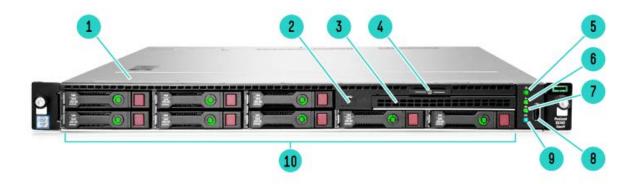
QuickSpecs

Overview

HPE ProLiant DL160 Generation9 (Gen9)

The HPE ProLiant DL160 Gen9 is the next generation 2P 1U value server replacing DL360e Gen8. It delivers the right balance of performance, storage, reliability, manageability and efficiency in a dense and compact chassis, to meet the needs of a diverse set of customers- from SMBs and service providers with a wide range of workloads - from general purpose IT to the New Style of IT, such as, Big Data and Cloud.



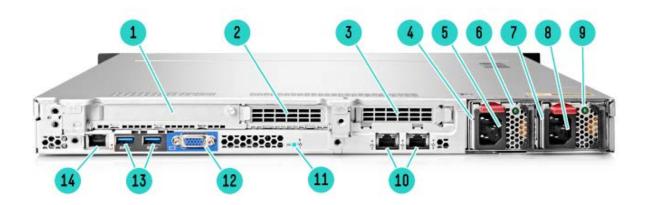
Front View

- 1. Access Panel
- 3. Optical disk drive bay
- 5. Power On/Standby button and system power LED
- 7. NIC status LED
- 9. UID button/LED

- 2. Optional USB3.0 (optional with 8SFF only)
- 4. Serial label pull tab
- 6. Health LED
- 8. USB 2.0 connector
- 10. 8SFF drive cage



Overview

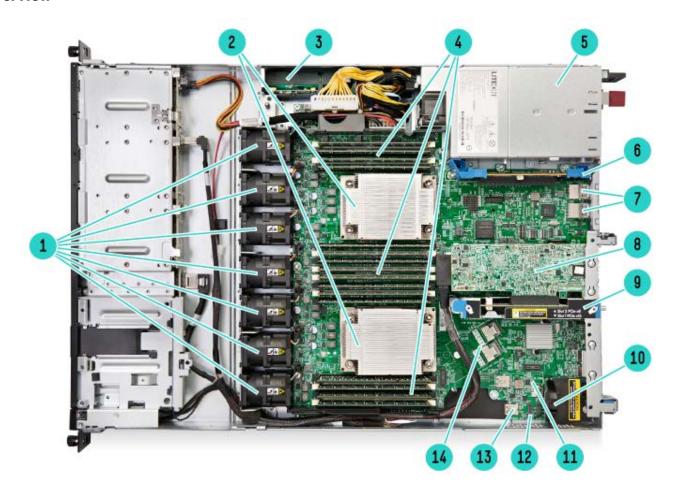


Rear View

- 1. PCle3 slot 1 (primary, associated with processor 1)
- 3. PCle3 slot 3 (secondary, associated with processor 2) 4. Power supply 1 bay
- 5. Power supply 1 Power Connector (Optional)
- 7. Power supply 2 bay
- 9. Power Supply 2 LED
- 11. Unit ID LED
- 13. USB3.0 connectors

- 2. PCle3 slot 2 (primary, associated with processor 1)
- 6. Power supply 1 LED (Optional)
- 8. Power supply 2 power connector
- 10. Embedded 2x1GbE network adapter
- 12. Video Connector
- 14. Dedicated iLO connector (optional)

Overview



Internal View

- 1. Hot Swappable fans (up to 7)
- 3. HPE Smart Storage Battery (optional)
- Entry level power supply bay (1x900W shown)
 NOTE: RPS (with one module) shown in the picture above.
- 7. Embedded 2x1GbE network adapter
- 9. Primary PCle riser (2 PCle3 slots associated with CPU1)
- 11. MicroSD card slot
- 13. Internal USB 3.0 connector

- 2. Processor heat sinks (processors with HPE Smart Sockets placed below heat sinks)
- 4. DDR4 DIMM slots (up to 16). Shown fully populated in 16 Slots (8 per Processor)
- 6. Connector for secondary PCIe riser (associated with CPU2)
- 8. HPE Smart Array P440 controller (optional)
- 10. Dedicated iLO module connector (optional)
- 12. Internal SATA ports (one for ODD and another one reserved)
- 14. Embedded B140i SATA controller (2x SATA ports for up to eight drives)

