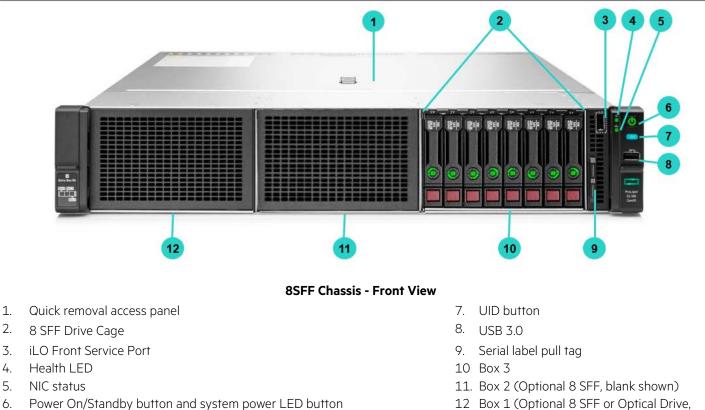
QuickSpecs

Overview

HPE ProLiant DL180 Gen10 Server

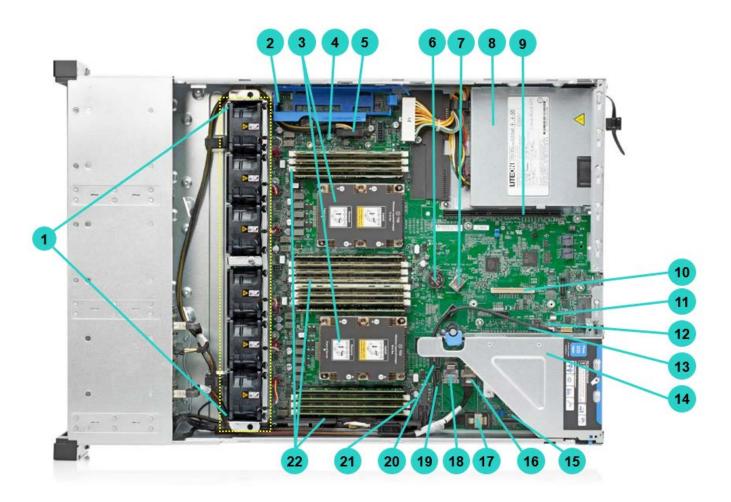
Adaptable for diverse workloads and environments, the secure 2P 2U HPE ProLiant DL180 Gen10 delivers world-class compelling performance with the right balance of expandability and scalability. Designed for supreme versatility and resiliency with the right balance of reliability, manageability and performance, while being backed by a comprehensive warranty make it ideal for multiple environments from Containers to Cloud to Big Data. Standardize on the industry's most trusted compute platform. SMBs and enterprises running application.



12 Box 1 (Optional 8 SFF or Optical Drive, blank shown)



Overview

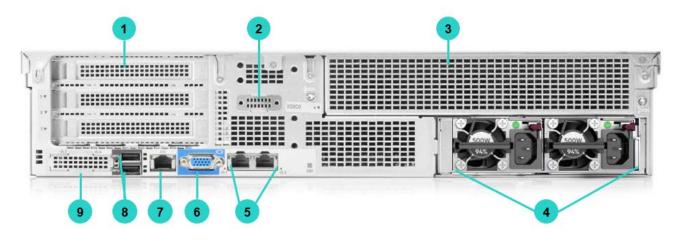


8SFF Chassis – with optional 2nd CPU - Internal View

- Standard single rotor hot swap fans 1 CPU – 3 standard fans
 Optional: 2 CPUs – 5 standard fans (1 redundant fan shown)
- 2. **Optional:** Smart Storage Battery (No battery shown)
- 3. Up to 2 processors (shown with standard heat sinks)
- 4. **Optional:** Chassis Intrusion Detection connector
- 5. Hard Drive backplane power connector
- 6. System Battery
- 7. Internal USB 3.0 connector
- 8. Power supply (non-redundant power supply shown)
- 9. Secondary (CPU2) PCIe 3.0 riser
- 10. Flexible Smart Array Controller Connector
- 11. Optional: TPM 2.0

- 12. MicroSD card slot
- 13. iLO Service Port Connector
- 14. Primary PCle Riser: 8x8x8
- 15. Media Module Connector
- 16. Mini-SAS port 1
- 17. Mini-SAS port 2
- 18. Mini-SAS port 3
- 19. SATA port 4
- 20. SATA port 5
- 21. Front Power USB 3.0 connector
- 22. DDR4 DIMM slots
 - (Fully populated 16 DIMMs shown)

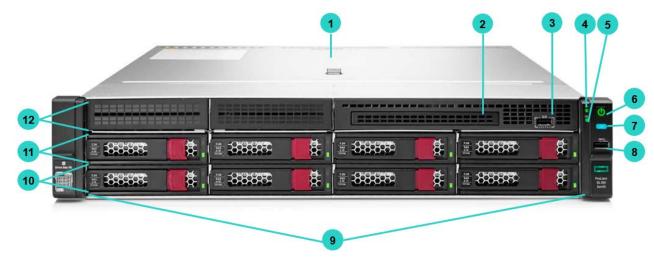
Overview



1. Primary Riser. PCI Slots (Slots 1-3 top to bottom)

- 2. **Optional:** Serial Port
- 3. Secondary Riser. PCI Slots (Slots 4-6 top to bottom, requires second riser card and second processor).
- 4. Power Supply (Redundant Hot plug shown)
- 5. Embedded 2 x 1GbE Network Adapter

- Rear View
- 6. VGA Port
- 7. Dedicated iLO management port
- 8. USB connectors 3.0 (2)
- 9. **Optional:** Media Module



8LFF Chassis - Front View

1. Quick removal access panel 7. UID button 2. Optional: Optical drive (Blank Shown) 8. USB 3.0 3. iLO Front Service Port 9. LFF Drive cage 4. Health LED 10. Box 3 5. 11. Box 2 NIC Status Power On/Standby button and system power LED button 12. Box 1 6.

Overview



12LFF Chassis - Front View

- 1. Quick removal access panel
- 2. Health LED
- 3. NIC Status
- 4. Power On/Standby button and system power LED button
- 5. UID button

7. LFF Drive cage

USB 3.0

8. Box 3

6.

- 9. Box 2
- 10 Box 1

What's New

- Japan specific pre-configured models powered by 2nd generation Intel Xeon Scalable Processors
- European Union (EU) Lot 9 regulation, please visit: https://www.hpe.com/us/en/about/environment/msds-specs-more.html for more information
- 800/960GB, 1.6/1.92/3.84TB SAS MU LFF SSDs
- 480/960GB, 1.92TB SATA RI LFF SSDs
- 1.92TB SATA MU LFF SSD
- 240/480/960GB, 1.92/3.84/7.68TB SATA Read Intensive SFF multi-vendor SSDs
- 480/960GB, 1.92/3.84TB SATA Mixed Use SFF multi-vendor SSDs

Platform Information

Form Factor

2U rack

Chassis Types

- 8 SFF (upgradeable to 24SFF)
- 8 LFF
- 12 LFF

NOTE: All models come with the S100i Smart Array Controller with embedded software RAID support for 14 drives. However this needs to be enabled using Enable SW RAID option (784308-B21) while configuring.

System Fans

Standard – fan types (without rear drives)

Model	Non-Redundant	Redundant
1P Model	3 fans	4 fans
2P Model	5 fans	6 fans

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

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

NOTE: Field upgrades from 1st generation processors (x1xx) to 2nd generation processors (x2xx) not supported.

NOTE: "U" processors (i.e. 6209U) only supported in single socket configurations

NOTE: This table covers the public Intel offering only.

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

2nd Generation Intel[®] Xeon[®] Scalable Processor Family

		SSOL L anny					
Intel Xeon Models	CPU Frequency	Cores	L3 Cache	Power	UPI	DDR4	Memory per socket
Platinum 8256 Processor	3.8 GHz	4	16.50 MB	105W	3 @ 10.4 GT/s	2933 MT/s	1TB
Platinum 8253 Processor	2.2 GHz	16	22.00 MB	125W	3 @ 10.4 GT/s	2933 MT/s	1TB

NOTES:

- 6-Channel DDR4 @ 2933 MT/s.
- 2TB max RAM
- Support for: Vector Neural Network Instructions (VNNI) for inference acceleration.
- 2 and 4 socket capable, 2S 2UPI, 2S 3UPI, 4S 3UPI @ 10.4 GT/s.
- Intel Turbo Boost Technology, Intel Hyper-Threading Technology Intel AVX-512 (2x 512-bit FMA).
- 48 lanes PCIe 3.0, advanced RAS

2 nd Generation Intel [®] Xeo	n® Scalable Proce	ssor Family					
Intel Xeon Models	CPU	Cores	L3 Cache	Power	UPI	DDR4	Memory
	Frequency						per socket
Gold 6252 Processor	2.1 GHz	24	35.75 MB	150W	3 @ 10.4 GT/s	2933 MT/s	1TB
Gold 6248 Processor	2.5 GHz	20	27.5 MB	150W	3 @ 10.4 GT/s	2933 MT/s	1TB
Gold 6244 Processor	3.6 GHz	8	24.75 MB	150W	3 @ 10.4 GT/s	2933 MT/s	1TB
Gold 6242 Processor	2.8 GHz	16	22 MB	150W	3 @ 10.4 GT/s	2933 MT/s	1TB
Gold 6240 Processor	2.6 GHz	18	24.75 MB	150W	3 @ 10.4 GT/s	2933 MT/s	1TB
Gold 6238 Processor	2.1 GHz	22	30.25 MB	140W	3 @ 10.4 GT/s	2933 MT/s	1TB
Gold 6234 Processor	3.3 GHz	8	24.75 MB	130W	3 @ 10.4 GT/s	2933 MT/s	1TB
Gold 6230 Processor	2.1 GHz	20	27.5 MB	125W	3 @ 10.4 GT/s	2933 MT/s	1TB
Gold 6226 Processor	2.7 GHz	12	19.25 MB	125W	3 @ 10.4 GT/s	2933 MT/s	1TB
Gold 6210U Processor	2.5 GHz	20	27.50 MB	150W	N/A	2933 MT/s	1TB
Gold 6209U Processor	2.1 GHz	20	27.50 MB	125W	N/A	2933 MT/s	1TB
Gold 5222 Processor	3.8 GHz	4	16.5 MB	105W	2 @ 10.4 GT/s	2933 MT/s	1TB
Gold 5220 Processor	2.2 GHz	18	24.75 MB	125W	2 @ 10.4 GT/s	2666 MT/s	1TB
Gold 5218 Processor	2.3 GHz	16	22 MB	125W	2 @ 10.4 GT/s	2666 MT/s	1TB
Gold 5217 Processor	3.0 GHz	8	11 MB	115W	2 @ 10.4 GT/s	2666 MT/s	1TB
Gold 5215 Processor	2.5 GHz	10	13.75 MB	85W	2 @ 10.4 GT/s	2666 MT/s	1TB

NOTES:

- 6-Channel DDR4 @ 2933 MT/s (Gold 6200 & 5222 skus only), 2666 MT/s on all Gold 5200 skus (except 5222 @ 2933 MT/s).
- 2TB max RAM
- Support for: Vector Neural Network Instructions (VNNI) for inference acceleration.
- 2 and 4 socket capable, 2S 2UPI, 2S 3UPI, 4S 3UPI @ 10.4 GT/s.
- Intel Turbo Boost Technology, Intel Hyper-Threading Technology Intel AVX-512 (2x 512-bit FMA).
- 48 lanes PCIe 3.0, advanced RAS

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

2nd Generation Intel[®] Xeon[®] Scalable Processor Family

NOTES:

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

1st Generation Intel[®] Xeon[®] Scalable Processor Family

Intel Xeon Models	CPU Frequency	Cores	L3 Cache	Power	UPI	DDR4	Memory per
Silver 4110 Processor	2.1 GHz	8	11.00 MB	85W	2 @ 9.6 GT/s	2400 MT/s	768GB

NOTES:

- 6-Channel DDR4 @ 2400 MT/s providing up to 1.5TB max RAM
- 2 Socket supports 2UPI @ 9.6 GT/s
- Intel Turbo Boost Technology, Intel Hyper-Threading Technology, Intel AVX-512(1x 512-bit FMA), 48 lanes PCIe 3.0, standard RAS supported.

