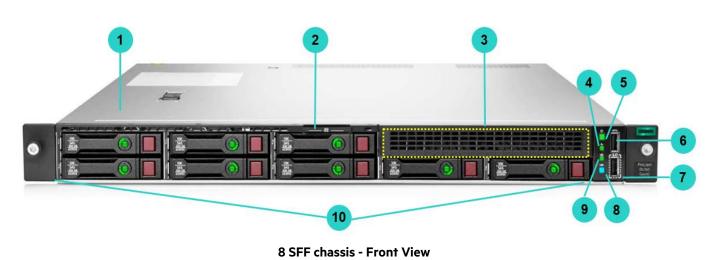
QuickSpecs

Overview

HPE ProLiant DL160 Gen10 Server

The secure 2P 1U HPE ProLiant DL160 Gen10 server delivers the right balance of performance, storage, reliability, manageability and efficiency in a dense and compact chassis, to meet the needs of growing businesses of a diverse set of customers – from SMB to Service Providers running wide range of workloads - at a compelling price point.



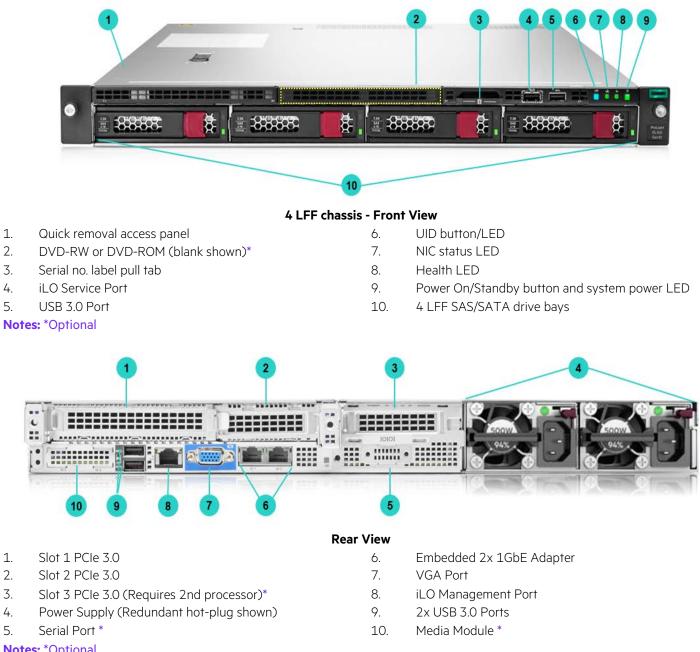
- 1. Quick removal access panel
- 2. Serial no. label pull tab
- 3 Media Bay (blank shown)*
- 4. Health LED
- 5 Power On/Standby button and system power LED

- *Optional a: +2SFF SAS/SATA (total max 10SFF)
- *Optional b: DVD-RW or DVD-ROM

- 6. USB 3.0 port
 - 7. iLO Service Port
 - 8. UID button/LED
 - 9 NIC Status LED
 - 10. Standard 8 SFF SAS/SATA drive bays

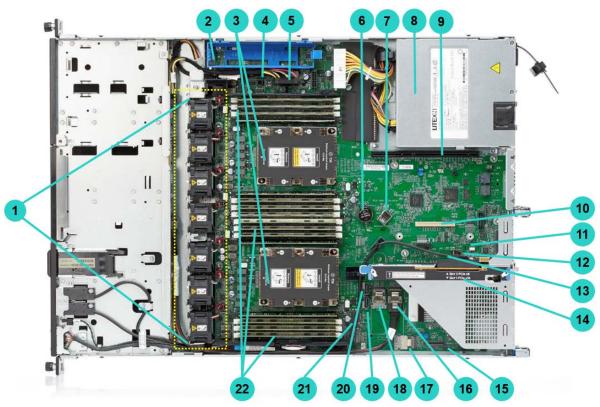


Overview



Notes: *Optional

Overview



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

12.

- Standard single rotor hot swap fans
 CPU 3 standard fans
 CPU s. 6 standard fans (1 rodundant fan
 - 2 CPUs 6 standard fans (1 redundant fan shown)*
- 2. Smart Storage Battery (No battery shown) *
- 3. Up to 2 processors (shown with standard heat sinks)
- 4. 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. TPM 2.0*

13 iLO Service Port Connector

MicroSD card slot

- 14. Standard: 1x16 and 1x8 FlexibleLOM (1X8 FlexibleLOM, 1X8 Low Profile) *
- 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)

Notes: *Optional

Overview

What's New

- 400/800GB, 1.6TB SAS Write Intensive SFF SSDs
- 800GB, 1.6/3.2TB SAS Mixed Use SFF SSDs
- 960GB, 1.92/3.84TB Read Intensive SFF SSDs

Platform Information

Form Factor

• 1U rack

Chassis Types

- 8 SFF with optional support for additional 2 SFF SAS/SATA HDD/SSD
- 4 LFF

System Fans

Single rotor hot plug fans will be included

For 4 LFF and 8 SFF chassis:

- 1 CPU Includes 3 standard fans, 4 fans with addition of redundant fan kit
- 2 CPUs Includes 6 standard fans, 7 fans with addition of redundant fan kit

Notes: Optional redundant fan kit (866438-B21) includes 1 fan for redundancy

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

- 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)
- Field upgrades from 1st generation processors (x1xx) to 2nd generation processors (x2xx) not supported.
- "U" processors (i.e. 6212U) only supported in single socket configurations
- This table covers the public Intel offering only.
- For more information regarding Intel Xeon processors, please see the following <u>http://www.intel.com/xeon</u>.

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

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

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

Intel Xeon Models	CPU Frequency	Cores	L3 Cache	Power	UPI	DDR4	Memory 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

- 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

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

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

Notes:

- 6-Channel DDR4 @ 2400 MT/s.
- 2TB max RAM
- Support for: 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	Cores	L3 Cache	Power	UPI	DDR4	Memory
	Frequency						per socket
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 Frequency	Cores	L3 Cache	Power	UPI	DDR4	Memory per socket
Bronze 3106 Processor	1.7 GHz	8	11.00 MB	85W	2 @ 9.6 GT/s	2133 MT/s	768GB

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

On System Management Chipset

HPE iLO 5 ASIC Notes: Read and learn more in the **iLO QuickSpecs**.