What's New

• Support for ClearOS – an easy to use OS with an application marketplace

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

Processor

Up to two of the following depending on model

| Model | CPU frequency | Cores | L3 Cache | Power | QPI | DDR4 Hz |
|------------|------------------|-------|----------|-------|---------|---------|
| E5-2660v3 | 2.6GHz | 10 | 25MB | 105W | 9.6GT/s | 2133 |
| E5-2650v3 | 2.3GHz | 10 | 25MB | 105W | 9.6GT/s | 2133 |
| E5-2650Lv3 | 1.8GHz | 12 | 30MB | 65W | 9.6GT/s | 2133 |
| E5-2640v3 | 2.6GHz | 8 | 20MB | 90W | 8.0GT/s | 1866 |
| E5-2630v3 | 2.4GHz | 8 | 20MB | 85W | 8.0GT/s | 1866 |
| E5-2630Lv3 | 1.8GHz | 8 | 20MB | 55W | 8.0GT/s | 1866 |
| E5-2623v3 | 3.0GHz | 4 | 10MB | 105W | 8.0GT/s | 1866 |
| E5-2620v3 | 2.4GHz | 6 | 15MB | 85W | 8.0GT/s | 1866 |
| E5-2609v3 | 1.9GHz | 6 | 15MB | 85W | 6.4GT/s | 1600 |
| E5-2603v3 | 1.6GHz | 6 | 15MB | 85W | 6.4GT/s | 1600 |
| E5-2695v4 | 2.1GHz | 18 | 45MB | 120W | 9.6GT/s | 2400 |
| E5-2683v4 | 2.1GHz | 16 | 40MB | 120W | 9.6GT/s | 2400 |
| E5-2680v4 | 2.4GHz | 14 | 35MB | 120W | 9.6GT/s | 2400 |
| E5-2660v4 | 2.0GHz | 14 | 35MB | 105W | 9.6GT/s | 2400 |
| E5-2650v4 | 2.2GHz | 12 | 30MB | 105W | 9.6GT/s | 2400 |
| E5-2650Lv4 | 1.7GHz | 14 | 35MB | 65W | 9.6GT/s | 2400 |
| E5-2640v4 | 2.4GHz | 10 | 25MB | 90W | 8.0GT/s | 2133 |
| E5-2630v4 | 2.2GHz | 10 | 25MB | 85W | 8.0GT/s | 2133 |
| E5-2630Lv4 | 1.8GHz | 10 | 25MB | 55W | 8.0GT/s | 2133 |
| E5-2623v4 | 2.6GHz | 4 | 10MB | 85W | 8.0GT/s | 2133 |
| E5-2620v4 | 2.1GHz | 8 | 20MB | 85W | 8.0GT/s | 2133 |
| E5-2609v4 | 1.7GHz | 8 | 20MB | 85W | 6.4GT/s | 1866 |
| E5-2603v4 | 1.7GHz | 6 | 15MB | 85W | 6.4GT/s | 1866 |

Chipset

Intel® C610 Series Chipset

One of the following depending on model

Intel® E5-2600v3 Processor Family Intel® E5-2600v4 Processor Family

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

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

On System HPE iLO (Firmware HPE iLO4 2.0 or later) 2GB NAND Management Chipset NOTE: Read and learn more in the iLO QuickSpecs.

Memory

Type:

One of the following depending on model

HPE SmartMemory

DDR4 Registered (RDIMM) or Load Reduced (LRDIMM)

DIMM Slots Available 16 (8 DIMM slots per processor, 4 channels per processor, 2 DIMMs per

channel)

Maximum Capacity 1TB (16 x 64GB LRDIMM @2400MHz)

| | (LRDIMM) Maximum Capacity (RDIMM) | 512GB (16 x 32GB RDIMM @2400MHz) |
|---|---|---|
| Memory Protection One of the following depending on model | Advanced ECC Online Spare | Advanced ECC uses single device data correction to detect and correct single and all multibit error that occurs within a single DRAM chip. Memory online spare mode detects a rank that is degrading and switches operation to the spare rank. |
| | Mirroring mode | Memory mirroring inter-socket stores a copy of memory with dynamic failover in case of failure. Once a DIMM in a mirrored set is detected as failed, the mirror failover uses its mirrored DIMM. |

Network Controller HPE Ethernet 1Gb 2-Port 361i Adapter

| Expansion | Slots |
|-----------|-------|
|-----------|-------|

| CPU1 PCle riser slots | Expansion Slots # | Technology | Bus Width | Connector Width | Form Factor | Notes |
|-------------------------------|---------------------|---------------------|---------------|--------------------|-----------------------------------|---|
| | 1 | PCIe 3.0 | x16 | x16 | Full-height, half- length slot | Processor 1 |
| | 2 | PCle 3.0 | x8 | x8 | Low profile slot | Processor 1 |
| | NOTE: Bus Wid | dth data indicates | the number | of physical elec | trical lanes running to | o the connector. |
| CPU 1 FlexibleLOM riser slots | Expansion Slots # | Technology | Bus Width | Connector Width | Form Factor | Notes |
| | 1 | Flexible LOM | x8 | x8 | Flexible LOM | Processor 1 (can only be used for FlexibleLOMs) |
| | 2 | PCIe 3.0 | x8 | x8 | Low profile slot | Processor 1 |
| | NOTE: This rise | er is mandatory fo | or installing | FlexibleLOMs. | | |
| CPU2 riser PCle slots | Expansion Slots # | Technology | Bus Width | Connector Width | Form Factor | Notes |
| | 3 | PCIe 3.0 | x16 | x16 | Low profile slot | Processor 2 |
| | NOTE: When p | opulating slots or | n CPU2 riser | , second process | or must be installed. | |
| | NOTE: Only on | e of the CPU1 PC | le risers can | be selected in a | ny given configuratio | on. |
| | NOTE: One of | the CPU 1 risers is | s mandatory | for all configura | tions. | |
| | | | | | | |

| Storage Controller |
|----------------------|
| One of the following |
| depending on model |

Base Models

Performance Models

Entry Models HPE Dynamic Smart Array B140i Controller

HPE H240 FIO Smart Host Bus Adapter HPE H240 FIO Smart Host Bus Adapter HPE Smart Array P440/4G Controller

NOTE: B140i provides support for up to 8 SATA drives, data transmission speeds up to 6Gb/s and supports RAID 0, 1 & 5.