2nd Generation Intel[®] Xeon[®] Scalable Processor Family

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

NOTES:

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

1st Generation Intel[®] Xeon[®] Scalable Processor Family

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

NOTES:

- 6-Channel DDR4 @ 2133 MT/s providing up to 1.5TB max RAM
- 2 Socket supports 2UPI @ 9.6 GT/s
- Intel AVX-512(1x 512-bit FMA), 48 lanes PCIe 3.0, standard RAS supported.

Chipset

Intel C622 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

HPE DDR4 SmartMemory **Type** Registered (RDIMM), Load Reduced (LRDIMM)

DIMM Slots Available	16	8 DIMM slots per processor, 6 channels per processor, 2 channels @ 2 DIMMs per channel, 4 channels @ 1 DIMM per channel
Maximum capacity (LRDIMM)	1.0 TB	16 x 64 GB LRDIMM @ 2933 MT/s
Maximum capacity (RDIMM)	1.0 TB	16 x 64 GB RDIMM @ 2933 MT/s

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

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

Memory Protection

Advanced ECC

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

Online Spare

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

NOTE: For more information see our <u>Memory RAS feature technical whitepaper</u>

Expansion Slots CPU1 x8x8x8 riser					
Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
1	PCIe 3.0	X8	X8	Full-height, full-length slot	Proc 1
2	PCIe 3.0	X8	X8	Full-height, half-length slot	Proc 1
3	PCIe 3.0	X8	X8	Full-height, half-length slot	Proc 1

NOTE: Bus Width Indicates the number of physical electrical lanes running to the connector.

FlexibleLOM								
Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes			
1	PCle 3.0	X8	X8	Full-height, full-length slot	Proc 1			
2	PCle 3.0	X8	X8	Full-height, half-length slot	Proc 1			
3	PCIe 3.0	X8	X8	FlexibleLOM	Proc 1			

NOTE: Bus Width Indicates the number of physical electrical lanes running to the connector. **NOTE:** This riser is necessary to install FlexibleLOM adapters

CPU1 x16x8 riser								
Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes			
1	PCle 3.0	X16	X16	Full-height, full-length slot	Proc 1			
2	PCle 3.0	X8	X8	Full-height, half-length slot	Proc 1			

NOTE: Bus Width Indicates the number of physical electrical lanes running to the connector.

CPU2 x8x8x8 riser

Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
1	PCle 3.0	X8	X8	Full-height,full-length slot	Proc 2
2	PCle 3.0	X8	X8	Full-height,half-length slot	Proc 2
3	PCle 3.0	X8	X8	Low profile	Proc 2

NOTE: Bus Width Indicates the number of physical electrical lanes running to the connector.

NOTE: When populating the second optional riser slot, the second processor must be installed.

CPU2 x16x8 riser					
Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
1	PCle 3.0	X16	X16	Full-height, full-length slot	Proc 2
2	PCle 3.0	X8	X8	Low profile	Proc 2

NOTE: Bus Width Indicates the number of physical electrical lanes running to the connector. **NOTE:** When populating the second optional riser slot, the second processor must be installed. **NOTE:** Includes GPU cable kit

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**. One of the following depending on model

Software RAID

HPE Smart Array S100i SR Gen10 SW RAID

NOTE: HPE Smart Array S100i SR Gen10 SW RAID will operate in UEFI mode only. For legacy support an additional controller will be needed.

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

NOTE: HPE Smart Array S100i SR Gen10 SW RAID only supports Windows and does not support Linux. For Linux users, HPE offers a solution that uses in-distro open-source software to create a two-disk RAID 1 boot volume. For more information visit: <u>https://downloads.linux.hpe.com/SDR/project/lsrrb/</u>

Essential RAID Controller

- HPE Smart Array E208i-p SR Gen10 Controller
- HPE Smart Array E208e-p SR Gen10 Controller
- HPE Smart Array E208i-a SR Gen10 Controller

Performance RAID Controller

- HPE Smart Array P408i-a SR G10 LH Controller
- HPE Smart Array P408i-p SR Gen10 Controller
- HPE Smart Array P408e-p SR Gen10 Controller
- **NOTE:** Performance RAID Controllers require the HPE Smart Storage Battery (P01366-B21) which is sold separately.

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

Internal Storage Devices Optical Drive Optional: DVD-ROM or DVD-RW Hard Drives None ship standard

Maximum Internal Storage

	Capacity	Configuration
Hot Plug SFF SAS HDD	62.4 TB	24 + 2 X 2.4 TB (with dual SFF rear drive option)
Hot Plug LFF SAS HDD	144 TB	12 X 12 TB
Hot Plug SFF SATA HDD	52 TB	24 + 2 X 2 TB (with dual SFF rear drive option)
Hot Plug LFF SATA HDD	144 TB	12 X 12 TB
Hot Plug SFF SAS SSD	100 TB	24 + 2 X 3.84 TB (with dual SFF rear drive option)
Hot Plug LFF SAS SSD	46.1 TB	12 X 3.84 TB
Hot Plug SFF SATA SSD	200 TB	24 + 2 X 7.68 TB (with dual SFF rear drive option)
Hot Plug LFF SATA SSD	23 TB	12 X 1.92 TB

Power Supply

- HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit **NOTE:** Available in 94% efficiency.
- HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit NOTE: Available in 94% and 96% efficiency.
 NOTE: Also available in -48VDC power input.

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

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

Interfaces	
Video	1 rear – VGA Port (standard)
Network Ports	2 x 1 GbE ports embedded on board with optional Media Module, FlexibleLOM or stand up card
Management Network Port	1 Gb Dedicated
Front iLO Service Port	1 standard
Micro SD Slot	1 Micro SD NOTE: The Micro SD slot is not a hot-pluggable device. Customers should not attempt to plug an SD card into the SD slot while the server is powered.
USB 3.0	Up to 4 total: 1 front, 2 rear, 1 internal (secure),

Operating Systems and Virtualization Software Support for ProLiant Servers

- Windows Server 2016**
- Windows Server 2019**
- VMware ESXi 6.5 U3**
- VMware ESXi 6.7 U3**
- Red Hat Enterprise Linux (RHEL) 7.6 (with Kbase)**
- SUSE Linux Enterprise Server (SLES) 12 SP4**
- SUSE Linux Enterprise Server (SLES) 15 SP1**

NOTE:**Certified

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 **<u>http://www.hpe.com/info/ilo</u>**.

Industry Standard Compliance

- ACPI 6.1 Compliant
- PCIe 3.0 Compliant
- WOL Support
- Microsoft[®] Logo certifications
- PXE Support
- USB 3.0 Compliant (internal)
- SMBIOS 3.1
- UEFI 2.6
- Redfish API
- IPMI 2.0
- Secure Digital 2.0
- Advanced Encryption Standard (AES)
- Triple Data Encrytion Standard (3DES)
- SNMP v3
- TLS 1.2
- DMTF Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP)
- Active Directory v1.0
- ASHRAE A3/A4

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

- UEFI (Unified Extensible Firmware Interface Forum)
 NOTE: UEFI is the default for the HPE ProLiant DL160 Gen10. Legacy mode can be selected in the field.
- European Union (EU) eco-design regulations for server and storage products, known as Lot 9, go into effect on March 1st, 2020. Among other requirements, for servers this directive establishes power thresholds for idle state, as well as efficiency and performance in active state which vary among configurations. HPE ProLiant Gen10 servers are compliant with Lot9 requirements. For more information regarding HPE Lot 9 conformance, please visit: https://www.hpe.com/us/en/about/environment/msds-specs-more.html

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

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.

Service Pack for ProLiant (SPP)

The Service Pack for ProLiant (SPP) is a comprehensive collection of server firmware, drivers, and system software tested as a single solution stack, which is delivered as a single ISO image. Learn more at http://www.hpe.com/servers/spp

Security

- UEFI Secure Boot and Secure Start support
- Immutable Silicon Root of Trust
- FIPS 140-2 validation
- Common Criteria certification
- Configurable for PCI DSS compliance
- Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser
- Support for Commercial National Security Algorithms (CNSA)
- iLO Security Modes
- Granular control over iLO interfaces
- 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) 2.0 option
- Bezel Locking Kit
- Chassis Intrusion detection option

HPE Server UEFI/Legacy ROM

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

NOTE: The UEFI System Utilities tool is analogous to the HPE ROM-Based Setup Utility (RBSU) of legacy BIOS. For more

information, please visit http://www.hpe.com/servers/uefi.

- UEFI enables numerous new capabilities specific to HPE ProLiant servers such as:
- Secure Boot and Secure Start enable for enhanced security
- Operating system specific functionality
- Support for > 2.2 TB (using GPT) boot drives
- USB 3.0 Stack
- Embedded UEFI Shell
- Mass Configuration Deployment Tool using iLO RESTful API that is Redfish API Conformant
- PXE boot support for IPv6 networks
- Workload Profiles for simple performance optimization
- UEFI Boot Mode only:
- NVMe Boot Support
- 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.

UEFI

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

Hassle free server and OS provisioning for 1 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 <u>http://www.hpe.com/info/restfulapi</u>.

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: <u>http://www.hpe.com/info/ilo/mobileapp</u>.

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

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 or **<u>http://www.hpe.com/servers/powershell</u>**.

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

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>.

Warranty

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

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

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

Optional Features

Server Management

HPE iLO Advanced

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

HPE InfoSight for Servers

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

HPE Insight Cluster Management Utility (CMU)

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

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 costeffective 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. <u>https://h22174.www2.hpe.com/SimplifiedConfig/Welcome#</u>

Service and Support

HPE Pointnext - Service and Support

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. Hewlett Packard Enterprise is ready to bring together all the pieces of the puzzle for you, with an eye on the future, and make the complex simple.