Memory

Туре	HPE DDR4 SmartMemory 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		

Notes:

Mixing of RDIMM and LRDIMM memory is not supported.

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

Memory Protection

Advanced ECC

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

Online Spare

Memory online spare mode detects a rank that is degrading and switches operation to the spare rank. **Notes:** For more information see our **Memory RAS feature technical whitepaper**

Expansion Slots

Primary Riser

Expansion Slots #	Technology	Bus Width	Connector Width	Processor	Slot Form Factor
1	PCle 3.0	x16	x16	CPU1	Full-height, half-length slot
2	PCIe 3.0	x8	x8	CPU1	Low Profile

FlexibleLOM Riser								
Slots #	Technology	Bus Width	Connector Width	Processor	Slot Form Factor			
1	PCle 3.0	X8	X8	CPU1	Flexible LOM			
2	PCle 3.0	X8	X8	CPU1	Half-height, half-length slot			

- Bus Width Indicates the number of physical electrical lanes running to the connector.
- This riser is mandatory for installing FlexibleLOMs.
- FlexibleLOM riser will replace standard CPU1 X16/X8 riser.



Slots #	Technology	Bus Width	Connector Width	Processor	Slot Form Factor
1	PCIe 3.0	X16	X16	CPU2	Half-height, half-length slot

Notes:

- Bus Width Indicates the number of physical electrical lanes running to the connector.
- When populating the second optional riser slot, the second processor must be installed.
- Cannot be installed if type-a modular smart array controller is installed.
- Max 3-PCIe slots are available on the DL160-Gen10.

Software RAID

HPE Smart Array S100i SR Gen10 SW RAID

Notes:

- HPE Smart Array S100i SR Gen10 SW RAID will operate in UEFI mode only. For legacy support an additional controller will be needed.
- HPE Smart Array S100i SR Gen10 SW RAID is off by default and must be enabled.
- 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: https://downloads.linux.hpe.com/SDR/project/lsrrb/

Essential RAID Controller

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

Performance RAID 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

Notes:

- Performance RAID Controllers require the HPE Smart Storage Battery (P01366-B21) which is sold separately.
- 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

Drive	Capacity	Configuration
Hot Plug SFF SAS HDD	24 TB	8+2 X 2.4 TB
Hot Plug LFF SAS HDD	48 TB	4 X 12 TB
Hot Plug SFF SATA HDD	20 TB	8+2 X 2 TB
Hot Plug LFF SATA HDD	48 TB	4 X 12 TB
Hot Plug SFF SAS SSD	38.4 TB	8+2 X 3.84 TB
Hot Plug LFF SAS SSD	15.4 TB	4 X 3.84 TB
Hot Plug SFF SATA SSD	76.8 TB	8+2 X 7.68 TB
Hot Plug LFF SATA SSD	7.68 TB	4 X 1.92 TB

Interfaces

Video	1 rear – VGA Port (standard), 1 Serial Port (optional)
Network Ports	$2 \times 1 \mbox{ GbE}$ ports embedded on board with optional Media Module, FlexibleLOM or stand up card
HPE iLO Remote Management Network Port	1 Gb Dedicated
Front iLO Service Port	1 standard
Micro SD Slot	1 Micro SD Notes: 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

Operating Systems and Virtualization Software Support for ProLiant Servers

- <u>Windows Server 2016</u>**
- 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**

Notes:**Certified

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
 Notes: 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) **Notes:** 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

Power Supply

- HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit **Notes:** Available in 94% efficiency.
- HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit Notes:
 - Available in 94% and 96% efficiency.
 - 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 (AOKO2A). 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.

Graphics

Integrated Video Standard

- Video modes up to 1920 x 1200@60Hz (32 bpp)
- 16MB Video Memory

HPE iLO 5 on system management memory

- 32 MB Flash
- 4 Gbit DDR 3 with ECC protection

HPE Server UEFI/Legacy ROM

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

Notes: 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

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



Embedded Management

HPE Integrated Lights-Out (HPE iLO)

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

UEFI

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

Intelligent Provisioning

Hassle free server and OS provisioning for 1 or more servers with Intelligent Provisioning. Learn more at <u>http://www.hpe.com/servers/intelligentprovisioning</u>.

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>.

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

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 <u>http://www.hpe.com/servers/spp</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 <u>http://www.hpe.com/servers/iLOamplifierpack</u>.

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 **http://www.hpe.com/servers/powershell**.



HPE OneView Standard

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

HPE Systems Insight Manager (HPE SIM)

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

Security

- UEFI Secure Boot and Secure Start support
- Immutable Silicon Root of Trust
- FIPS 140-2 validation
- 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

Warranty

This product is covered by a global limited warranty and supported by Hewlett Packard Enterprise 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.

Notes: 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

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 <u>https://www.hpe.com/servers/infosight</u>

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. https://h22174.www2.hpe.com/SimplifiedConfig/Welcome#



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.

Notes:

– ¹IDC

- 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

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



Service and Support

Other related Services

HPE Server Hardware Installation

Provides for the basic hardware installation of HPE branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner. https://h20195.www2.hpe.com/v2/Getdocument.aspx?docname=5981-9356enw

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. **http://www.hpe.com/ww/learn**

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.