NOTE: H240 provides support for up to 8 SAS/SATA drives, data transmission speeds up to 12Gb/s and supports RAID 0, 1 & 5.

NOTE: P440 provides support for up to 8 SAS/SATA drives, data transmission speeds up to 12Gb/s.

Internal Storage Devices

One of the following depending on model

Optical Drive
Hard Drives
Hard Drive Bays

Optional: DVD-ROM, DVD-RW

None ship standard

4 LFF drive bays total with Optical bay 8 SFF drive bays total with Optical Bay

NOTE: HPE ProLiant DL160 Gen9 server offers both SFF and LFF versions.

The Optical Drive bay is available with both models. **NOTE:** Drive cage changes are not supported.

NOTE: All Pre-configured Models come populated with some hard drive blanks installed. Should the customer need additional hard drive blanks, they can order more using either HPE SFF Gen9 Hard Drive Blank Kit (666987-B21) or HPE LFF Gen9 Hard Drive Blank Kit (666986-B21). These part numbers for single HDD blanks below are also provided should the customer require replacement HDD blanks for their server.

Maximum Internal Storage

One of the following depending on model

| | CAPACITY | CONFIGURATION |
|-----------------------|----------|---------------|
| Hot Plug SFF SAS | 16.0TB | 8 x 2TB |
| Hot Plug SFF SATA | 16.0TB | 8 x 2TB |
| Hot Plug LFF SAS | 40.0TB | 4 x 10TB |
| Hot Plug LFF SATA | 40.0TB | 4 x 10TB |
| Hot Plug SFF SAS SSD | 30.72TB | 8 x 3.84TB |
| Hot Plug SFF SATA SSD | 30.72TB | 8 x 3.84TB |
| Hot Plug LFF SATA SSD | 15.36TB | 4 x 3.84TB |
| Non Hot Plug LFF SATA | 16TB | 4 x 4TB |

Power Supply

One of the following depending on model

HPE 550W FIO Power Supply

HPE 900W Redundant Power Supply

Looking for high-efficiency power solutions at an entry-level price for your ProLiant Gen9 Essential Server? HPE Entry-Level Power Supplies offer an optimized set of features with options for both redundant and non-redundant power configurations.

The HPE 550W FIO Power Supply offers Silver-certified 80 Plus power efficiency (up to 89%) with an optimized set of features for non-redundant power configurations.

The HPE 900W AC 240VDC Power Input Module with Power Backplane can be configured to support power redundancy in ProLiant servers that offer only a single power supply bay, providing additional protection against power loss. With an 80 Plus Gold power efficiency rating (up to 92%), this power option helps to reduce operating expenses while protecting against trapped power capacity in the data center. Hot-plug AC power input modules allow for better serviceability with fast and easy deployment and replacement.

System Fans

One of the following depending on model

| | Non-redundant | Redundant |
|----------|---------------|-----------|
| 1P model | 3 fans | 4 fans |
| | Non-redundant | Redundant |
| 2P model | 6 fans | 7 fans |

NOTE: Redundant fan option kit (725587-B21) can be bought separately if redundancy is required with 1P or 2P configurations.

NOTE: Additional fans required with 2P configurations are included in "-B21" processor option kits.

Interfaces Video 1 (Vaux Support)

LOM Network Ports 2x1GbE network ports
HPE iLO Remote Management 1 GbE (Optional)

Network Port

USB 4 USB ports (standard); 1 (optional)

Front: 1xUSB 2.0 std; 1xUSB3.0 optional (with 8SFF models only)

Rear: 2xUSB 3.0 Internal: 1xUSB 3.0

Micro SD Slot 1 Micro SD

NOTE: The 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.

Operating Systems and Virtualization Software Support for ProLiant Servers

Microsoft Windows Server

Red Hat Enterprise Linux (RHEL)
SUSE Linux Enterprise Server (SLES)

VMware ClearOS

NOTE: ClearOS allows you to build a fully functional server that is just right for you at no upfront cost. It is available via CTO preload, Intelligent Provisioning or via download. For more information on ClearOS, please visit http://www.hpe.com/servers/clearos.

NOTE: For more information on the Hewlett Packard Enterprise Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server, please visit our Support Matrix at: http://www.hpe.com/info/ossupport and our driver download

page.

Upgradeability

Upgradeable to 2 processors (36 Cores)

One of the following depending on model

NOTE: Processor upgrade from E5-2600v3 to E5-2600v4 is supported for processors up to 105W.

Up to 16 DIMM slots available

NOTE: To take advantage of DIMMs 9-16, second processor must be installed. FlexibleLOM slot for 1GbE or 10GbE or QDR/FDR InfiniBand Networking Options

Optional 2nd CPU riser slot (x16, low profile)

NOTE: 2nd CPU must be installed if this riser is configured.

Up to 8 SFF Hard Drive Bays; or 4 LFF Hard Drive Bays

Redundant Power Supply

Redundant Fan

Optical Drive Bay (8 SFF/4 LFF)

Industry Standard Compliance ACPI 2.0b Compliant PCIe 3.0 Compliant

PXE Support
WOL Support

Microsoft® Logo certifications

USB 3.0 Support ASHRAE A3

NOTE: Supports A3 extended ambient temperature.