Connect your devices:

Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Achieve up to 77%¹ reduction in down time, near 100%² diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to HPE support.

NOTE:¹ IDC **NOTE:**² HPE CSC reports 2014 – 2015

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

Recommended Services

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

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

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

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

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

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

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

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

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

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

Service and Support

HPE Server Hardware Installation

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

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

HPE Installation and Startup Service

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

HPE Datacenter Care service

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

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

HPE Factory Express for Servers and storage

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

Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. HPE products supported through Factory Express include a wide array of servers and storage: HPE Integrity, HPE ProLiant, HPE Apollo, HPE ProLiant Server Blades, HPE BladeSystem, HPE 9000 servers as well as the MSAxxxx3PAR suite, XP, rackable tape libraries and configurable network switches.

HPE Service Credits

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

HPE Education Services

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

Parts and Materials

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

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

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

HPE Support Center

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

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

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

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

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

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

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

Pre- Configured Models

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

European Union (EU) eco-design regulations for server and storage products, known as Lot 9, go into effect on March 1st, 2020. Among other requirements, for servers this directive establishes power thresholds for idle state, as well as efficiency and performance in active state which vary among configurations. HPE ProLiant Gen10 servers are compliant with Lot9 requirements. For more information regarding HPE Lot 9 conformance, please visit:

Powered by 2nd Genera	tion Intel Xeon Processors		
SKU Number	P19562-xx1	P19564-xx1	P19563-xx1
Model Name	HPE ProLiant DL180 Gen10 3204 1.9GHz 6-core 1P 16GB- R S100i 8LFF 500W PS Server	HPE ProLiant DL180 Gen10 4208 2.1GHz 8-core 1P 16GB- R S100i 8SFF 500W PS Server	HPE ProLiant DL180 Gen10 4208 2.1GHz 8-core 1P 16GB-R P408i-a 12LFF 500W PS Server
Chassis	8LFF	8SFF	12LFF
Processor	3204 (1.9GHz/6-core/85W)	4208 (2.1GHz/8-core/85W)	4208 (2.1GHz/8-core/85W)
Number of Processors	One processor with Standard heatsink	One processor with Standard heatsink	One processor with Standard heatsink
Memory	HPE 16GB 1Rx4 PC4-2933Y-R Smart Kit	HPE 16GB 1Rx4 PC4-2933Y- R Smart Kit	HPE 16GB 1Rx4 PC4-2933Y-R Smart Kit
Network Controller	Embedded 2-Port 1GbE	Embedded 2-Port 1GbE	Embedded 2-Port 1GbE
Storage Controller	Embedded 14Port S100i NOTE: SATA only	Embedded 14Port S100i NOTE: SATA only	P408i-a with Smart Storage Battery
Hard Drive	None included	None included	None included
Optical Drive	None included	None included	None included
PCIe Slots	3 PCIe: 1x8 FHFL, 1x8 FHHL, 1x8	3 FHHL	
Power Supply	1x 500W Hot Plug; RPS ready	1x 500W Hot Plug; RPS ready	1x 500W Hot Plug; RPS ready
Fans	3 Fans	3 Fans	3 Fans
Management	HPE iLO5, Infosight		
Rail Kit	LFF Easy Install	SFF Easy Install	LFF Easy Install
Form Factor	2U Rack		
Warranty	3-year parts, 3-year labor, 3-year	onsite support with next business	day response
Localizations Available	-B21, -291	-B21, -291	-B21, -291

https://www.hpe.com/us/en/about/environment/msds-specs-more.html

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

Pre- Configured Models

Powered by 1 st Generation	on Intel Xeon Processors	
SKU Number	879514-B21	879512-B21
Model Name	HPE ProLiant DL180 Gen10 4110 2.1GHz 8- core 1P 16GB-R S100i 8SFF 1x500W PS Server	HPE ProLiant DL180 Gen10 4110 2.1GHz 8-core 1P 16GB-R S100i 8LFF 1x500W
Chassis	8SFF	8LFF
Processor	4110 (2.1GHz/8-core/85W)	4110 (2.1GHz/8-core/85W)
Number of Processors	One processor with Standard heatsink	One processor with Standard heatsink
Memory	HPE 16GB 1Rx4 PC4-2666V-R Smart Kit	HPE 16GB 1Rx4 PC4-2666V-R Smart Kit
Network Controller	Embedded 2-Port 1GbE	Embedded 2-Port 1GbE
Storage Controller	Embedded 14Port S100i	Embedded 14Port S100i
	NOTE: SATA only	NOTE: SATA
Hard Drive	None included	
Optical Drive	None included	
PCIe Slots	3 PCIe: 1x8 FHFL, 1x8 FHHL, 1x8 FHHL	
Power Supply	1x 500W Hot Plug; RPS ready	1x 500W Hot Plug; RPS ready
Fans	3 Fans	3 Fans
Management	HPE iLO5	
Rail Kit	SFF Easy Install	LFF Easy Install
Form Factor	2U Rack	
Warranty	3-year parts, 3-year labor, 3-year onsite support v	with next business day response
Localizations Available	-B21	-B21

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

Configuration Information - Factory Integrated Models

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

European Union (EU) eco-design regulations for server and storage products, known as Lot 9, go into effect on March 1st, 2020. Among other requirements, for servers this directive establishes power thresholds for idle state, as well as efficiency and performance in active state which vary among configurations. HPE ProLiant Gen10 servers are compliant with Lot9 requirements. For more information regarding HPE Lot 9 conformance, please visit:

https://www.hpe.com/us/en/about/environment/msds-specs-more.html

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

CTO Server	HPE DL180 Gen10 8SFF CTO Server	HPE DL180 Gen10 8LFF CTO Server	HPE DL180 Gen10 12LFF CTO Server
SKU Number	879517-B21	879515-B21	879516-B21
Processor	Not included as standard		
DIMM Slots	16-DIMM Slots		
Storage Controller	Embedded SW RAID with 14 SATA ports, choice of HPE modular Smart Array and PCIe plug-in controller		
PCle	None Standard. Risers need to be added		
Drive Cage – included	8SFF	8LFF	12LFF
Network Controller	Embedded 2x1GbE with option	onal, Media Module, HPE Flexible	LOM on riser and optional
Fans	1 CPU- 3 Standard Fans 2 CPU- 5 Standard Fans		
Management	HPE iLO with Intelligent Provisioning (standard), iLO Advanced and OneView (optional)		
USB	Front: 1 USB 3.0 + iLO service Rear: 2 USB 3.0 Internal: 1 USB 3.0	e port	

CTO Server	HPE DL180 Gen10 8SFF CTO Server	HPE DL180 Gen10 8LFF CTO Server	HPE DL180 Gen10 12LFF CTO Server
Included Drive Cage	8 SFF	8LFF	12 LFF
Additional drive cages	8-16 SFF SAS/SATA 16-24 SFF SAS/SATA	8—12 LFF SAS/SATA	
ODD - 2SFF Rear	Optional	Optional	2SFF rear- Optional

Step 2a: Choose Required Options - Processors (only one of the following unless otherwise noted)

Please select one -L21 processor required below.

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

For example: first processor, select P12007-L21 then for second processor, select P12007-B21.

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

NOTE: For first processor, -L21 will include 3 fans, For second processor, -B21 will add 2 additional fans