Notes:*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:

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

Powered by 2 nd Generation Intel Xeon Processors			
SKU Number	P19559-xx1	P19561-xx1	P19560-xx1
Model Name	HPE ProLiant DL160 Gen10 3204 1.9GHz 6-core 1P 16GB-R 4LFF 500W PS Server	HPE ProLiant DL160 Gen10 4208 2.1GHz 8-core 1P 16GB-R 4LFF 500W PS Server	HPE ProLiant DL160 Gen10 4208 2.1GHz 8-core 1P 16GB-R 8SFF 500W PS Server
Chassis	4LFF	4LFF	8SFF
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	16 GB RDIMM 1R 2933 MT/s (1x 16 GB) Notes: Runs at 2133 MT/s due to processor limitation	16 GB RDIMM 1R 2933 MT/s (1x 16 GB) Notes: Runs at 2400 MT/s due to processor limitation.	16 GB RDIMM 1R 2933 MT/s (1x 16 GB) Notes: Runs at 2400 MT/s due to processor limitation.
Network Controller	Embedded 2-port 1GbE	Embedded 2-port 1GbE	Embedded 2-port 1GbE
Storage Controller	Embedded 14-port S100i Notes: SATA only.	Embedded 14-port S100i Notes: SATA only.	Embedded 14-port S100i Notes: SATA only.
Hard Drive	None included	None included	None included
Optical Drive	None included	None included	None included
PCIe Slots	2 PCIe: 1 x16 FH / 1 x8 LP	2 PCle: 1 x16 FH / 1 x8 LP	2 PCIe: 1 x16 FH / 1 x8 LP
Power Supply	1x 500W Hot Plug; RPS ready	1x 500W Hot Plug; RPS ready	1x 500W Hot Plug; RPS ready
Fans	3 - Standard	3 - Standard	3 - Standard
Management	HPE ILO 5	HPE ILO 5	HPE ILO 5
Rail Kit	1U Easy Install	1U Easy Install	1U Easy Install
Energy Star	Energy Star 2.1	· · · · · · · · · · · · · · · · · · ·	•
Form Factor	1U Rack		
Warranty	3-year parts, 3-year labor, 3-yea	r onsite support with next busines	ss day response.
Localizations Available	-B21, -291	-B21, -291	-B21, -291
Notes: UEFI is the standard default for all Pre-configured models.			

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

Pre-Configured Models

Powered by 1 st Generation Intel Xeon Processors	
SKU Number	878970-B21
Model Name	HPE ProLiant DL160 Gen10 4110 2.1GHz 8-core 1P 16GB-R S100i 8SFF 1x500W PS Server
Chassis	8SFF
Processor	4110 (2.1GHz/8-core/85W)
Number of Processors	One processor
	With standard heatsink
Memory	16 GB RDIMM 1R 2666 MT/s (1x 16 GB)
	Notes: Runs at 2400 MT/s due to processor limitation.
Network Controller	Embedded 2-port 1GbE
Storage Controller	Embedded 14-port S100i
	Notes: SATA only.
Hard Drive	None included
Optical Drive	None included
PCIe Slots	2 PCle: 1 x16 FH / 1 x8 LP
Power Supply	1x 500W Hot Plug; RPS ready
Fans	3 - Standard
Management	HPE iLO 5
Rail Kit	1U Easy Install
Energy Star	Energy Star 2.1
Form Factor	1U Rack
Warranty	3-year parts, 3-year labor, 3-year onsite support with next business day response.
Localizations Available	-B21

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

Configuration Information

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

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

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

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

CTO Server	HPE ProLiant DL160 Gen10 4 LFF CTO Server	HPE ProLiant DL160 Gen10 8 SFF CTO Server	
SKU Number	878972-B21	878973-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	None Standard. Risers need to be added	
Drive Cage - included	4 LFF SAS/SATA	8 SFF SAS/SATA	
Network Controller	Embedded 2x1GbE with optional, Media Module, HPE FlexibleLOM on riser and optional Standup card		
Fans	1 CPU- 3 Standard Fans 2 CPU- 6 Standard Fans		
Management	HPE iLO with Intelligent Provisioning (standard), iLO Advanced and OneView (optional)		
USB	Front: 1 USB 3.0 + iLO service port Rear: 2 USB 3.0 Internal: 1 USB 3.0		

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

Notes: CTO server models available for select customers

Step 2a: Choose Processor Options

Please select one -L21 processor required below. For second processor, please select the same processor model with -B21 from Core Options - HPE Processors section. For example: first processor, select 878947-L21 then for second processor, select 878947-B21. Notes:

- Mixing of 2 different processor models is not supported.
- For first processor, -L21 will include 3 fans, For second processor, -B21 will add 3 additional fans
- When 2nd Generation Intel Xeon Scalable Processor is slected, then only DDR4-2933 Memory Kit can be selected; When 1st Generation Intel Xeon Scalable Processor is selected, then only DDR4-2666 Memory Kit can be selected

Processor Option Kits (Required Processor)

2nd Generation Intel Xeon- Platinum

Intel Xeon-Platinum 8256 (3.8GHz/4-core/105W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P12005-L21
Intel Xeon-Platinum 8253 (2.2GHz/16-core/125W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P12004-L21
2 nd Generation Intel Xeon-Gold	
Intel Xeon-Gold 6252 (2.1GHz/24-core/150W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11139-L21
Intel Xeon-Gold 6248 (2.5GHz/20-core/150W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11138-L21
Intel Xeon-Gold 6244 (3.6GHz/8-core/150W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11137-L21
Intel Xeon-Gold 6242 (2.8GHz/16-core/150W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11136-L21