NOTE: Refer to technical specifications section for more details.

Graphics

Integrated Matrox G200eH2 video standard

- 1280 x 1024 (32 bpp)
- 1920 x 1200 (16 bpp)

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 Gen9 platform defaults to UEFI and can be factory or field configured for Legacy BIOS Boot Mode.

NOTE: The UEFI System Utilities function 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
- 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 RESTful API for iLO 4
- PXE boot support for IPv6 networks
- Boot support for option cards that only support a UEFI option ROM
- Network Stack configurations

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

NOTE: UEFI FIO Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory for your HPE ProLiant Gen9 Server.

Form Factor

One of the following depending on model 1U Rack form factor 8SFF and 4LFF version:

1.7" (4.3cm) Height x 17.1" (43.5cm) Width x 23.9" (60.8cm) Length

Embedded Management **HPE Integrated Lights-Out** (HPE iLO)

Monitor your servers for ongoing management, service alerting, reporting and remote

management with HPE iLO. Learn more at http://www.hpe.com/info/ilo.

UEFI Configure and boot your servers securely with industry standard Unified Extensible

Firmware Interface (UEFI). Learn more at http://www.hpe.com/servers/uefi.

RESTful API RESTful API for iLO 4 is Redfish 1.0 conformance for simplified server management

such as configuration and maintenance tasks based on modern industry

standards. Learn more at http://www.hpe.com/info/restfulapi.

Intelligent **Provisioning** Hassle free server and OS provisioning for 1 or few servers with Intelligent Provisioning.

Learn more at http://www.hpe.com/servers/intelligentprovisioning.

Embedded

The Hewlett Packard Enterprise embedded remote support, when used with Insight Remote Support Online direct connect or HPE Insight Remote Support, allows HPE ProLiant servers to transmit hardware events directly to Hewlett Packard Enterprise or a Hewlett Packard

Enterprise Authorized Partner for automated phone home support. Learn more at

http://www.hpe.com/info/insightonline/explore.

Server utilities

Smart Update

Optimize firmware and driver updates with Smart Update solutions including Smart

Update Manager (SUM) and Service Pack for ProLiant (SPP). Learn more at

http://www.hpe.com/servers/smartupdatemanager.

HPE Systems (HPE SIM)

HPE SIM allows you to monitor the health of your HPE ProLiant Servers and HPE Insight Manager Integrity Servers, and also provides you with basic support for non-HPE servers. HPE SIM also integrates with Smart Update Manager to provide quick and seamless

firmware updates. Learn more at http://www.hpe.com/servers/hpsim.

Scripting Tool Kit and Windows **PowerShell**

Provision 1 to many servers using your own scripts to discover and deploy them with

Scripting Tool Kit (STK) for Windows and Linux or Scripting Tools for Windows PowerShell. Learn more at http://www.hpe.com/servers/proliant/stk or

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

RESTful Interface Tool RESTful Interface tool is a scripting tool to provision using RESTful API for iLO 4 to

discover and deploy servers at scale. Learn more at

http://www.hpe.com/info/resttool

Application

HPE iLO Mobile Enables the ability to access, deploy, and manage your server anytime from anywhere from select smartphones and mobile devices. For additional information please visit:

http://www.hpe.com/info/ilo/mobileapp.

HPE Insight Online HPE Insight Online, available at no additional cost as part of your Hewlett Packard Enterprise warranty or contractual support agreement with Hewlett Packard Enterprise, is a personalized dashboard for simplified tracking of IT operations and support

is a personalized dashboard for simplified tracking of IT operations and support information from anywhere, anytime. Learn more at

http://www.hpe.com/info/insightonline/explore.

Security Power-on password

Serial interface control Administrator's password

TPM 2.0 TPM 2.0

NOTE: TPM 1.2 is not upgradable to TPM 2.0.

UEFI

Warranty

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

NOTE: Server Warranty includes 3-Year Parts, 1-Year Labor, 1-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

Embedded Management

iLO Essentials

HPE iLO Essentials is the preferred license for small and medium business that offers full remote server management capabilities for small and medium business via the Integrated Remote Console (IRC), virtual media, and e-mail based alerts. Learn more about HPE iLO Essentials at http://www.hpe.com/servers/iLO/essentials.

iLO Scale-Out

HPE iLO Scale-Out is the preferred license built for web hosting, cloud service providers, and high performance computing data centers, managing massive scale out environments for the DL 100 and 10 series servers, not available for ML servers. This license offers sophisticated scripting tools that provides remote access through Text Console via SSH, Dynamic power capping, Email-based Alerting and proactive notifications. For more information, visit http://www.hpe.com/servers/iLO/scale-out.

iLO Advanced

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

Server Management HPE Insight

HPE Insight Control

HPE Insight Control, lets you deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. For more information, see http://www.hpe.com/info/insightcontrol.

Rack and Power Infrastructure

HPE Rack and Power Infrastructure products and services create highly efficient and intelligent solutions for existing or new IT data centers. HPE Rack and Power infrastructure solutions – rack infrastructure, power protection and management, performance optimized data centers (PODs) – are the foundation you are looking for to help secure your long-term IT success. These products are designed to help you react to changes in the industry. They deliver efficient, easy-to-use capabilities to manage, monitor, deploy and provision infrastructure from entry to enterprise. As an industry leader, Hewlett Packard Enterprise is uniquely positioned to address the key concerns of power, cooling, cable management and system access. Learn more at **HPE Rack and Power Infrastructure**.