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

2 ^{ad} Generation Intel Xeon-Platinum P12007-L21 HPE DL180 Gen10 Intel Xeon-Platinum 8256 (3.8GHz/4-core/125W) FIO Processor Kit P12007-L21 2 ^{ad} Generation Intel Xeon-Old (252 (2.1GHz/14-core/125W) FIO Processor Kit P11161-L21 PHE DL180 Gen10 Intel Xeon-Gold 6252 (2.1GHz/14-core/150W) FIO Processor Kit P11161-L21 HPE DL180 Gen10 Intel Xeon-Gold 6252 (2.1GHz/14-core/150W) FIO Processor Kit P11161-L21 HPE DL180 Gen10 Intel Xeon-Gold 6248 (3.6GHz/8-core/150W) FIO Processor Kit P11159-L21 HPE DL180 Gen10 Intel Xeon-Gold 6242 (2.8GHz/16-core/150W) FIO Processor Kit P11158-L21 HPE DL180 Gen10 Intel Xeon-Gold 6243 (3.3GHz/8-core/150W) FIO Processor Kit P11157-L21 HPE DL180 Gen10 Intel Xeon-Gold 6238 (3.3GHz/8-core/150W) FIO Processor Kit P11166-L21 HPE DL180 Gen10 Intel Xeon-Gold 6238 (3.3GHz/8-core/150W) FIO Processor Kit P11166-L21 HPE DL180 Gen10 Intel Xeon-Gold 6230 (2.1GHz/20-core/125W) FIO Processor Kit P11166-L21 HPE DL180 Gen10 Intel Xeon-Gold 6210 (2.5GHz/20-core/125W) FIO Processor Kit P11162-L21 HPE DL180 Gen10 Intel Xeon-Gold 6220 (2.3GHz/4-core/150W) FIO Processor Kit P11162-L21 NOTE: Only supported in single socket configurations P11162-L21 NOTE: Only supported in single socket configurations P11164-L21 <t< th=""><th>Processor Option Kits (Required Processor)</th><th>SKU</th></t<>	Processor Option Kits (Required Processor)	SKU
HPE DL180 Gen10 Intel Xeon-Platinum 8253 (2.2GHz/16-core/125W) FIO Processor Kit P12006-L21 2 rd Generation Intel Xeon-Gold 6252 (2.1GHz/24-core/150W) FIO Processor Kit P11160-L21 HPE DL180 Gen10 Intel Xeon-Gold 6248 (2.5GHz/20-core/150W) FIO Processor Kit P11106-L21 HPE DL180 Gen10 Intel Xeon-Gold 6248 (2.5GHz/20-core/150W) FIO Processor Kit P11159-L21 HPE DL180 Gen10 Intel Xeon-Gold 6248 (2.6GHz/18-core/150W) FIO Processor Kit P11157-L21 HPE DL180 Gen10 Intel Xeon-Gold 6248 (2.6GHz/18-core/150W) FIO Processor Kit P11157-L21 HPE DL180 Gen10 Intel Xeon-Gold 6238 (2.1GHz/22-core/130W) FIO Processor Kit P11157-L21 HPE DL180 Gen10 Intel Xeon-Gold 6238 (2.1GHz/22-core/130W) FIO Processor Kit P11156-L21 HPE DL180 Gen10 Intel Xeon-Gold 6230 (2.1GHz/22-core/125W) FIO Processor Kit P11165-L21 HPE DL180 Gen10 Intel Xeon-Gold 6210 (2.5GHz/20-core/125W) FIO Processor Kit P11165-L21 NOTE: Only supported in single socket configurations P11162-L21 NOTE: Only supported in single socket configurations P11164-L21 HPE DL180 Gen10 Intel Xeon-Gold 5220 (2.2GHz/14-core/115W) FIO Processor Kit P11154-L21 HPE DL180 Gen10 Intel Xeon-Gold 5220 (2.2GHz/14-core/115W) FIO Processor Kit P11154-L21 HPE DL180 Gen10 Intel Xeon-Gold 5220 (2.2GHz/14-core/15W) FIO Processor Kit <td< th=""><th>2nd Generation Intel Xeon- Platinum</th><th></th></td<>	2 nd Generation Intel Xeon- Platinum	
2 ⁴⁴ Generation Intel Xeon-Gold HPE DL180 Gen10 Intel Xeon-Gold 6252 (21GHz/24-core/150W) FIO Processor Kit P11160-L21 HPE DL180 Gen10 Intel Xeon-Gold 6248 (25GHz/20-core/150W) FIO Processor Kit P11150-L21 HPE DL180 Gen10 Intel Xeon-Gold 6244 (25GHz/20-core/150W) FIO Processor Kit P11158-L21 HPE DL180 Gen10 Intel Xeon-Gold 6242 (28GHz/16-core/150W) FIO Processor Kit P11158-L21 HPE DL180 Gen10 Intel Xeon-Gold 6242 (28GHz/16-core/150W) FIO Processor Kit P11157-L21 HPE DL180 Gen10 Intel Xeon-Gold 6238 (21GHz/22-core/140W) FIO Processor Kit P11157-L21 HPE DL180 Gen10 Intel Xeon-Gold 6238 (21GHz/22-core/140W) FIO Processor Kit P11156-L21 HPE DL180 Gen10 Intel Xeon-Gold 6230 (21GHz/22-core/125W) FIO Processor Kit P11156-L21 HPE DL180 Gen10 Intel Xeon-Gold 6230 (21GHz/20-core/125W) FIO Processor Kit P11165-L21 HPE DL180 Gen10 Intel Xeon-Gold 6200 (2.1GHz/20-core/125W) FIO Processor Kit P11162-L21 NOTE: Only supported in single socket configurations P11164-L21 HPE DL180 Gen10 Intel Xeon-Gold 5212 (2.3GHz/4-core/105W) FIO Processor Kit P11154-L21 HPE DL180 Gen10 Intel Xeon-Gold 5213 (2.3GHz/4-core/105W) FIO Processor Kit P11154-L21 HPE DL180 Gen10 Intel Xeon-Gold 5213 (2.3GHz/4-core/105W) FIO Processor Kit P11154-L21 HPE DL180 Gen10	HPE DL180 Gen10 Intel Xeon-Platinum 8256 (3.8GHz/4-core/105W) FIO Processor Kit	P12007-L21
HPE DL180 Gen10 Intel Xeon-Gold 6252 (2.1GHz/24-core/150W) FIO Processor Kit P11161-L21 HPE DL180 Gen10 Intel Xeon-Gold 6248 (2.5GHz/20-core/150W) FIO Processor Kit P11159-L21 HPE DL180 Gen10 Intel Xeon-Gold 6244 (3.6GHz/8-core/150W) FIO Processor Kit P11157-L21 HPE DL180 Gen10 Intel Xeon-Gold 6242 (2.8GHz/18-core/150W) FIO Processor Kit P11157-L21 HPE DL180 Gen10 Intel Xeon-Gold 6238 (2.1GHz/22-core/140W) FIO Processor Kit P11157-L21 HPE DL180 Gen10 Intel Xeon-Gold 6238 (2.1GHz/22-core/130W) FIO Processor Kit P11157-L21 HPE DL180 Gen10 Intel Xeon-Gold 6238 (2.1GHz/22-core/130W) FIO Processor Kit P11156-L21 HPE DL180 Gen10 Intel Xeon-Gold 6230 (2.1GHz/22-core/125W) FIO Processor Kit P11165-L21 HPE DL180 Gen10 Intel Xeon-Gold 6230 (2.1GHz/20-core/125W) FIO Processor Kit P11165-L21 NOTE: Only supported in single socket configurations P11162-L21 NOTE: Only supported in single socket configurations P11162-L21 HPE DL180 Gen10 Intel Xeon-Gold 5217 (3.0GHz/4-core/125W) FIO Processor Kit P11162-L21 NOTE: Only supported in single socket configurations P11164-L21 HPE DL180 Gen10 Intel Xeon-Gold 5217 (3.0GHz/4-core/125W) FIO Processor Kit P11154-L21 HPE DL180 Gen10 Intel Xeon-Gold 5217 (3.0GHz/4-core/125W) FIO Processor Kit P11154-L21	HPE DL180 Gen10 Intel Xeon-Platinum 8253 (2.2GHz/16-core/125W) FIO Processor Kit	P12006-L21
HPE DL180 Gen10 Intel Xeon-Gold 6248 (2.5GHz/20-core/150W) FIO Processor KitP11160-L21HPE DL180 Gen10 Intel Xeon-Gold 6244 (3.6GHz/8-core/150W) FIO Processor KitP11157-L21HPE DL180 Gen10 Intel Xeon-Gold 6242 (2.8GHz/16-core/150W) FIO Processor KitP11157-L21HPE DL180 Gen10 Intel Xeon-Gold 6238 (2.1GHz/22-core/140W) FIO Processor KitP11167-L21HPE DL180 Gen10 Intel Xeon-Gold 6238 (2.1GHz/22-core/140W) FIO Processor KitP11167-L21HPE DL180 Gen10 Intel Xeon-Gold 6238 (2.1GHz/22-core/125W) FIO Processor KitP11167-L21HPE DL180 Gen10 Intel Xeon-Gold 6230 (2.1GHz/20-core/125W) FIO Processor KitP11165-L21HPE DL180 Gen10 Intel Xeon-Gold 6202 (2.7GHz/12-core/125W) FIO Processor KitP11165-L21HPE DL180 Gen10 Intel Xeon-Gold 6200 (2.1GHz/20-core/125W) FIO Processor KitP11165-L21HPE DL180 Gen10 Intel Xeon-Gold 6200 (2.1GHz/20-core/125W) FIO Processor KitP11162-L21NOTE: Only supported in single socket configurationsP11162-L21HPE DL180 Gen10 Intel Xeon-Gold 5202 (2.3GHz/4-core/125W) FIO Processor KitP11162-L21NOTE: Only supported in single socket configurationsP11164-L21HPE DL180 Gen10 Intel Xeon-Gold 5217 (3.0GHz/4-core/125W) FIO Processor KitP11152-L21HPE DL180 Gen10 Intel Xeon-Gold 5217 (3.0GHz/4-core/125W) FIO Processor KitP11153-L21HPE DL180 Gen10 Intel Xeon-Gold 5215 (2.5GHz/10-core/125W) FIO Processor KitP11153-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/10W) FIO Processor KitP11152-L21IPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/10W) FIO Processor KitP11152-L21IPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz	2 nd Generation Intel Xeon-Gold	
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HPE DL180 Gen10 Intel Xeon-Gold 6242 (2.8GHz/16-core/150W) FIO Processor KitP11158-L21HPE DL180 Gen10 Intel Xeon-Gold 6240 (2.6GHz/18-core/150W) FIO Processor KitP11157-L21HPE DL180 Gen10 Intel Xeon-Gold 6238 (2.1GHz/22-core/140W) FIO Processor KitP11166-L21HPE DL180 Gen10 Intel Xeon-Gold 6230 (2.1GHz/22-core/125W) FIO Processor KitP11166-L21HPE DL180 Gen10 Intel Xeon-Gold 6226 (2.7GHz/12-core/125W) FIO Processor KitP11165-L21HPE DL180 Gen10 Intel Xeon-Gold 6226 (2.7GHz/12-core/125W) FIO Processor KitP11165-L21HPE DL180 Gen10 Intel Xeon-Gold 6220 (2.1GHz/20-core/125W) FIO Processor KitP11163-L21NOTE: Only supported in single socket configurationsP11162-L21NOTE: Only supported in single socket configurationsP11162-L21HPE DL180 Gen10 Intel Xeon-Gold 5220 (2.2GHz/18-core/125W) FIO Processor KitP11162-L21NOTE: Only supported in single socket configurationsP11164-L21HPE DL180 Gen10 Intel Xeon-Gold 5220 (2.2GHz/18-core/125W) FIO Processor KitP11164-L21HPE DL180 Gen10 Intel Xeon-Gold 5221 (2.3GHz/16-core/125W) FIO Processor KitP11151-L21HPE DL180 Gen10 Intel Xeon-Gold 5215 (2.5GHz/10-core/85W) FIO Processor KitP11151-L21HPE DL180 Gen10 Intel Xeon-Gold 5215 (2.5GHz/10-core/85W) FIO Processor KitP11151-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) FIO Processor KitP11151-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/85W) FIO Processor KitP11151-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/8-core/85W) FIO Processor KitP11149-L21HPE DL180 Gen10 Intel Xeon-Silver 4210 (2.2GHz/12-core/85W) FIO Pro	HPE DL180 Gen10 Intel Xeon-Gold 6248 (2.5GHz/20-core/150W) FIO Processor Kit	P11160-L21
HPE DL180 Gen10 Intel Xeon-Gold 6240 (2.6GHz/18-core/150W) FIO Processor KitP11157-L21HPE DL180 Gen10 Intel Xeon-Gold 6238 (2.1GHz/22-core/140W) FIO Processor KitP11166-L21HPE DL180 Gen10 Intel Xeon-Gold 6230 (2.1GHz/20-core/125W) FIO Processor KitP11166-L21HPE DL180 Gen10 Intel Xeon-Gold 6230 (2.1GHz/20-core/125W) FIO Processor KitP11165-L21HPE DL180 Gen10 Intel Xeon-Gold 6206 (2.7GHz/12-core/125W) FIO Processor KitP11165-L21HPE DL180 Gen10 Intel Xeon-Gold 6200 (2.5GHz/20-core/125W) FIO Processor KitP11162-L21NOTE: Only supported in single socket configurationsP11162-L21NOTE: Only supported in single socket configurationsP11162-L21HPE DL180 Gen10 Intel Xeon-Gold 5202 (2.1GHz/20-core/125W) FIO Processor KitP11162-L21NOTE: Only supported in single socket configurationsP11164-L21HPE DL180 Gen10 Intel Xeon-Gold 5220 (2.2GHz/18-core/125W) FIO Processor KitP11154-L21HPE DL180 Gen10 Intel Xeon-Gold 5218 (2.3GHz/4-core/125W) FIO Processor KitP11154-L21HPE DL180 Gen10 Intel Xeon-Gold 5215 (2.3GHz/10-core/125W) FIO Processor KitP11154-L21HPE DL180 Gen10 Intel Xeon-Gold 5215 (2.5GHz/10-core/125W) FIO Processor KitP11154-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) FIO Processor KitP11151-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) FIO Processor KitP11151-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.2GHz/12-core/85W) FIO Processor KitP11140-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.2GHz/12-core/85W) FIO Processor KitP11149-L21HPE DL180 Gen10 Intel Xeon-Silver 4210 (2.2GHz/12-core/85W) FIO	HPE DL180 Gen10 Intel Xeon-Gold 6244 (3.6GHz/8-core/150W) FIO Processor Kit	P11159-L21