Configuration Information

Intel Xeon-Bronze 3106 (1.7GHz/8-core/85W) FIO Processor Kit for HPE ProLiant DL160 Gen10	878945-L21
1 st Generation Intel Xeon- Bronze	
Intel Xeon-Bronze 3204 (1.9GHz/6-core/85W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11124-L21
2 nd Generation Intel Xeon- Bronze	
Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) FIO Processor Kit for HPE ProLiant DL160 Gen10	878947-L21
1 st Generation Intel Xeon-Silver	
Intel Xeon-Silver 4208 (2.1GHz/8-core/85W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11125-L21
Intel Xeon-Silver 4210 (2.2GHz/10-core/85W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11126-L21
Intel Xeon-Silver 4214 (2.2GHz/12-core/85W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11127-L21
Intel Xeon-Silver 4215 (2.5GHz/8-core/85W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11128-L21
Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11129-L21
2 nd Generation Intel Xeon- Silver	
Intel Xeon-Gold 5215 (2.5GHz/10-core/85W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11130-L21
Intel Xeon-Gold 5217 (3.0GHz/8-core/115W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11131-L21
Intel Xeon-Gold 5218 (2.3GHz/16-core/125W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11132-L21
Intel Xeon-Gold 5220 (2.2GHz/18-core/125W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11133-L21
Intel Xeon-Gold 5222 (3.8GHz/4-core/105W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11142-L21
Notes: Only supported in single socket configurations	
Intel Xeon-Gold 6209U (2.1GHz/20-core/125W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11140-L21
Notes: Only supported in single socket configurations	
Intel Xeon-Gold 6210U (2.5GHz/20-core/150W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11141-L21
Intel Xeon-Gold 6226 (2.7GHz/12-core/125W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11143-L21
Intel Xeon-Gold 6230 (2.1GHz/20-core/125W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11134-L21
Intel Xeon-Gold 6234 (3.3GHz/8-core/130W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11144-L21
Intel Xeon-Gold 6238 (2.1GHz/22-core/140W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11145-L21
Intel Xeon-Gold 6240 (2.6GHz/18-core/150W) FIO Processor Kit for HPE ProLiant DL160 Gen10	P11135-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: <u>https://www.hpe.com/docs/memory-speed-table</u> 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>.

Notes:

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

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

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

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



Configuration Information

Desistered DIMMs (DDIMMs) for 1st Constantion Intel Year Scalable Series	
Registered DIMMs (RDIMMs) for 1st 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	012040-021
	D0000/ D01
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. Notes:	
 Mixing of 2 different power supplies is NOT supported. 	
 HPE DL160/180 Gen10 Redundant Power Supply Enablement Kit (866442-B21) required with selection 	ction of power supply.
HPE Flex Slot Power Supplies	
HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865408-B21
HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit	865438-B21
HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865414-B21
HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit	865434-B21
HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit	865428-B21
HPE DL160/180 Gen10 Redundant Power Supply Enablement Kit	866442-B21
Notes: This enablement kit is required with the selection of a Flex Slot power supply	
Step 3: Choose Additional (FIO) Factory Integratable Options	
Step 3: Choose Additional (FIO) Factory Integratable Options Each of the following may be selected if desired at time of factory integration	
	758959-B22
Each of the following may be selected if desired at time of factory integration	758959-B22 784308-B21
Each of the following may be selected if desired at time of factory integration HPE Legacy FIO Mode Setting	
Each of the following may be selected if desired at time of factory integration HPE Legacy FIO Mode Setting HPE FIO Enable Smart Array SW RAID	784308-B21
Each of the following may be selected if desired at time of factory integration HPE Legacy FIO Mode Setting HPE FIO Enable Smart Array SW RAID HPE Gen10 TPM 1.2 FIO Setting	784308-B21
Each of the following may be selected if desired at time of factory integration HPE Legacy FIO Mode Setting HPE FIO Enable Smart Array SW RAID HPE Gen10 TPM 1.2 FIO Setting HPE Unique Options	784308-B21 872108-B21
Each of the following may be selected if desired at time of factory integration HPE Legacy FIO Mode Setting HPE FIO Enable Smart Array SW RAID HPE Gen10 TPM 1.2 FIO Setting HPE Unique Options HPE DL160 Gen10 FIO Quick Release Ear Kit	784308-B21 872108-B21
Each of the following may be selected if desired at time of factory integration HPE Legacy FIO Mode Setting HPE FIO Enable Smart Array SW RAID HPE Gen10 TPM 1.2 FIO Setting HPE Unique Options HPE DL160 Gen10 FIO Quick Release Ear Kit Notes: This option kit is required for adding Bezel.	784308-B21 872108-B21 872987-B21
Each of the following may be selected if desired at time of factory integration HPE Legacy FIO Mode Setting HPE FIO Enable Smart Array SW RAID HPE Gen10 TPM 1.2 FIO Setting HPE Unique Options HPE DL160 Gen10 FIO Quick Release Ear Kit Notes: This option kit is required for adding Bezel. HPE 1U Gen10 4LFF Embedded SATA Controller FIO Cable Kit	784308-B21 872108-B21 872987-B21
Each of the following may be selected if desired at time of factory integration HPE Legacy FIO Mode Setting HPE FIO Enable Smart Array SW RAID HPE Gen10 TPM 1.2 FIO Setting HPE Unique Options HPE DL160 Gen10 FIO Quick Release Ear Kit Notes: This option kit is required for adding Bezel. HPE 1U Gen10 4LFF Embedded SATA Controller FIO Cable Kit Notes: This option is used to connect the 4LFF chassis to Smart Array S100i controller	784308-B21 872108-B21 872987-B21 866444-B21
Each of the following may be selected if desired at time of factory integration HPE Legacy FIO Mode Setting HPE FIO Enable Smart Array SW RAID HPE Gen10 TPM 1.2 FIO Setting HPE Unique Options HPE DL160 Gen10 FIO Quick Release Ear Kit Notes: This option kit is required for adding Bezel. HPE 1U Gen10 4LFF Embedded SATA Controller FIO Cable Kit Notes: This option is used to connect the 4LFF chassis to Smart Array S100i controller HPE DL160/120 Gen10 8SFF Smart Array S100i SATA FIO Cable Kit	784308-B21 872108-B21 872987-B21 866444-B21
Each of the following may be selected if desired at time of factory integration HPE Legacy FIO Mode Setting HPE FIO Enable Smart Array SW RAID HPE Gen10 TPM 1.2 FIO Setting HPE Unique Options HPE DL160 Gen10 FIO Quick Release Ear Kit Notes: This option kit is required for adding Bezel. HPE 1U Gen10 4LFF Embedded SATA Controller FIO Cable Kit Notes: This option is used to connect the 4LFF chassis to Smart Array S100i controller HPE DL160/120 Gen10 8SFF Smart Array S100i SATA FIO Cable Kit Notes: This option is used to connect the 8SFF chassis to Smart Array S100i controller	784308-B21 872108-B21 872987-B21 866444-B21 866446-B21
Each of the following may be selected if desired at time of factory integration HPE Legacy FIO Mode Setting HPE FIO Enable Smart Array SW RAID HPE Gen10 TPM 1.2 FIO Setting HPE Unique Options HPE DL160 Gen10 FIO Quick Release Ear Kit Notes: This option kit is required for adding Bezel. HPE 1U Gen10 4LFF Embedded SATA Controller FIO Cable Kit Notes: This option is used to connect the 4LFF chassis to Smart Array S100i controller HPE DL160/120 Gen10 8SFF Smart Array S100i SATA FIO Cable Kit Notes: This option is used to connect the 8SFF chassis to Smart Array S100i controller HPE 1U Gen10 2SFF SAS/SATA FIO Enablement Kit without Cables	784308-B21 872108-B21 872987-B21 866444-B21 866446-B21
Each of the following may be selected if desired at time of factory integration HPE Legacy FIO Mode Setting HPE FIO Enable Smart Array SW RAID HPE Gen10 TPM 1.2 FIO Setting HPE Unique Options HPE DL160 Gen10 FIO Quick Release Ear Kit Notes: This option kit is required for adding Bezel. HPE 1U Gen10 4LFF Embedded SATA Controller FIO Cable Kit Notes: This option is used to connect the 4LFF chassis to Smart Array S100i controller HPE DL160/120 Gen10 8SFF Smart Array S100i SATA FIO Cable Kit Notes: This option is used to connect the 8SFF chassis to Smart Array S100i controller HPE 1U Gen10 2SFF SAS/SATA FIO Enablement Kit without Cables Notes:	784308-B21 872108-B21 872987-B21 866444-B21 866446-B21