High Performance Clusters

HPE Cluster Platforms are specifically engineered, factory-integrated large-scale ProLiant clusters optimized for High Performance Computing, with a choice of servers, networks and software. Operating system options include specially priced offerings for Red Hat Enterprise Linux and SUSE Linux Enterprise Server, as well as Microsoft Windows HPEC Server. A Cluster Platform Configurator simplifies ordering. http://www.hp.com/go/clusters.

HPC Interconnects

NOTE: High Performance Computing (HPC) interconnect technologies are available for this server under the HPE Cluster Platform product portfolio. These high-speed interconnects are fully supported by Hewlett Packard Enterprise when they are part of these configure to order clusters. Solutions can be defined with a lot of flexibility with the help of configuration tools. Please visit the following URL to configure HPEC Clusters with InfiniBand Interconnects:

http://www.hp.com/techservers/clusters/ucp/index.html

Storage Software

Whether you need to solve a specific data protection, archiving, or storage command and control challenge, or deliver on strategic consolidation, compliance, or continuity initiatives, look no further than Hewlett Packard Enterprise storage software. Our storage software helps you reduce costs, simplify storage infrastructure, protect vital assets and respond faster to business opportunities.

Optional Features

Storage software that gets the job done:

• Data Protection and Recovery Software

Whether you're a large enterprise or a smaller business, Hewlett Packard Enterprise data protection and recovery software will cost-effectively protect you against disaster and ensure business continuity.

• Data Archive and Migration Software

Hewlett Packard Enterprise storage software enables you to comply with data retention and retrieval requirements, improve application performance, and reduce costs by efficiently migrating infrequently accessed or less valuable data to lower cost storage.

Storage Resource Management Software (SRM)

Hewlett Packard Enterprise storage resource management software reduces operational costs and provides the command and control foundation you need to efficiently manage and visualize your physical and virtual environments.

Data Replication Software

Hewlett Packard Enterprise offers array-based and host-based replication software for use in disaster recovery, testing, application development and reporting.

• Storage Device Management Software

Maximize your investment in Hewlett Packard Enterprise storage and networking with software that enables hardware-specific configuration, performance tuning and connectivity management.

• HPE StoreVirtual VSA

With HPE StoreVirtual VSA you can use the power of virtualization to create a virtual array within your host server. Manage it as a single pool of shared storage capacity, and scale it to match your evolving needs. HPE ProLiant Gen9 servers include a 3-year limited license for HPE StoreVirtual VSA software with 1TB of capacity at no extra cost. Simply select to install HPE StoreVirtual VSA software during server setup within Intelligent Provisioning. More information, instructional videos, and free console management software are available at http://www.hp.com/go/vsa1TB.

NOTE: For more information about Storage Software including QuickSpecs, please see:

http://www.hp.com/go/storage/software.

ClearOS

HPE and ClearCenter will help you lower the cost of building on-premise solutions without sacrificing security and ease of use. HPE ProLiant servers with ClearOS give you a simple, secure, and affordable operating system with an intuitive web based graphical user interface that provides a cloud-like experience on- premise, and an Application Marketplace with over 100 apps and growing. Whether you're starting out or scaling, you decide what applications you need and pay as you grow.

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. http://ocs.ext.hpe.com/.

Service and Support

HPE Support Services

HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to Hewlett Packard Enterprise to help prevent problems and solve issues faster. HPE Support Services enable you to choose the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement to the support for need for your IT and business.

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 Hewlett Packard Enterprise support.

Recommended Support

Basic: HPE Foundation Care NBD, three-year Support Service

HPE Foundation Care Next Business Day connects you to Hewlett Packard Enterprise during business hours for assistance on resolving issues – This service features need based next business day hardware onsite response and software call back within two hours. In addition, Collaborative software support and provides troubleshooting assistance on industry leading software running on your HPE server. Simplify your support experience and make Hewlett Packard Enterprise your first call to help resolve hardware or software problems.

https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en

Standard: HPE Foundation Care 24x7, three-year Support Service

HPE Foundation Care 24x7 gives you access to Hewlett Packard Enterprise 24 hours a day, seven days a week for assistance on resolving issues. This service includes need based Hardware onsite response within four hours. In addition, collaborative software support is included in this service that provides troubleshooting assistance on industry leading software running on your HPE server. Simplify your support experience and make Hewlett Packard Enterprise your first call to help resolve hardware or software problems.

https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en

Optimized: 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 Hewlett Packard Enterprise, 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.

Parts and Materials

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

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

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

Related Services

HPE Server Hardware Installation

Provides for the basic hardware installation of Hewlett Packard Enterprise branded servers, storage devices

Service and Support

and networking options to assist you in bringing your new hardware into operation in a timely and professional manner.

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

HPE Installation and Startup Service

Provides for the installation and startup of Hewlett Packard Enterprise technology including BladeSystems, C-Class enclosure, HPE ProLiant c-Class and Integrity server blades, storage blades, SAN switch blades, HPE Virtual Connect modules (Ethernet and Fibre Channel), Ethernet network interconnects, and InfiniBand, as well as the installation of one supported operating system type (Windows® or Linux).

HPE Technology Services Support Credits

Offer 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.