HPE DL180 Gen10 Intel Xeon-Gold 6238 (2.1GHz/22-core/140W) FIO Processor KitP11167-L21HPE DL180 Gen10 Intel Xeon-Gold 6234 (3.3GHz/8-core/130W) FIO Processor KitP11166-L21HPE DL180 Gen10 Intel Xeon-Gold 6230 (2.1GHz/20-core/125W) FIO Processor KitP11165-L21HPE DL180 Gen10 Intel Xeon-Gold 6226 (2.7GHz/12-core/125W) FIO Processor KitP11163-L21HPE DL180 Gen10 Intel Xeon-Gold 6210U (2.5GHz/20-core/125W) FIO Processor KitP11163-L21NOTE: Only supported in single socket configurationsP11162-L21HPE DL180 Gen10 Intel Xeon-Gold 5200 (2.1GHz/20-core/125W) FIO Processor KitP11162-L21NOTE: Only supported in single socket configurationsP11164-L21HPE DL180 Gen10 Intel Xeon-Gold 5220 (3.8GHz/4-core/125W) FIO Processor KitP11164-L21HPE DL180 Gen10 Intel Xeon-Gold 5220 (2.2GHz/18-core/125W) FIO Processor KitP11152-L21HPE DL180 Gen10 Intel Xeon-Gold 5218 (2.3GHz/16-core/125W) FIO Processor KitP11153-L21HPE DL180 Gen10 Intel Xeon-Gold 5215 (2.5GHz/10-core/125W) FIO Processor KitP11153-L21HPE DL180 Gen10 Intel Xeon-Solver 4216 (2.1GHz/16-core/100W) FIO Processor KitP11152-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) FIO Processor KitP11151-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/85W) FIO Processor KitP11164-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/8-core/85W) FIO Processor KitP11149-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/8-core/85W) FIO Processor KitP11149-L21HPE DL180 Gen10 Intel Xeon-Silver 4210 (2.2GHz/12-core/85W) FIO Processor KitP11149-L21HPE DL180 Gen10 Intel Xeon-Silver 4208	HPE DL180 Gen10 Intel Xeon-Gold 6242 (2.8GHz/16-core/150W) FIO Processor Kit	P11158-L21
HPE DL180 Gen10 Intel Xeon-Gold 6234 (3.3GHz/8-core/130W) FIO Processor KitP11166-L21HPE DL180 Gen10 Intel Xeon-Gold 6230 (2.1GHz/20-core/125W) FIO Processor KitP11165-L21HPE DL180 Gen10 Intel Xeon-Gold 6210U (2.5GHz/20-core/125W) FIO Processor KitP11163-L21HPE DL180 Gen10 Intel Xeon-Gold 6210U (2.5GHz/20-core/150W) FIO Processor KitP11163-L21NOTE: Only supported in single socket configurationsP11162-L21HPE DL180 Gen10 Intel Xeon-Gold 6209U (2.1GHz/20-core/125W) FIO Processor KitP11164-L21NOTE: Only supported in single socket configurationsP11164-L21HPE DL180 Gen10 Intel Xeon-Gold 5222 (3.8GHz/4-core/105W) FIO Processor KitP11164-L21HPE DL180 Gen10 Intel Xeon-Gold 5220 (2.2GHz/18-core/125W) FIO Processor KitP11155-L21HPE DL180 Gen10 Intel Xeon-Gold 5218 (2.3GHz/16-core/125W) FIO Processor KitP11154-L21HPE DL180 Gen10 Intel Xeon-Gold 5215 (2.5GHz/10-core/15W) FIO Processor KitP11154-L21HPE DL180 Gen10 Intel Xeon-Gold 5215 (2.5GHz/10-core/15W) FIO Processor KitP11153-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) FIO Processor KitP11151-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) FIO Processor KitP11150-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) FIO Processor KitP11144-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/8-core/85W) FIO Processor KitP11145-L21HPE DL180 Gen10 Intel Xeon-Silver 4208 (2.1GHz/8-core/85W) FIO Processor KitP11146-L21HPE DL180 Gen10 Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) FIO Processor KitP11147-L21HPE DL180 Gen10 Intel Xeon-Silver 4110	HPE DL180 Gen10 Intel Xeon-Gold 6240 (2.6GHz/18-core/150W) FIO Processor Kit	P11157-L21
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HPE DL180 Gen10 Intel Xeon-Gold 6210U (25GHz/20-core/150W) FIO Processor KitP11163-L21NOTE: Only supported in single socket configurationsP11162-L21NOTE: Only supported in single socket configurationsP11162-L21NOTE: Only supported in single socket configurationsP11164-L21HPE DL180 Gen10 Intel Xeon-Gold 5222 (3.8GHz/4-core/105W) FIO Processor KitP11155-L21HPE DL180 Gen10 Intel Xeon-Gold 5222 (2.2GHz/18-core/125W) FIO Processor KitP11155-L21HPE DL180 Gen10 Intel Xeon-Gold 5218 (2.3GHz/16-core/125W) FIO Processor KitP11154-L21HPE DL180 Gen10 Intel Xeon-Gold 5215 (2.5GHz/10-core/85W) FIO Processor KitP11153-L21HPE DL180 Gen10 Intel Xeon-Gold 5215 (2.5GHz/10-core/85W) FIO Processor KitP11151-L21HPE DL180 Gen10 Intel Xeon-SilverP11151-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) FIO Processor KitP11151-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.2GHz/12-core/85W) FIO Processor KitP11151-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.2GHz/12-core/85W) FIO Processor KitP11149-L21HPE DL180 Gen10 Intel Xeon-Silver 4210 (2.2GHz/10-core/85W) FIO Processor KitP11148-L21HPE DL180 Gen10 Intel Xeon-Silver 4210 (2.2GHz/10-core/85W) FIO Processor KitP11148-L21HPE DL180 Gen10 Intel Xeon-Silver 4210 (2.1GHz/8-core/85W) FIO Processor KitP11147-L21HPE DL180 Gen10 Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) FIO Processor KitP11146-L21HPE DL180 Gen10 Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) FIO Processor KitP11146-L21HPE DL180 Gen10 Intel Xeon-BronzeP11146-L21HPE DL180 Gen10 Intel Xeon-Bronze 3204	HPE DL180 Gen10 Intel Xeon-Gold 6230 (2.1GHz/20-core/125W) FIO Processor Kit	P11156-L21
NOTE: Only supported in single socket configurationsHPE DL180 Gen10 Intel Xeon-Gold 6209U (2.1GHz/20-core/125W) FIO Processor KitP11162-L21NOTE: Only supported in single socket configurationsP11164-L21HPE DL180 Gen10 Intel Xeon-Gold 5222 (3.8GHz/4-core/105W) FIO Processor KitP11155-L21HPE DL180 Gen10 Intel Xeon-Gold 5220 (2.2GHz/18-core/125W) FIO Processor KitP11154-L21HPE DL180 Gen10 Intel Xeon-Gold 5218 (2.3GHz/16-core/125W) FIO Processor KitP11154-L21HPE DL180 Gen10 Intel Xeon-Gold 5215 (2.5GHz/10-core/15W) FIO Processor KitP11153-L21HPE DL180 Gen10 Intel Xeon-Gold 5215 (2.5GHz/10-core/85W) FIO Processor KitP11152-L21HPE DL180 Gen10 Intel Xeon-SilverP11152-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) FIO Processor KitP11151-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/85W) FIO Processor KitP11151-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.2GHz/12-core/85W) FIO Processor KitP11140-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.2GHz/10-core/85W) FIO Processor KitP11140-L21HPE DL180 Gen10 Intel Xeon-Silver 4210 (2.2GHz/10-core/85W) FIO Processor KitP11146-L21HPE DL180 Gen10 Intel Xeon-Silver 4208 (2.1GHz/8-core/85W) FIO Processor KitP11147-L21HPE DL180 Gen10 Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) FIO Processor KitP11142-L21HPE DL180 Gen10 Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) FIO Processor KitP11146-L21HPE DL180 Gen10 Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) FIO Processor KitP11146-L21HPE DL180 Gen10 Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) FIO Processor KitP11146-L21 </td <td>HPE DL180 Gen10 Intel Xeon-Gold 6226 (2.7GHz/12-core/125W) FIO Processor Kit</td> <td>P11165-L21</td>	HPE DL180 Gen10 Intel Xeon-Gold 6226 (2.7GHz/12-core/125W) FIO Processor Kit	P11165-L21
HPE DL180 Gen10 Intel Xeon-Gold 6209U (2.1GHz/20-core/125W) FIO Processor KitP11162-L21NOTE: Only supported in single socket configurationsP11164-L21HPE DL180 Gen10 Intel Xeon-Gold 5222 (3.8GHz/4-core/105W) FIO Processor KitP11164-L21HPE DL180 Gen10 Intel Xeon-Gold 5220 (2.2GHz/18-core/125W) FIO Processor KitP11155-L21HPE DL180 Gen10 Intel Xeon-Gold 5218 (2.3GHz/16-core/125W) FIO Processor KitP11154-L21HPE DL180 Gen10 Intel Xeon-Gold 5217 (3.0GHz/8-core/115W) FIO Processor KitP11153-L21HPE DL180 Gen10 Intel Xeon-Gold 5215 (2.5GHz/10-core/85W) FIO Processor KitP11152-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) FIO Processor KitP11151-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) FIO Processor KitP11151-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/85W) FIO Processor KitP11151-L21HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.2GHz/12-core/85W) FIO Processor KitP11149-L21HPE DL180 Gen10 Intel Xeon-Silver 4210 (2.2GHz/12-core/85W) FIO Processor KitP11149-L21HPE DL180 Gen10 Intel Xeon-Silver 4208 (2.1GHz/8-core/85W) FIO Processor KitP11148-L21HPE DL180 Gen10 Intel Xeon-Silver 4208 (2.1GHz/8-core/85W) FIO Processor KitP11147-L21HPE DL180 Gen10 Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) FIO Processor KitP11142-L21HPE DL180 Gen10 Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) FIO Processor KitP11146-L21HPE DL180 Gen10 Intel Xeon-BronzeP11146-L21HPE DL180 Gen10 Intel Xeon-Bronze 3204 (1.9GHz/6-core/85W) FIO Processor KitP11146-L21HPE DL180 Gen10 Intel Xeon-Bronze 3204 (1.9GHz/6-core/85W)	HPE DL180 Gen10 Intel Xeon-Gold 6210U (2.5GHz/20-core/150W) FIO Processor Kit	P11163-L21
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1 st Generation Intel Xeon- Bronze	2 nd Generation Intel Xeon- Bronze	
	HPE DL180 Gen10 Intel Xeon-Bronze 3204 (1.9GHz/6-core/85W) FIO Processor Kit	P11146-L21
HPE DI 180 Gen10 Intel Xeon-Bronze 3106 (1 7GHz/8-core/85W) FIO Processor Kit 870720-1 21	1 st Generation Intel Xeon- Bronze	
	HPE DL180 Gen10 Intel Xeon-Bronze 3106 (1.7GHz/8-core/85W) FIO Processor Kit	879729-L21

