940 W (100 VAC), 900 W (200VAC), 912 W at 240 VDC for China Only - (800W Platinum PS only) 870 W at 200 VAC, 870 W at 240 VAC, 870 W at 240 VDC for China only - (800W Titanium PS only) 900 W at 200 VAC, 887 W at 277 VAC, 874 W at 380 VDC - (800W Universal PS only) 936 W at -40 VDC input 912 W at -48 VDC input, nominal input 900 W at -72 VDC input - (800W -48VDC PS only) 1734 W at 200 VAC 1720 W at 240 VAC - (1600W PS Only)
BTU Rating	Maximum	 3207 BTU/hr at 100 VAC, 3071 BTU/hr at 200 VAC, 3112 BTU/hr at 240 for China only - (800W Platinum PS only) 2969 BTU/hr at 200 VAC, 2969 BTU/hr at 240 VAC, 2969 BTU/hr at 240 VDC for China only - (800W Titanium PS only) 3071 BTU/hr at 200 VAC, 3026 BTU/hr at 277 VAC, 2982 BTU/hr at 380 VDC - (800W Universal PS only) 3194 BTU/hr at -40 VDC input, 3112 BTU/hr at -48 VDC input (nominal input), 3071 BTU/hr at -72 VDC input - (800W -48VDC PS only) 5918 BTU/hr at 200 VAC, 5884 BTU/hr at 240 VAC - (1600W PS Only)
Power Supply Output (per power supply)	Rated Steady-State Power	800 W at 100 VAC to 127 VAC input, 800 W at 200 VAC to 240 VAC input, 800 W at 240 VDC input for China only - (800W Platinum PS only) 800 W at 200 VAC to 240 VAC input, 800 W at 240 VDC input for China only - (800W Titanium PS only)

Technical Specification	าร	
		800 W at 200 VAC to 277 VAC input, 800 W at 380 VDC input - (800W Universal PS only) 800 W at -40 VDC to -72 VDC - (800W -48VDC PS only) 1600 W at 200 VAC to 240 VAC input, 1600 W at 240 VDC input - (1600W PS Only)
	Maximum Peak Power	800 W at 100 VAC to 127 VAC input, 800 W at 200 VAC to 240 VAC input, 800 W at 240 VDC input for China only - (800W Platinum PS only) 800 W at 200 VAC to 240 VAC input, 800 W at 240 VDC input for China only - (800W Titanium PS only) 800 W at 200 VAC to 277 VAC input, 800 W at 380 VDC input- (800W Universal PS only) 800 W at -40 VDC to -72 VDC - (800W -48VDC PS only) 2200 W for 1ms (turbo mode) at 200 VAC to 240 VAC input - (1600W PS Only)
		NOTE: To review typical system power ratings use the HPE Power Advisor which is available online located at url: <u>http://www.hpe.com/info/hppoweradvisor</u> .
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).
	Extended Ambient Operating Support	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
		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.
	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).
Relative Humidity	Operating	8% to 90% relative humidity (Rh), 28°C (82.4°F) maximum wet bulb temperature, non-condensing.
(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

Technical Specifications

		m/min (1500 ft/m	in).	
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.			
	Product Configuration	Entry	Base	Performance
	Idle - LwAd	5.0 B	5.1 B	5.1 B
	Idle - L _{pAm}	47 dBA	48 dBA	48 dBA
	Operating - L MAd	5.3 B	5.7 B	5.6 B
	Operating - L _P Am	50 dBA	54 dBA	53 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.			
Regulatory Information	To view the regulatory information for your product, view the Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products, available at the Hewlett Packard Enterprise Support Center: http://www.hpe.com/support/Safety-Compliance-EnterpriseProducts			

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

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
18-Dec-2017	From Version 5 to 6	Changed	Configuration Information - Factory Integrated Models and Core Options were revised.
04-Dec-2017	From Version 4 to 5	Added	Added support for new core boosting Intel® Xeon® Processors 6143 and 8165 and support for up to 24 16GB NVDIMM.
		Changed	Processors and Memory were revised.
16-Oct-2017	From Version 3 to 4	Added	Added note – 1600W Power supplies only support high line voltage (200VAC to 240VAC) – to power supplies.
		Changed	Memory section was revised.
25-Sep-2017	From Version 2 to 3	Added	Added support for new Intel® Xeon® Processors 6144 and 6146. Added new 128 GB LRDIMM to support higher memory configurations to support 6 TB. New SSD offering and NICs options were added. Added HPE Support Services options.
		Changed	Standard Features, Core Options, Additional Options, and Memory section were revised.
7-Aug-2017	From Version 1 to 2	Added	Added new Solid State Drives offering to the HPE Drives.
		Changed	Standard Features, Pre-configured Models, Configuration Information - Factory Integrated Models, Core Options, Additional Options, and Memory section were revised. Updated notes.
		Removed	Removed references to Insight Control.
11-Jul-2017	Version 1	New	New QuickSpecs.



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For hard drives, 1GB = 1 billion bytes. Actual formatted capacity is less

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