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Keep your IT staff trained making sure they have the right skills to deliver on your business outcomes. Book on a class today and learn how to get the most from your technology investment.

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

HPE Support Center The HPE Support Center is a personalized online support portal with access to information, tools and experts to support Hewlett Packard Enterprise 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 Hewlett Packard Enterprise 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 Hewlett Packard Enterprise warranty, HPE Support Service or Hewlett Packard Enterprise contractual support agreement.

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

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

Pre-configured Models

For the Standard Features shipped in the "Factory Integrated Models", please see the "Configuration Information - Factory Integrated Models" section.

- 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.

NOTE: All Pre-configured Models come populated with some hard drive blanks installed. Should the customer need additional hard drive blanks, they can order more using either HPE SFF Hard Drive Blank Kit (666987-B21) or HPE LFF Hard Drive Blank Kit (666986-B21).

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

CAUTION: Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.

| | Entry M | odels | Base Models | |
|-------------------------|--|--|--|--|
| [SKU Number] | 830570-B21 | 830571-B21 | 830572-B21 | |
| Model Name | HPE DL160 Gen9 E5- 2603v4 1P 8GB-R B140i 4LFF 550W PS Entry Server | HPE DL160 Gen9 E5- 2603v4 1P 8GB-R H240 8SFF 550W PS Entry Server | HPE DL160 Gen9 E5-2620v4 1P 16GB-R H240 8SFF 550W PS Base Server | |
| Processor | Intel® Xeon® E5-2603v4 | | Intel® Xeon® E5-2620v4 | |
| Number of Processors | | (| One | |
| Memory | 8GB (1x8GB Registered DIMMs, 2400 MHz) NOTE: Due to processor limitation, these DDR4 DIMMs will operate at 1866 MHz in this model | | 16GB (1x16GB Registered DIMMs, 2400 MHz) NOTE: Due to processor limitation, these DDR4 DIMMs will operate at 2133 MHz in this model. | |
| Network Controller | HF | PE Embedded Dual Port 3 | 361i Adapter Network Interface | |
| Storage Controller | HPE Dynamic Smart Array B140i | HPE H240 FIO Smart Host Bus Adapter | HPE H240 FIO Smart Host Bus Adapter | |
| Hard Drive | | None sh | ip standard | |
| Internal Storage | 4 LFF HDD Bays | 8 SFF HDD Bays | 8 SFF HDD Bays | |
| Optical Drive Bay | 1; (Optional: DVD-ROM, DVD-RW) | | | |
| Optical Drive | Opti | onal Slim Optical Bay (SA | TA DVD-RW/ROM Optical Drive) | |
| PCI-Express Slots | 2 Standard (1-FH/HL, 1-LP) PCIe 3.0 | | | |
| Power Supply | (1) HPE 550W FIO Power Supply | | | |
| Fans | 3 hot swap fans, non-redundant 4 hot swap fans, redundant | | | |
| Management | iLO Management (standard), Intelligent Provisioning (standard), iLO Essentials (optional), iLO Scale-out (optional only for DL), iLO Advanced (optional) | | | |
| Form Factor | Rack (1U), HPE Easy Install Rails | | | |
| Warranty | Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response. | | | |

Smart Buy Models

| | | E5-2600v4 Se | ries Smart Buys | |
|-------------------------|---|--|--|--|
| [SKU Number] | 830574-S01 | 860102-S01 | 867445-S01 | 830577-S01 |
| Model Name | HP ProLiant DL160 Gen9 E5-2609v4 1.7GHz 8-core 8GB-R B140i 4LFF 550W PS US Server/S-Buy | HPE ProLiant DL160 Gen9 E5-2609v4 SFF US Svr/S-B | HPE ProLiant DL160 Gen9 E5-2609v4 SFF US Svr/S-Buy | HP ProLiant DL160 Gen9 E5-2620v4 2.1GHz 8-core 8GB-R P440/2GB 8SFF 900W PS US Server/S-Buy |
| Processor | | Intel® Xeon® E5-2609v4 | | Intel® Xeon® E5-2620v4 |
| Number of Processors | | С |)ne | |
| Memory | | BGB Registered DIMMs, 24 will operate at 1866MHz v | | 8GB (1x8GB Registered DIMMs, 2400 MHz) NOTE: The DIMMs will operate at 2133MHz with this processor. |
| Network Controller | HPE Embedded Dual Port 361i Adapter Network Interface | | | race |
| Storage Controller | HPE Dynamic Smart Array B140i | HPE H240 | Smart HBA | HPE Flexible Smart Array P440/2G + Smart Storage battery |
| Hard Drive | | None shi | p standard | |
| Internal Storage | 4 LFF HDD Bays | | 8 SFF HDD Bays | |
| Optical Drive Bay | | None Included; Option | nal: DVD-ROM, DVD-RW | |
| PCI-Express Slots | | 2 Standard (1-FH | /HL, 1-LP) PCle 3.0 | |
| Power Supply | One (1) HPE 550W FIO Power Supply One (1) HPE 900W Redundant Capable Power Supply Kit | | | • |
| Fans | | 3 hot swap fans | s, non-redundant | |
| Management | Standard: iLO Management Optional: iLO Essentials, iLO Advanced, Insight Control | | | |
| Form Factor | Rack (1U), HPE Easy Install Rails | | | |
| Warranty | 3-Year Parts, 1 | L-Year Labor, 1-Year Onsite | e support with next busines | ss day response. |