Step 2b: Choose Memory Options

Please select one or more memory from below.

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

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

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

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

NOTE: Maximum memory capacity and speed per processor is dependent on processor model selection or limitation. **NOTE:** DDR4-2933 Memory Kits are only supported with 2nd Generation Intel Xeon Scalable Series Processors and DDR4-2666 Memory Kits are only supported with 1st Generation Intel Xeon Scalable Series Processors.

Registered DIMMs (RDIMMs) for 2 nd Generation Intel Xeon Scalable Series	
HPE 64GB (1x64GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00930-B21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00924-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00922-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00920-B21
HPE 8GB (1x8GB) Single Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00918-B21
Registered DIMMs (RDIMMs) for 1 st Generation Intel Xeon Scalable Series	
HPE 16GB (1x16GB) Single Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	815098-B21
Load Reduced DIMMs (LRDIMMs) for 2 nd Generation Intel Xeon Scalable Series	
HPE 64GB (1x64GB) Quad Rank x4 DDR4-2933 CAS-21-21-21 Load Reduced Smart Memory Kit	P00926-B21
Step 2c: Choose Power Supplies	
Please select one or two power supplies from below.	
NOTE: Mixing of 2 different power supplies is NOT supported.	
NOTE: HPE DL160/180 Gen10 Redundant Power Supply Enablement Kit (866442-B21) required with	
selection of power supply. HPE Flex Slot Power Supplies	
	865408-B21
HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit 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
HPE DL160/180 Gen10 Redundant Power Supply Enablement Kit	866442-B21
NOTE: This enablement kit is required with the selection of a Flex Slot power supply	
Step 3: Choose Additional Factory Integratable Options	
One of the following from each list may be selected if desired at time of factory integration	
HPE Legacy FIO Mode Setting	758959-B22
HPE FIO Enable Smart Array SW RAID	784308-B21
HPE Gen10 TPM 1.2 FIO Setting	872108-B21
Cable Kits (factory integrated only)	
HPE DL180 Gen10 8 to 16SFF Smart Array S100i/E208i-p/P408i-p FIO Cable Kit	875154-B21
NOTE: This will be used to connect Box2 to Smart Array S100i/E208i-p/P408i-p	
HPE DL180 Gen10 8 to 16SFF Smart Array E208i-a/P408i-a SAS FIO Cable Kit	875156-B21
NOTE: This will be used to connect Box2 to Smart Array E208i-a/P408i-a	
HPE DL180 Gen10 16 to 24SFF Smart Array S100i/E208i-p/P408i-p FIO Cable Kit	875160-B21
NOTE: This will be used to connect Box1 to Smart Array S100i/E208i-p/P408i-p	
HPE DL180 Gen10 16 to 24SFF Smart Array E208i-a/P408i-a SAS FIO Cable Kit	875162-B21
NOTE: This will be used to connect Box1 to Smart Array E208i-a/P408i-a	
HPE DL180 Gen10 LFF Smart Array S100i/E208i-p/P408i-p FIO Cable Kit	875170-B21
NOTE: This will be used to connect to Smart Array S100i/E208i-p/P408i-p	
HPE DL180 Gen10 LFF Smart Array E208i-a/P408i-a SAS FIO Cable Kit	875172-B21
NOTE: This will be used to connect to Smart Array E208i-a/P408i-a	
HPE DL180 Gen10 Rear 2SFF to Smart Array S100i/E208i-p/P408i-p FIO Cable Kit	879410-B21
NOTE: This will be used to connect the rear 2SFF to Smart Array E208i-p/P408i-p	

HPE DL180 Gen10 Rear 2SFF to Smart Array E208i-a/P408i-a SAS FIO Cable Kit	875181-B21
NOTE: This will be used to connect the rear 2SFF to Smart Array E208i-a/P408i-a	
HPE DL180 Gen10 Rear 2SFF to Smart Array S100i SATA FIO Cable Kit	875183-B21
NOTE: This will be used to connect the rear 2SFF to Smart Array S100i	
HPE DL180 Gen10 Rear 2SFF to SAS Expander FIO Cable Kit	875179-B21
NOTE: Connects SAS Expander to the rear 2SFF drive cage	
HPE DL180 Gen10 SFF Box3 to Smart Array S100i/E208i-p/P408i-p FIO Cable Kit	879752-B21
NOTE: This will be used to connect the default Box3 in 8SFF Chassis to Smart Array S100i/E208i-p/P408i-p	
HPE DL180 Gen10 SFF Box3 to Smart Array E208i-a/P408i-a SAS FIO Cable Kit	879754-B21
NOTE: This will be used to connect the default Box3 in 8SFF Chassis to Smart Array E208i-a/P408i-a	
HPE Unique Options (factory integrated only)	
HPE DL180 Gen10 8 to 16SFF FIO Upgrade Kit	875151-B21
HPE DL180 Gen10 16 to 24SFF FIO Upgrade Kit	875158-B21
HPE DL180 Gen10 Rear 2SFF FIO Enablement Kit	875176-B21

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

QuickSpecs

Core Options

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

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

Risers

KISEIS	
NOTE: This server ships with no riser installed by default. If you want to use any PCIe cards, one of the below	
risers must be selected.	
HPE DL180 Gen10 CPU1 x8x8x8 PCIe Riser Kit	878484-B21
HPE DL180 Gen10 CPU1 FlexibleLOM Riser Kit	866941-B21
NOTE: This riser is required to use FlexibleLOM adapters	
HPE DL180 Gen10 CPU1 x16/x8 PCIe Riser Kit	866939-B21
HPE DL180 Gen10 CPU2 x8/x8/x8 PCIe Riser Kit	866945-B21
HPE DL180 Gen10 CPU2 x16/x8 PCIe Riser and GPU Enablement Kit	866943-B21
NOTE: Includes GPU cable kit	
Cable Kits	
HPE DL360 Gen9 Rear Serial Port and Enablement Kit	764646-B21
Cooling Options	
HPE DL180 Gen10 6038 Redundant Fan Kit	866947-B21
NOTE: This kit contains one additional fan.	
Optical Drive Options	
HPE 9.5mm SATA DVD-ROM Optical Drive	726536-B21
NOTE: The ODD Enablement kit (866951-B21) is required for this option on a SFF model.	
HPE 9.5mm SATA DVD-RW Optical Drive	726537-B21
NOTE: The ODD Enablement kit (866951-B21) is required for this option on a SFF model.	
HPE DL180 Gen10 SFF Optical Drive Enablement Kit	866951-B21
NOTE: Cannot be seleced with 24SFF configuration	
HPE Mobile USB DVD-RW Optical Drive	701498-B21
NOTE: This option is only supported on USB 3.0 ports.	
Security	
HPE Gen10 Chassis Intrusion Detection Kit	867824-B21
HPE Bezel Lock Kit	875519-B21
HPE Gen10 2U Bezel Kit	867809-B21
HPE Trusted Platform Module 2.0 Gen10 Option	864279-B21
Field Upgrade Kits	SKU
HPE DL180 Gen10 8 to 16SFF Upgrade Kit	866957-B21
NOTE: Includes cables needed to connect to S100i or Smart Array controller	
HPE DL180 Gen10 16 to 24SFF Upgrade Kit	875144-B21
NOTE: Includes cables needed to connect to \$100i or Smart Array controller	

866963-B21

HPE DL180 Gen10 Rear 2SFF Enablement Kit	866961-B21
NOTE: Includes cables needed to connect to S100i, Smart Array controller, or expander.	
HPE DL180 Gen10 SFF Optical Drive Enablement Kit	866951-B21
HPE Processors	
Please select one –L21 processor required above. For second processor, please select the same processor model with –B21 from Core Options – HPE Processors	
section below.	
For example: first processor, select 878947-L21 then for second processor, select 878947-B21.	
NOTE: Field upgrades from 1 st generation processors (x1xx) to 2 nd generation processors (x2xx) not supported.	
NOTE: Mixing of 2 different processor models is not supported.	
NOTE: For first processor, -L21 will include 3 fans, For second processor, -B21 will add 2 additional fans	
NOTE: When 2 nd Generation Intel Xeon Scalable Processor is slected, then only DDR4-2933 Memory Kit can be	
selected; When 1 st Generation Intel Xeon Scalable Processor is selected, then only DDR4-2666 Memory Kit can	
be selected.	CKU
Description	SKU
2 nd Generation Intel Xeon- Platinum	D12007 D21
HPE DL180 Gen10 Intel Xeon-Platinum 8256 (3.8GHz/4-core/105W) Processor Kit	P12007-B21
HPE DL180 Gen10 Intel Xeon-Platinum 8253 (2.2GHz/16-core/125W) Processor Kit	P12006-B21
2 nd Generation Intel Xeon-Gold	
HPE DL180 Gen10 Intel Xeon-Gold 6252 (2.1GHz/24-core/150W) Processor Kit	P11161-B21
HPE DL180 Gen10 Intel Xeon-Gold 6248 (2.5GHz/20-core/150W) Processor Kit	P11160-B21
HPE DL180 Gen10 Intel Xeon-Gold 6244 (3.6GHz/8-core/150W) Processor Kit	P11159-B21
HPE DL180 Gen10 Intel Xeon-Gold 6242 (2.8GHz/16-core/150W) Processor Kit	P11158-B21
HPE DL180 Gen10 Intel Xeon-Gold 6240 (2.6GHz/18-core/150W) Processor Kit	P11157-B21
HPE DL180 Gen10 Intel Xeon-Gold 6238 (2.1GHz/22-core/140W) Processor Kit HPE DL180 Gen10 Intel Xeon-Gold 6234 (3.3GHz/8-core/130W) Processor Kit	P11167-B21 P11166-B21
	Р11100-В21 Р11156-В21
HPE DL180 Gen10 Intel Xeon-Gold 6230 (2.1GHz/20-core/125W) Processor Kit HPE DL180 Gen10 Intel Xeon-Gold 6226 (2.7GHz/12-core/125W) Processor Kit	P11150-B21 P11165-B21
HPE DL180 Gen10 Intel Xeon-Gold 5222 (3.8GHz/12-core/105W) Processor Kit	P11164-B21
HPE DL180 Gen10 Intel Xeon-Gold 5222 (3.3GHz/18-core/125W) Processor Kit	P11155-B21
HPE DL180 Gen10 Intel Xeon-Gold 5218 (2.3GHz/16-core/125W) Processor Kit	P11154-B21
HPE DL180 Gen10 Intel Xeon-Gold 5217 (3.0GHz/8-core/115W) Processor Kit	P11153-B21
HPE DL180 Gen10 Intel Xeon-Gold 5215 (2.5GHz/10-core/85W) Processor Kit	P11152-B21
2 nd Generation Intel Xeon- Silver	
HPE DL180 Gen10 Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) Processor Kit	P11151-B21
HPE DL180 Gen10 Intel Xeon-Silver 4215 (2.5GHz/8-core/85W) Processor Kit	P11150-B21
HPE DL180 Gen10 Intel Xeon-Silver 4214 (2.2GHz/12-core/85W) Processor Kit	P11149-B21
HPE DL180 Gen10 Intel Xeon-Silver 4210 (2.2GHz/10-core/85W) Processor Kit	P11148-B21
HPE DL180 Gen10 Intel Xeon-Silver 4208 (2.1GHz/8-core/85W) Processor Kit	P11147-B21
1 st Generation Intel Xeon-Silver	
HPE DL180 Gen10 Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) Processor Kit	879731-B21
2 nd Generation Intel Xeon- Bronze	0///01 011
HPE DL180 Gen10 Intel Xeon-Bronze 3204 (1.9GHz/6-core/85W) Processor Kit	P11146-B21
1 st Generation Intel Xeon- Bronze	
HPE DL180 Gen10 Intel Xeon-Bronze 3106 (1.7GHz/8-core/85W) Processor Kit	879729-B21
HPE Memory	
For new Gen10 memory population rule whitepaper and optimal memory performance guidelines, please go to:	
https://www.hpe.com/docs/memory-population-rules	
For Gen10 memory speed table please go to https://www.hpe.com/docs/memory-speed-table	

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

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

NOTE: Maximum memory capacity and speed per processor is dependent on processor model selection or limitation. **NOTE:** DDR4-2933 Memory Kits are only supported with 2nd Generation Intel Xeon Scalable Series Processors and DDR4-2666 Memory Kits are only supported with 1st Generation Intel Xeon Scalable Series Processors.