 This kit does not contain any cables. You would need to choose either the SATA (881181-B21) or the SAS (881183-B21) Cable kit along with this

HPE DL160/120 Gen10 2SFF Smart Array S100i SATA FIO Cable Kit881181-B21Notes: This option kit is required to connect the 2SFF FIO Enablement Kit (881179-B21) to the Smart Array
S100i Controller881183-B21HPE DL160/120 Gen10 2SFF Smart Array SAS FIO Cable Kit881183-B21Notes: This option kit is required to connect the 2SFF FIO Enablement Kit (881179-B21) to Flexible Smart881183-B21

Array Controllers or the PCIe Smart Array Controllers

Step 4: Choose Additional Options for Factory Integration from Core and Additional Option 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 Notes: 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 DL160 Gen10 CPU1 x16/x8 PCIe Riser Kit	866432-B21
HPE DL160 Gen10 FlexibleLOM/NVMe Riser Kit	875748-B21
Notes: - Supported on CPU1	
 Supported on CFOT This riser is required to use FlexibleLOM adapters 	
HPE DL160 Gen10 CPU2 x16 PCIe Riser Kit	866436-B21
Notes: Requires second processor to be installed	
Cable Kits	
HPE DL360 Gen9 Rear Serial Port and Enablement Kit	764646-B21
Cooling Options	
HPE DL160/120 Gen10 Redundant Fan Kit	866438-B21
Notes: This kit contains one additional fan.	
Media Bay Options	
HPE DL160/120 Gen10 2SFF SAS/SATA Enablement Kit	866458-B21
Notes:	
 This option kit will enable the additional 2SFF drive in an 8SFF Chassis 	
 This is a Field Upgradable option only This kit contains all processory cobles required to connect to the drives and controllers 	
 This kit contains all necessary cables required to connect to the drives and controllers. 	
Optical Drive Options	
HPE 9.5mm SATA DVD-ROM Optical Drive	726536-B21
Notes: The ODD Enablement kit (873961-B21) is required for this option on a SFF model.	726537-B21
HPE 9.5mm SATA DVD-RW Optical Drive Notes: The ODD Enablement kit (873961-B21) is required for this option on a SFF model.	/2053/-DZI
HPE 1U Gen10 8SFF Optical Disk Drive Enablement Kit	873961-B21
HPE Mobile USB DVD-RW Optical Drive	701498-B21
Notes: This option is only supported on USB 3.0 ports.	
Security	
HPE Trusted Platform Module 2.0 Gen10 Option	864279-B21
HPE 1U Gen10 Bezel Kit	867998-B21
HPE Bezel Lock Kit	875519-B21
HPE 1U Gen10 Chassis Intrusion Detection Kit	866473-B21
Notes: This provides a physical connection from the chassis board and hood and detects any physical	
intrucion into the chassic providing acquirity during the entire cumply chain process of chinging receiving	

intrusion into the chassis, providing security during the entire supply chain process of shipping, receiving, distribution, and operation.

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.

Notes:

- Field upgrades from 1st generation processors (x1xx) to 2nd generation processors (x2xx) not supported.
- Mixing of 2 different processor models is not supported.
- For first processor, -L21 will include 3 fans, For second processor, -B21 will add 3 additional fans
- 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