Smart Buy Models

| | E5-2600v4 Series Smart Buys | | | | |
|-----------------------------|--|--|--|--|--|
| [SKU Number] | 830574-S01 | 860102-S01 | 867445-S01 | 830577-S01 | |
| Model Name | HP ProLiant DL160 Gen9 E5-2609v4 1.7GHz 8-core 8GB-R B140i 4LFF 550W PS US Server/S-Buy | HPE ProLiant DL160 Gen9 E5- 2609v4 SFF US Svr/S-B | HPE ProLiant DL160 Gen9 E5- 2609v4 SFF US Svr/S-Buy | HP ProLiant DL160 Gen9 E5- 2620v4 2.1GHz 8-core 8GB-R P440/2GB 8SFF 900W PS US Server/S-Buy | |
| Processor | l. | ntel® Xeon® E5-2609v | 4 | Intel® Xeon® E5-2620v4 | |
| Number of Processors | | | One | | |
| Memory | 8GB (1x8GB Registered DIMMs, 2400 MHz) NOTE: The DIMMs will operate at 1866MHz with this processor. | | 8GB (1x8GB Registered DIMMs, 2400 MHz) NOTE: The DIMMs will operate at 2133MHz with this processor. | | |
| Network Controller | HPE Embedded Dual Port 361i Adapter Network Interface | | | | |
| Storage Controller | HPE Dynamic Smart Array B140i | HPE H240 | Smart HBA | HPE Flexible Smart Array P440/2G + Smart Storage battery | |
| Hard Drive | None ship standard | | | | |
| Internal Storage | 4 LFF HDD Bays 8 SFF HDD Bays | | | Bays | |
| Optical Drive Bay | None Included; Optional: DVD-ROM, DVD-RW | | | | |
| PCI-Express Slots | | 2 Standar | d (1-FH/HL, 1-LP) PCI | e 3.0 | |
| Power Supply | One (1) HPE 550W FIO Power Supply One (1) HPE 900W Re | | | Redundant Capable Power Supply Kit | |
| Fans | 3 hot swap fans, non-redundant | | | | |
| Management | Standard: iLO Management Optional: iLO Essentials, iLO Advanced, Insight Control | | | | |
| Form Factor | Rack (1U), HPE Easy Install Rails | | | | |
| Warranty | 3-Year Pa | ts, 1-Year Labor, 1-Ye | ar Onsite support with r | next business day response. | |

This section lists some of the steps required to configure a Factory Integrated Model. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of an HPE approved configurator. Contact your local sales representative for information on configurable product offerings and requirements.

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

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

| CTO Server | HP ProLiant DL160 Gen9 Hot Plug 8SFF Configure-to-order Server | HP ProLiant DL160 Gen9 Hot Plug 4LFF Configure-to-order Server | HP ProLiant DL160 Gen9 Non- hot Plug 4LFF Configure-to- order Server | |
|--------------------|--|--|--|--|
| SKU Number | 754520-B21 | 754521-B21 | 754522-B21 | |
| Processor | 2 | (optional) x HPE Smart Socket Guid | de | |
| DIMM Slots | 16 DIMM slots for RDIMM, LRDIMM DDR4 Memory | | | |
| Storage Controller | HPE Dynamic Smart Array B140i | | | |
| PCle | | Optional (None ship standard) | | |
| Drive Cage | 8SFF Hot Plug | 4LFF Hot Plug | 4LFF Non Hot Plug | |
| Network Controller | HPE Embedded Dual Port 361i Adapter Network Interface | | | |
| Fans | 3 hot swap fans, non-redundant | | | |
| Management | iLO Management (standard), Intelligent Provisioning (standard) | | | |
| USB | 1 front, 1 internal, 2 rear | | | |
| Ears | | HPE Thumbscrew Ears | | |

Step 2: Choose Required Options (only one of the following from each list unless otherwise noted)

| HPF Processors | F5-2600v4 series Processors |
|----------------|-----------------------------|

| H | HPE DL160 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) FIO Processor Kit | 801287-L21 |
|----------|---|------------|
| \vdash | HPE DL160 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) FIO Processor Kit | 801288-L21 |
| H | HPE DL160 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) FIO Processor Kit | 801289-L21 |
| | HPE DL160 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W) FIO Processor (it | 801290-L21 |
| | HPE DL160 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) FIO Processor (it | 801291-L21 |
| H | HPE DL160 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-core/10MB/85W) FIO Processor Kit | 801301-L21 |
| | HPE DL160 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W) FIO Processor (it | 801283-L21 |
| | HPE DL160 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) FIO Processor (iit | 801284-L21 |
| | HPE DL160 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) FIO Processor (it | 801285-L21 |
| | HPE DL160 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) FIO Processor (iit | 825494-L21 |
| | HPE DL160 Gen9 Intel® Xeon® E5-2695v4 (2.1GHz/18-core/45MB/120W) FIO Processor (it | 825498-L21 |

HPE DL160 Gen9 Intel® Xeon® E5-2683v4 (2.1GHz/16-core/40MB/120W) FIO Processor 825500-L21

HPE DL160 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) FIO Processor 801286-L21 Kit

NOTE: If two processors are desired, select one xxxxxx-L21 and one corresponding xxxxxx-B21

NOTE: Up to two processors supported. Mixing different processor models is not supported.