HPE DDR4 Memory

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

HPE 64GB (1x64GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00930-B21
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00924-B21
HPE 16GB (1x16GB) Dual Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00922-B21
HPE 16GB (1x16GB) Single Rank x4 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00920-B21
HPE 8GB (1x8GB) Single Rank x8 DDR4-2933 CAS-21-21-21 Registered Smart Memory Kit	P00918-B21
Registered DIMMs (RDIMMs) for 1 st Generation Intel Xeon Scalable Series	
HPE 16GB (1x16GB) Single Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit	815098-B21
Load Reduced DIMMs (LRDIMMs) for 2 nd Generation Intel Xeon Scalable Series	
HPE 64GB (1x64GB) Quad Rank x4 DDR4-2933 CAS-21-21-21 Load Reduced Smart Memory Kit	P00926-B21
NOTE: The maximum memory speed is a function of the memory type, memory configuration, and processor	
model.	

HPE Drives

Enterprise - 12G SAS - SFF Drives

HPE 2.4TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	881457-B21
HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	872481-B21
HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872479-B21
HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872477-B21
HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872475-B21
HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870759-B21
HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870757-B21
HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870753-B21
Enterprise - 12G SAS- LFF Drives	
HPE 900GB SAS 12G Enterprise 15K LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware HDD	870761-B21
Midline - 12G SAS - LFF Drives	
HPE 12TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD	881781-B21
HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e Digitally Signed Firmware HDD	834031-B21
HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e HDD	861746-B21
HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD	833928-B21
HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD	833926-B21
Midline - 12G SAS- SFF Drives	
HPE 2TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD	765466-B21
HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD	832514-B21
Midline - 6G SATA - LFF Drives	
HPE 12TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Helium 512e Digitally Signed Firmware HDD	881787-B21
HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e Digitally Signed Firmware HDD	834028-B21
HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty 512e HDD	861742-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD	861683-B21
HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD	861681-B21
HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) LP 1yr Wty Digitally Signed Firmware HDD	861686-B21

Midline - 6G SATA- SFF Drives HPE 2TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD 765455-B21 HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD 655710-B21 **SSD Selection** For SSD selection guidance, please visit https://ssd.hpe.com/ Read Intensive - 12G SAS - SFF - Solid State Drives HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD P10444-B21 HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty SSD P19905-B21 HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3vr Wtv Digitally Signed Firmware SSD P04519-B21 HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P06586-B21 HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD P10442-B21 HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty SSD P19903-B21 HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04517-B21 HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P06584-B21 HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD P10440-B21 Mixed Use - 12G SAS - SFF - Solid State Drives HPE 3.84TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD P10460-B21 HPE 1.92TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Value SAS Digitally Signed Firmware SSD P10454-B21 HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty SSD P19915-B21 HPE 960GB SAS 12G Mixed Use SC 3yr Wty Value SAS Digitally Signed Firmware SSD P10448-B21 HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty SSD P19913-B21 HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P09090-B21 HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04527-B21 HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P09088-B21 HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04525-B21 Write Intensive - 12G SAS - SFF - Solid State Drives HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04543-B21 HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04541-B21 Mixed Use - 12G SAS - LFF - Solid State Drives HPE 3.84TB SAS 12G Mixed Use LFF (3.5in) LPC 3yr Wty Value SAS Digitally Signed Firmware SSD P10462-B21 HPE 1.92TB SAS 12G Mixed Use LFF (3.5in) LPC 3yr Wty Value SAS Digitally Signed Firmware SSD P10458-B21 HPE 1.6TB SAS 12G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD P04535-B21 HPE 960GB SAS 12G Mixed Use LFF (3.5in) LPC 3yr Wty Value SAS Digitally Signed Firmware SSD P10452-B21 HPE 800GB SAS 12G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD P04531-B21 Read Intensive - SATA - SFF - Solid State Drives HPE 7.68TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor P18430-B21 HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD P18428-B21 HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P05946-B21 HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD P18426-B21 HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P05938-B21 HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD P18424-B21 HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P05932-B21 HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD P18422-B21 P05928-B21 HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P04560-B21 P18420-B21 HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD P05924-B21 875503-B21 HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD

Mixed Use - SATA - SFF - Solid State Drives

Mixed Use - SATA - SFF - Solid State Drives	
HPE 3.84TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Multi Vendor SSD	P18438-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Multi Vendor SSD	P18436-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09722-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P05986-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P07930-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Multi Vendor SSD	P18434-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09716-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P05980-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P07926-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Multi Vendor SSD	P18432-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P09712-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P05976-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P07922-B21
Read Intensive - SATA - LFF - Solid State Drives	
HPE 1.92TB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD	P04501-B21
HPE 960GB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD	P09691-B21
HPE 480GB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD	P04499-B21
Mixed Use - SATA - LFF - Solid State Drives	
HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD	P07934-B21
HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD	P09726-B21
Internal Dual M.2 Kit	
HPE Universal SATA HHHL 3yr Wty M.2 Kit	878783-B21
NOTE: The Universal SATA M.2 Kit above will require a PCIe slot and support up to two of the same M.2 cards	
below.	
Read Intensive - M.2 - Solid State Drives (2280 type)	
HPE 960GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD	875500-B21
HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD	875498-B21
Mixed Use - M.2 - Solid State Drives (2280 type)	
HPE 960GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875492-B21
HPE 480GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875490-B21
HPE 240GB SATA 6G Mixed Use M.2 2280 3yr Wty Digitally Signed Firmware SSD	875488-B21
M.2 Cable Kit	
HPE DL180 Gen10 M.2 SATA Cable Kit	875135-B21
NOTE: Must be selected along with "HPE Universal SATA HHHL 3yr Wty M.2 Kit- 878783-B21"	
Hard Drive Blank Kits	
HPE Small Form Factor Hard Drive Blank Kit	666987-B21
HPE Gen9 LFF HDD Spade Blank Kit	807878-B21
HPE Networking	
1 Gigabit Ethernet adapters	
-	647594-B21
1 Gigabit Ethernet adapters	647594-B21 811546-B21
1 Gigabit Ethernet adapters HPE Ethernet 1Gb 4-port 331T Adapter	
1 Gigabit Ethernet adapters HPE Ethernet 1Gb 4-port 331T Adapter HPE Ethernet 1Gb 4-port 366T Adapter	
1 Gigabit Ethernet adapters HPE Ethernet 1Gb 4-port 331T Adapter HPE Ethernet 1Gb 4-port 366T Adapter NOTE: Max 1 per system. Can only be installed in Slot 1	811546-B21
1 Gigabit Ethernet adapters HPE Ethernet 1Gb 4-port 331T Adapter HPE Ethernet 1Gb 4-port 366T Adapter NOTE: Max 1 per system. Can only be installed in Slot 1 HPE Ethernet 1Gb 2-port 361T Adapter	811546-B21 652497-B21
1 Gigabit Ethernet adaptersHPE Ethernet 1Gb 4-port 331T AdapterHPE Ethernet 1Gb 4-port 366T AdapterNOTE: Max 1 per system. Can only be installed in Slot 1HPE Ethernet 1Gb 2-port 361T AdapterHPE Ethernet 1Gb 2-port 332T Adapter	811546-B21 652497-B21
1 Gigabit Ethernet adaptersHPE Ethernet 1Gb 4-port 331T AdapterHPE Ethernet 1Gb 4-port 366T AdapterNOTE: Max 1 per system. Can only be installed in Slot 1HPE Ethernet 1Gb 2-port 361T AdapterHPE Ethernet 1Gb 2-port 332T Adapter10 Gigabit Ethernet adapters	811546-B21 652497-B21 615732-B21

HPE Ethernet 10Gb 2-port 530T Adapter	656596-B21
HPE Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
HPE Ethernet 10Gb 2-port 535T Adapter	813661-B21
HPE Ethernet 10Gb 2-port 562SFP+ Adapter	727055-B21
HPE Ethernet 10Gb 2-port 562T Adapter	817738-B21
25 Gigabit Ethernet adapters	
HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter	867328-B21
HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	817718-B21
HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter	817753-B21
FlexibleLOM adapters	01//00 021
HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	764285-B21
HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter	817749-B21
HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	817709-B21
HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter	867334-B21
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	727054-B21
HPE Ethernet 10Gb 2-port 562FLR-T Adapter	817745-B21
HPE FlexFabric 10Gb 4-port 536FLR-T Adapter	764302-B21
HPE Ethernet 10Gb 2-port 535FLR-T Adapter	817721-B21
HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
HPE Ethernet 1Gb 4-port 331FLR Adapter	629135-B22
HPE Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
NOTE: The DL180 Gen10 ships with 2x 1 Gb Embedded Network controller.	
NOTE: Only one FlexibleLOM can be added to the server. These options are upgradeable and can be changed	
from the original configuration after the server is shipped.	
NOTE: FlexibleLOM Enablement Kit (866941-B21) is required to install these adapters	
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/adapters/pip.models.hpe-	
storefabric-converged-network-adapters.4118472.html	
Media Module adapters	
HPE Ethernet 1Gb 2-port 368FLR-T Media Module Adapter	866464-B21
HPE Ethernet 10Gb 2-port 568FLR-SFP+ Media Module Adapter	866467-B21
HPE Ethernet 10Gb 2-port 568FLR-T Media Module Adapter	866470-B21
NOTE: The DL180 Gen10 chassis ships with 2x 1 Gb embedded.	
NOTE: Only one Media Module can be added to the server. These options are upgradeable and can be changed	
from the original configuration after the server is shipped	
NOTE: These adapters should be installed in the Media Module connector slot on the system board only.	
NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic	
environments must be purchased separately.	
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 Flex Slot Power Supplies	
	045100 001
HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865408-B21
HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit	865438-B21
HPE 800W Flex Slot 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
	Daga 20

HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	830272-B21
HPE DL160/180 Gen10 Redundant Power Supply Enablement Kit	866442-B21
NOTE: This enablement kit is required with the selection of a Flex Slot power supply	

HPE Power Supplies

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

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

Additional Options

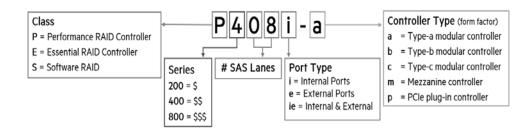
Embedded Management HPE iLO Advanced

Description	SKU
HPE iLO Advanced Electronic License with 1yr Support on iLO Licensed Features	E6U59ABE
HPE iLO Advanced 1-server License with 1yr Support on iLO Licensed Features	512485-B21
HPE iLO Advanced Flexible Quantity License with 1yr Support on iLO Licensed Features	512486-B21
HPE iLO Advanced AKA Tracking License with 1yr Support on iLO Licensed Features	512487-B21
HPE iLO Advanced Electronic License with 3yr Support on iLO Licensed Features	E6U64ABE
HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features	BD505A
HPE iLO Advanced Flexible Quantity License with 3yr Support on iLO Licensed Features	BD506A
HPE iLO Advanced AKA Tracking License with 3yr Support on iLO Licensed Features	BD507A
HPE iLO Common Password Setting	
HPE iLO Common Password FIO Setting	P08040-B21
NOTE: Replaces iLO default randomized password by an HPE defined common password. HPE highly recommends changing this password immediately after the initial onboarding process. NOTE: Customers who want to choose their own custom iLO default password should use the HPE Factory Express Integration Services	
HPE Converged Infrastructure Management Software	
HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	
HPE OneView Advanced (without HPE iLO Advanced)	
HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU	P8B24A
HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server LTU	P8B25A
HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU	P8B26AAE
HPE OneView Physical Media Kit LTU	E5Y37A
NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be	downloaded at:
<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	
NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be download https://www.hpe.com/us/en/integrated-systems/software.html	eu af:

https://www.hpe.com/us/en/integrated-systems/software.html

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**.



Additional Options

Essential RAID Controllers

NOTE: E208i-p and E208e-p PCIe plug-in controllers use a PCIe 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
HPE Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular Controller	804326-B21
NOTE: SFF Box3 to Smart Array E208i-a/P408i-a Cable Kit' (882011-B21) is required for the installation of	
the controllers E208i-a or P408i-a	
Performance RAID Controller	
HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular Controller	804331-B21
HPE Smart Array P408e-p SR Gen10 (8 External Lanes/4GB Cache) 12G SAS PCIe Plug-in Controller	804405-B21
HPE Smart Array P408i-p SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS PCIe Plug-in Controller	830824-B21
NOTE: 'SFF Box3 to Smart Array E208i-a/P408i-a Cable Kit' (882011-B21) is required for the installation of the controllers E208i-a or P408i-a	
SAS Expander	
HPE DL180 Gen10 12Gb SFF SAS Expander Card FIO Kit with Cables	875132-B21
NOTE: Connects more than 8 drives to a single controller	
NOTE: This option comes with the necessary cables to connect to the corresponding controller and to the	
drive backplane NOTE: This option can only be used in Slot 1 on 8SFF CTO model (879517-B21)	
HPE Cable Options	
HPE Smart Storage Hybrid Capacitor with 145mm Cable Kit	P02377-B21
NOTE: Supports up to 3 P-class Smart Array controllers	102377 021
HPE 96W Smart Storage Battery (up to 20 Devices) with 145mm Cable Kit	P01366-B21
NOTE: Supports up to 6 P-class Smart Array controllers	1013000 021
HPE DL180 Gen10 SFF Box3 to Smart Array E208i-a/P408i-a Cable Kit	882011-B21
Graphics Cable Kits	002011 021
HPE DL180 Gen10 CPU2 GPU Power Cable Kit	875141-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
HPE Smart Array SR SmartCache (Single Key/Multiple Servers) E-LTU	D7S27AAE
NOTE: Smart Cache is offered on HPE Smart Array performance RAID controllers	

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

Additional Options

Converged Network Adapters

HPE StoreFabric CN1100R Dual Port Converged Network Adapter	QW990A
HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter	N3U52A
HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter	N3U51A
HPE Rack Options	
Rail Kits	
HPE 2U Small Form Factor Easy Install Rail Kit	733660-B21
NOTE: This (733660-B21) Rail kit can alos be used for LFF chassis.	
HPE 2U Cable Management Arm for Easy Install Rail Kit	733664-B21

HPE Racks

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

HPE Power Distribution Units (PDUs)

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

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

HPE Uninterruptible Power Systems (UPS)

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

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

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

HPE Rack Options

Please see the **HPE IT Access and Control** for information on these products and their specifications.

HPE USB and SD Options

HPE Enterprise Mainstream Flash Media Kits for Memory Cards	
HPE 32GB microSD Flash Memory Card	700139-B21
HPE 32GB microSD RAID 1 USB Boot Drive	P21868-B21
HPE 8GB Dual microSD Flash USB Drive	741279-B21
Additional options available to add as "ad-hoc" in OCA	

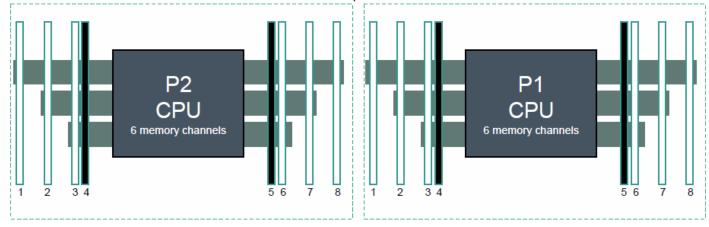
NOTE: These options will not be visible in OCA and must be added manually via the ad-hoc section

HPE Memory

HPE 32GB (1x32GB) Dual Rank x4 DDR4-2666 CAS-19-19-19 Registered Smart Memory Kit 815100-B21 NOTE: The maximum memory speed is a function of the memory type, memory configuration, and processor model.

Memory

Memory Population guidelines



HPE DL160/DL180 Gen 10 Servers Front Server

1 DIMM			3					
2 DIMM s		2	3					
3 DIMM s	1	2	3					
4 DIMM s		2	3			6	7	
5 DIMM s*	1	2	3			6	7	
6 DIMM s	1	2	3			6	7	8
7 DIMM s*	1	2	3	4		6	7	8
8 DIMM s*	1	2	3	4	5	6	7	8

(2+1+1 slots per channel)

HPE ProLiant Gen10 8 slot per CPU DIMM population order NOTE:*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.
- The maximum memory capacity is a function of the number of DIMM slots on the platform, the largest DIMM capacity qualified on the platform, the number and model of installed processors qualified on the platform.
- For details on the HPE Server Memory Options Population Rules, visit:
 - http://www.hpe.com/docs/memory-population-rules
- To realize the performance memory capabilities listed in this document, HPE DDR4 SmartMemory is required. For additional information, please see the HPE DDR4 SmartMemory QuickSpecs.

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

12LFF Drives





8LFF Drives

1

8 SFF Drives



QuickSpecs

Technical Specifications

System Unit

Dimensions (Height X Width X Depth) 8.75 x 44.54 x 63.47 cm 3.44 x 17.54 x 24.99 in (Dimensions for 12LFF)

Weight (approximate)	13.0 kg26.0 kg 28.0lb58.0 lb	Minimum: 8 SFF/LFF chassis with 1x SFF/LFF HDD and 7 HDD blanks, 2x Drive Bay blanks, 1x processor including standard heatsink, 1x power supply (plus blank), 1x Smart Array, 1x Riser installed, cables for the above)
Input Requirements (per power supply)	Rated Line Voltage	100 to 120 VAC 200 to 240 VAC
BTU Rating	Maximum	For 500W Power Supply: 1979 BTU/hr (at 100 VAC), 1911 BTU/hr (at 200 VAC), 1965 BTU/hr (at 240 VAC) for China Only
Power Supply Output (per power supply)	Rated Steady-State Power	For 500W Power Supply: 500W (at 100 VAC), 500W (at 240 VAC), 500W (at 240 VAC) input for China only
System Inlet Temperature	Standard Operating Temperature	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 Temperature	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: <u>http://www.hpe.com/servers/ashrae</u> 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: <u>http://www.hpe.com/servers/ashrae</u> 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 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 m/min (1500 ft/min).

Technical Specifications

Acoustic Noise

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

Configuration SKU	Entry(LFF) Entry(SFF)	Base(LFF) Base(SFF)	Performance(LFF) Performance(SFF)
Idle			
L _{WAd}	4.2 B	4.3 B	4.7 B
L _{pAm}	26.6 dBA	27.0 dBA	28.5 dBA
Operating			
L _{WAd}	5.2 B	5.4 B	5.7 B
L _{pAm}	35.4 dBA	37.2 dBA	39.7 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.

NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.

NOTE: The Listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels.

Emissions Classification (EMC) – 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

HPE Smart Array

For information on the HPE Smart Array E208i-p SR Gen10 Controller please refer to their **QuickSpecs**. For information on the HPE Smart Array E208e-p SR Gen10 Controller please refer to their **QuickSpecs**.

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	
03-Feb-2020	Version 12	Changed	Overview, Standard Features,Configuration Information, Pre- Configured Models, Core Options, Additional Options and Memory sections were updated.	
02-Dec-2019	Version 11	Changed	Configuration Information, Core Options, and Additional Options were updated.	
18-Nov-2019	Version 10	Changed	Overview, Standard Features, Configuration Information, Core Options, and Additional Options were updated.	
04-Nov-2019	Version 9	Changed	Standard Features and Additional Options section were updated.	
07-Oct-2019	Version 8	Changed	Overview, Standard Features, Pre-configured Models, Core Options, Additional Options, Memory and Technical Specifications sections were updated. Obsolete SKUs were removed.	
12-Aug-2019	Version 7	Changed	Overview, Standard Features and Additional Options sections were updated.	
30-Jul-2019	Version 6	Changed	Additional Options section was updated.	
01-Jul-2019	Version 5	Changed	Overview, Standard Features, Service and Support, Configuration Information and Additional Options sections were updated.	
03-Jun-2019	Version 4	Changed	Overview, Standard Features, Service and Support, Configuration Information, Additional Options, Memory, Storage and Technical Specifications sections were updated.	
02-Apr-2019	Version 3	Changed	Standard Features and Additional Options sections were updated.	
04-Mar-2019	Version 2	Changed	Internal View image has been updated	
04-Feb-2019	Version 1	New	New QuickSpecs.	

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