Description SKU 2nd Generation Intel Xeon- Platinum Intel Xeon-Platinum 8256 (3.8GHz/4-core/105W) Processor Kit for HPE ProLiant DL160 Gen10. P12005-B21 Intel Xeon-Platinum 8253 (2.2GHz/16-core/125W) Processor Kit for HPE ProLiant DL160 Gen10. P12004-B21 2nd Generation Intel Xeon-Gold Intel Xeon-Gold 6252 (2.1GHz/24-core/150W) Processor Kit for HPE ProLiant DL160 Gen10. P11139-B21 Intel Xeon-Gold 6248 (2.5GHz/20-core/150W) Processor Kit for HPE ProLiant DL160 Gen10. P11138-B21 Intel Xeon-Gold 6244 (3.6GHz/8-core/150W) Processor Kit for HPE ProLiant DL160 Gen10. P11137-B21 Intel Xeon-Gold 6242 (2.8GHz/16-core/150W) Processor Kit for HPE ProLiant DL160 Gen10. P11136-B21 Intel Xeon-Gold 6240 (2.6GHz/18-core/150W) Processor Kit for HPE ProLiant DL160 Gen10. P11135-B21 Intel Xeon-Gold 6238 (2.1GHz/22-core/140W) Processor Kit for HPE ProLiant DL160 Gen10. P11145-B21 Intel Xeon-Gold 6234 (3.3GHz/8-core/130W) Processor Kit for HPE ProLiant DL160 Gen10. P11144-B21 Intel Xeon-Gold 6230 (2.1GHz/20-core/125W) Processor Kit for HPE ProLiant DL160 Gen10. P11134-B21 Intel Xeon-Gold 6226 (2.7GHz/12-core/125W) Processor Kit for HPE ProLiant DL160 Gen10 P11143-B21 Intel Xeon-Gold 5222 (3.8GHz/4-core/105W) Processor Kit for HPE ProLiant DL160 Gen10. P11142-B21 Intel Xeon-Gold 5220 (2.2GHz/18-core/125W) Processor Kit for HPE ProLiant DL160 Gen10. P11133-B21 Intel Xeon-Gold 5218 (2.3GHz/16-core/125W) Processor Kit for HPE ProLiant DL160 Gen10 P11132-B21 Intel Xeon-Gold 5217 (3.0GHz/8-core/115W) Processor Kit for HPE ProLiant DL160 Gen10. P11131-B21 Intel Xeon-Gold 5215 (2.5GHz/10-core/85W) Processor Kit for HPE ProLiant DL160 Gen10. P11130-B21 2nd Generation Intel Xeon-Silver Intel Xeon-Silver 4216 (2.1GHz/16-core/100W) Processor Kit for HPE ProLiant DL160 Gen10. P11129-B21 Intel Xeon-Silver 4215 (2.5GHz/8-core/85W) Processor Kit for HPE ProLiant DL160 Gen10. P11128-B21 Intel Xeon-Silver 4214 (2.2GHz/12-core/85W) Processor Kit for HPE ProLiant DL160 Gen10. P11127-B21 Intel Xeon-Silver 4210 (2.2GHz/10-core/85W) Processor Kit for HPE ProLiant DL160 Gen10. P11126-B21 Intel Xeon-Silver 4208 (2.1GHz/8-core/85W) Processor Kit for HPE ProLiant DL160 Gen10. P11125-B21 1st Generation Intel Xeon-Silver Intel Xeon-Silver 4110 (2.1GHz/8-core/85W) Processor Kit for HPE ProLiant DL160 Gen10 878947-B21 2nd Generation Intel Xeon- Bronze Intel Xeon-Bronze 3204 (1.9GHz/6-core/85W) Processor Kit for HPE ProLiant DL160 Gen10. P11124-B21 1st Generation Intel Xeon- Bronze Intel Xeon-Bronze 3106 (1.7GHz/8-core/85W) Processor Kit for HPE ProLiant DL160 Gen10 878945-B21

HPE Memory

For new Gen10 memory population rule whitepaper and optimal memory performance guidelines, please go to: <u>https://www.hpe.com/docs/memory-population-rules</u>

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>

Notes:

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

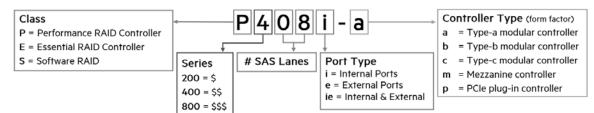
HPE DDR4 Memory

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
Notes: The maximum memory speed is a function of the memory type, memory configuration, and processor model.	

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 <u>HPE Smart Array Gen10</u> Controllers Data Sheet.



HPE Flexible Smart Array Controllers

HPE Smart Array P408i-a SR Gen10 (8 Internal Lanes/2GB Cache) 12G SAS Modular LH Controller	869081-B21
HPE Smart Array E208i-a SR Gen10 (8 Internal Lanes/No Cache) 12G SAS Modular LH Controller	869079-B21

Notes:

- Must also select either 4LFF or 8SFF Smart Array SAS Cable Kit (866452-B21; 866448-B21), depending on chassis
- All performance RAID controllers are supported by the HPE Smart Storage Battery (P01366-B21), which supports multiple devices and is sold separately.
- Does not occupy a PCIe expansion slot.

HPE Smart Array Controllers

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

HPE Cable Options	
HPE 1U Gen10 4LFF Smart Array SAS Cable Kit	866452-B21
HPE 1U Gen10 8SFF Smart Array SAS Cable Kit	866448-B21
Notes: Required when any Perforamance RAID Controller or Flexible Smart Array –a (i.e. P408i-a) controller	
is selected	
HPE 96W Smart Storage Lithium-ion Battery with 145mm Cable Kit	P01366-B21
Notes: Supports up to 6 P-class Smart Array controllers	
HPE Smart Storage Hybrid Capacitor with 145mm Cable Kit	P02377-B21
Notes: Supports up to 3 P-class Smart Array controllers	
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
Notes: SmartCache is offered on HPE Smart Array performance RAID controllers	
Notes: SmartCache is offered on HPE Smart Array performance RAID controllers HPE Drives	
HPE Drives	881457-B21
HPE Drives Enterprise - 12G SAS - SFF Drives	881457-B21 872481-B21
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	
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 HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	872481-B21
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 HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872481-B21 872479-B21
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 HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872481-B21 872479-B21 872477-B21
HPE DrivesEnterprise - 12G SAS - SFF DrivesHPE 2.4TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDDHPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDDHPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDDHPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDDHPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDDHPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872481-B21 872479-B21 872477-B21 872475-B21
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 HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 900GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872481-B21 872479-B21 872477-B21 872475-B21 870759-B21
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 HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872481-B21 872479-B21 872477-B21 872475-B21 870759-B21 870757-B21
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 HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 900GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872481-B21 872479-B21 872477-B21 872475-B21 870759-B21 870757-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

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HPE 384TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Why SDP21143-821HPE 384TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Why Value SAS Digitally Signed Firmware SSDP10444-821HPE 192TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Why SDP19905-821HPE 192TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Why SDP19905-821HPE 192TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Why Digitally Signed Firmware SSDP064519-821HPE 192TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Why Value SAS Digitally Signed Firmware SSDP064519-821HPE 90GE SAS 12G Read Intensive SFF (2.5in) SC 3yr Why SDP19903-821HPE 90GE SAS 12G Read Intensive SFF (2.5in) SC 3yr Why SDP19903-821HPE 90GE SAS 12G Read Intensive SFF (2.5in) SC 3yr Why SDP064517-821HPE 90GE SAS 12G Read Intensive SFF (2.5in) SC 3yr Why Value SAS Digitally Signed Firmware SSDP064517-821HPE 90GE SAS 12G Read Intensive SFF (2.5in) SC 3yr Why Value SAS Digitally Signed Firmware SSDP10400-821HPE 32TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Why SDP1133-812HPE 32TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Why SDP1133-812HPE 14TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Why SDP1133-812HPE 14TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Why SDP1133-812HPE 14TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Why SDP1133-812HPE 14TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Why SDP1133-812HPE 14TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Why SDP1213-813HPE 14TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Why SDP1213-821HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Why Digitally Signed Firmware SDP00454-821 <th></th> <th></th>		
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HPE 800GB SAS 12G Mixed Use LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSDP04531-B21Read Intensive - SATA - SFF - Solid State DrivesP18430-B21HPE 7.68TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi VendorP18430-B21HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSDP18428-B21HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSDP19943-B21HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSDP05946-B21HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSDP18426-B21HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSDP18426-B21HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSDP18426-B21		
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HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSDP19943-B21HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSDP05946-B21HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSDP18426-B21HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSDP19941-B21		
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	THE I.42 ID SATA OU REAU INTENSIVE SPP (2.511) SC SYLWTY DIGITALLY SIGNED FILMWARE SSD	L02420-R5T

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 SSD	P19939-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
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD	P19937-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P05928-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P04560-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Multi Vendor SSD	P18420-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD	P19935-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	P05924-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875503-B21
Very Read Optimized- SATA – SFF – Solid State Drives	
HPE 3.84TB SATA 6G Very Read Optimized SFF (2.5in) SC 3yr Wty SSD	P23489-B21
HPE 1.92TB SATA 6G Very Read Optimized SFF (2.5in) SC 3yr Wty SSD	P23487-B21
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 3.84TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty SSD	P19953-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 SSD	P19951-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 SSD	P19949-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 SSD	P19947-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 SSD	P19976-B21
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 SSD	P19974-B21
HPE 480GB SATA 6G Read Intensive LFF (3.5in) LPC 3yr Wty Digitally Signed Firmware SSD	P04499-B21
Very Read Optimized- SATA – LFF – Solid State Drives	
HPE 7.68TB SATA 6G Very Read Optimized LFF (3.5in) LPC 3yr Wty SSD	P23495-B21
HPE 3.84TB SATA 6G Very Read Optimized LFF (3.5in) LPC 3yr Wty SSD	P23491-B21
Mixed Use - SATA - LFF - Solid State Drives	1 23471 021
HIXED 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
HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) LPC 3yr Wty SSD	P19984-B21
HPE 960GB SATA 6G Mixed Use LFF (3.5in) LPC 3yr Wty SSD	P19980-B21

Internal Dual M.2 Kit	
HPE Universal SATA HHHL 3yr Wty M.2 Kit	878783-B21
Notes: 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 SSD	P19892-B21
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 SSD	P19890-B21
HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD	875498-B21
HPE 240GB SATA 6G Read Intensive M.2 2280 3yr Wty SSD	P19888-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 DL160/120 Gen10 M.2 SATA Cable Kit	866456-B21
Notes: 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 Networking	
25 Gigabit Ethernet adapters	
HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter	817753-B21
HPE Ethernet 10/25Gb 2-port 631SFP28 Adapter	817718-B21
HPE Ethernet 10/25Gb 2-port 621SFP28 Adapter	867328-B21
10 Gigabit Ethernet adapters	
HPE Ethernet 10Gb 2-port 562T Adapter	817738-B21
HPE Ethernet 10Gb 2-port 562SFP+ Adapter	727055-B21
Notes: Can be installed only in Slot 2 and Slot 3	
HPE Ethernet 10Gb 2-port 535T Adapter	813661-B21
HPE Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
HPE Ethernet 10Gb 2-port 530T Adapter	656596-B21
HPE Ethernet 10Gb 2-port 521T Adapter	867707-B21
1 Gigabit Ethernet adapters	
HPE Ethernet 1Gb 4-port 366T Adapter	811546-B21
Notes: Can be installed only in Slot 1 and Slot 3	
HPE Ethernet 1Gb 4-port 331T Adapter	647594-B21
Notes: Can be installed only in Slot 1 and Slot 3	
HPE Ethernet 1Gb 2-port 361T Adapter	652497-B21
HPE Ethernet 1Gb 2-port 332T Adapter	615732-B21
FlexibleLOM adapters	
HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter	817749-B21
HPE Ethernet 10/25Gb 2-port 631FLR-SFP28 Adapter	817709-B21
HPE Ethernet 10/25Gb 2-port 622FLR-SFP28 Converged Network Adapter	867334-B21
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	727054-B21
HPE Ethernet 10Gb 2-port 562FLR-T Adapter	817745-B21

HPE FlexFabric 10Gb 4-port 536FLR-T Adapter	764302-B21
HPE Ethernet 10Gb 2-port 535FLR-T Adapter	817721-B21
HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
HPE Ethernet 1Gb 4-port 331FLR Adapter	629135-B22
HPE Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
Notes:	
 The HPE ProLiant DL160 Gen10 chassis ships with 2x 1 Gb embedded. 	
 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. 	
 FlexibleLOM Riser Kit (875748-B21) is required to install these adapters 	
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
Notes:	
 The DL160 Gen10 chassis ships with 2x 1 Gb embedded. 	
 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 	
– These adapters should be installed in the Media Module connector slot on the system board only.	
 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 InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	825110-B21
HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	825111-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCIe Gen3 with Intel Omni-Path Architecture Adapter	829335-B21
HPE Power Supplies HPE Flexible Slot (Flex Slot) Power Supplies share a common electrical and physical design that allows for hot pluc	r tool-loss
installation into HPE ProLiant Gen10 Performance Servers. Flex Slot power supplies are certified for high-efficiency	•

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

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

HPE Flex Slot Power Supplies

HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865408-B21
HPE 800W Flex Slot Titanium Hot Plug Low Halogen Power Supply Kit	865438-B21
HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit	865414-B21
HPE 800W Flex Slot -48VDC Hot Plug Low Halogen Power Supply Kit	865434-B21
HPE 800W Flex Slot Universal Hot Plug Low Halogen Power Supply Kit	865428-B21
HPE DL160/180 Gen10 Redundant Power Supply Enablement Kit	866442-B21
Notes: This enablement kit is required with the selection of a Flex Slot power supply	

Additional Options

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

Embedded Management

HPE iLO Advanced

HPE iLO Advanced 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
Notes:	

- Replaces iLO default randomized password by an HPE defined common password. HPE highly
 recommends changing this password immediately after the initial onboarding process.
- 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 Advanced (with HPE iLO Advanced)

HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
HPE OneView Advanced (without HPE iLO Advanced)	
HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU	P8B24A
HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server LTU	P8B25A
HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU	P8B26AAE
HPE OneView Physical Media Kit LTU	E5Y37A

Notes:

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

- Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.
- Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at:

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

HPE 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

Additional Options

QLogic Fibre Channel HBAs

HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	P9D93A
HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	P9D94A
HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	P9M75A
HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	P9M76A
Converged Network Adapter	
HPE StoreFabric CN1100R Dual Port Converged Network Adapter	QW990A
HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter	N3U52A
HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter	N3U51A
Rail Kits	
HPE 1U Small Form Factor Easy Install Rail Kit	734807-B21
HPE 1U Cable Management Arm for Rail Kit	734811-B21
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
Notes:	
 Additional options available to add as "ad-hoc" in OCA 	
 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
Notes: The maximum memory speed is a function of the memory type, memory configuration, and proc	essor model.

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 Rack Options

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

HPE Power Distribution Units (PDUs)

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

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

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

Additional Options

HPE Uninterruptible Power Systems (UPS)

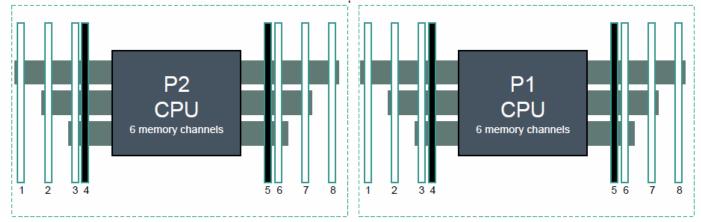
To learn more, please visit the **HPE Uninterruptible Power Systems (UPS) web page.**

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

Please see the HPE Line Interactive Single Phase UPS QuickSpecs for information on these products and their specifications.

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

Notes:*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**.

Notes: 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>

System Unit

Dimensions

(Height X Width X Depth)

- 4.29 x 43.46 x 61.49 cm
- 1.69 x 17.11 x 24.21 in

Weight (approximate)

• SFF Minimum

8 SFF chassis with 1x SFF HDD, 1 X Memory DIMM, 3 Fans, 1 Processor with heatsink, 1 power supply , 24.19lb

10.97kg

SFF Maximum

8SFF chassis with 8 SFF HDD, 1 X Memory DIMM, 6 Fans, 2 Processors with heatsink, 2 power supplies 30.69 lb 13.92 kg

LFF Minimum

4 LFF chassis with 1X LFF Hard Drive, 1X Memory DIMM, 3 Fans, 1 Processor with heatsink, 1 power supply 25.69 lb

11.65 kg

LFF Maximum

4 LFF chassis with 4X LFF Hard Drive, 1X Memory DIMM, 6 Fans, 2 Processors with heatsink, 2 power supplies 34.69 lb

15.74kg

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

Maximum Peak Power

For 500W Power Supply: 500W (at 100 to 127 VAC), 500W (at 200 to 240 VAC), 500W (at 240 VAC) input for China only

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).

HPE ProLiant DL160 Gen10 Server

Technical Specifications

System Inlet Temperature

• StandardOperating 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:http://www.hpe.com/servers/ashrae

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

Non-operating

-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).

Relative Humidity (non-condensing)

• Operating

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

Non-operating

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

Acoustic Noise

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

Configuration SKU	LFF Config	SFF Config	
Idle			
LWAd	4.5 B	4.5 B	
LpAm	28.1 dBA	27.8 dBA	
Operating			
LWAd 5.1 B		5.1 B	
LpAm	34.0 dBA	33.0 dBA	

Notes:

- Acoustics levels will vary depending on system configuration. Values are based on below configurations and are for reference only.
- Additional options may result in increased sound levels.
- 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.

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 latest information on **HPE Smart Array Gen10 Controllers for HPE ProLiant DL, ML and Apollo Servers** please refer to their QuickSpecs. (E208i-a,E208i-p,E208e-p,P408i-a,P408i-p,P408e-p,P816i-a) https://h20195.www2.hpe.com/v2/getdocument.aspx?docname=a00047736enw

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

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

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

Summary of Changes

Date	Version History	Action	Description of Change
01-Jun-2020	Version 11	Changed	Overview, Configuration Information, Core Options and Additional Options sections were updated
06-Apr-2020	Version 10	Changed	Service and Support and Core Options sections were updated.
03-Feb-2020	Version 9	Changed	Overview, Standard Features, Pre-Configured Models, Configuration Information and Core Options sections were updated.
02-Dec-2019	Version 8	Changed	Overview, Standard Features, Core Options, Additional Options and Technical Specifications sections were updated.
04-Nov-2019	Version 7	Changed	Image corrected in Overview section.
07-Oct-2019	Version 6	Changed	All sections were updated.
12-Aug-2019	Version 5	Changed	Overview, Standard Features, Additional Options and Memory sections were updated.
05-Aug-2019	Version 4	Changed	Overview, Standard Features, Optional Features, Additional Options and Memory sections were updated.
03-Jun-2019	Version 3	Changed	Overview, Additional Options and Pre-configured Models sections were updated.
15-Apr-2019	Version 2	Changed	Overview, Standard Features, Optional Features and Pre-configured Models sections were updated.
04-Feb-2019	Version 1	New	New QuickSpecs

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

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