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

NOTE: When v4 Processor is selected, then only PC4-2400T Memory Kit can be selected.

NOTE: For the Intel® C600 Chipset E5-2600 Series, the letter preceding the model number indicates the Product Line (E3, E5, E7); 2600x v#, 2 = number of CPUs in a Node, 6 is socket/segment designation, 00 = Processor SKU, x = L for low power SKUs and v# (not yet designated) = version number.

HPE Memory

NOTE: Select one or more memory kits from below.

NOTE: LRDIMM, RDIMM are all distinct memory technologies and cannot be mixed within a server. The majority of ProLiant Gen9 servers support LRDIMM and RDIMM

NOTE: HPE memory from previous generation servers are not qualified or warranted with this HPE ProLiant Server. HPE SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen9

NOTE: If only one processor is installed, only half of the total DIMM slots are available. When populating with two processors all DIMM slots are available

NOTE: Kits described as LP include Low Power DIMMs. For more information on ProLiant Energy Efficient Features, see: http://www.hpe.com/go/proliant-energy-efficient

NOTE: Depending on the memory configuration and processor model, the memory speed may run at 2400MHz, 2133MHz, 1866MHz, 1600MHz or 1333MHz. Please see Memory Population Table or the Online Memory Configuration Tool at: http://www.hpe.com/go/ddr4config

Registered DIMMs (RDIMMs) for E5-2600v4 Series

| HP 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory Kit | 805347-B21 |
|--|------------|
| HP 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit | 805349-B21 |
| HP 16GB (1x16GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit | 836220-B21 |
| HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit | 805351-B21 |
| | |

Load Reduced DIMMs (RDIMMs) for E5-2600v4 Series

| HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit | 805353-B21 |
|--|------------|
| HP 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit | 805358-B21 |

HPE Standard Memory for E5-2600v4 Series

| HPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Standard | 851353-B21 |
|---|------------|
| Memory Kit | |

NOTE: HPE Standard Memory DIMMs have no SmartMemory features.

HPE I/O Expansion HP DL160 Gen9 CPU1 Riser FIO Kit

Options

NOTE: This riser enables two PCle3 slots.

HPE Power Supplies NOTE: Prior to selecting a power supply option, it is highly recommended that you review your server configuration in the HPE Power Advisor tool to determine the right size power supply for your server configuration. The HPE Power Advisor is located at: http://www.hpe.com/go/hppoweradvisor

> NOTE: Mixing of power supplies in the same server is not supported. All power supplies must be of the same input voltage, output rating, and efficiency rating. If non-matching power supplies are installed, you may receive an error message and/or experience operational issues with your server.

HPE Entry-Level Power Supplies

HP 550W FIO Power Supply Kit

730941-B21

725585-B21

HPE 900W AC 240VDC Power Input FIO Module

NOTE: HP Server RPS FIO Backplane Kit (828735-B21) is required for this power supply.

NOTE: Up to two of these option kits can be installed in one system.

HPE 900W AC 240VDC Power Backplane FIO Kit

NOTE: One is required when one or two HPE 900W AC 240VDC Power Input FIO Modules (828734-B21) are ordered.

Step 3: Choose Additional Factory Integratable Options (only one of the following from each list unless otherwise noted)

DL160 Gen9 4LFF CTO Server (754521-B21) is selected in Step 1 above.

HPE Storage Controllers

NOTE: One of the cable options below is required to be selected depending on combinations of CTO Server and Storage Controller. If not using the embedded B140i controller, must select one of the following HP Storage Controllers and Cable Options noted below.

NOTE: HP ProLiant DL160 Gen9 NHP 4LFF CTO Server (754522-B21) includes SATA Cables required to support the embedded B140i controller and no cable option is required.

HPE Smart Array Controllers

HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller

NOTE: Includes the HP Smart Storage Battery

NOTE: If HP ProLiant DL160 Gen9 8SFF CTO Server (754520-B21) or HP ProLiant

DL160 Gen9 4LFF CTO Server (754521-B21) is selected in Step 1 above.

HPE Smart Host Bus Adapters

HP H240 12Gb 2-ports Int FIO Smart Host Bus Adapter

NOTE: Includes the HP Smart Storage Battery

NOTE: If HP ProLiant DL160 Gen9 8SFF CTO Server (754520-B21) or HP ProLiant

HPE Cable Options

HP DL160 Gen9 4LFF Smart Array B140i SATA Cable FIO Kit

NOTE: Required if using the embedded B140i as the primary controller with the HP
ProLiant DL160 Gen9 4LFF CTO Server (754521-B21).

HP DL160 Gen9 8SFF Smart Array B140i SATA Cable FIO Kit

NOTE: Required if using the embedded B140i as the primary controller with the HP
ProLiant DL160 Gen9 8SFF CTO Server (754520-B21).

HP DL160 Gen9 4LFF Smart Array P440 SAS Cable Kit

NOTE: Required with the HP ProLiant DL160 Gen9 4LFF CTO Server (754521-B21) if
Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller (761872-B21) is selected.

HP DL160 Gen9 8SFF Smart Array P440 SAS Cable Kit

774619-B21

NOTE: Required with the HP ProLiant DL160 Gen9 8SFF CTO Server (754520-B21) if Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller (761872-B21) is selected.

HP DL160 Gen9 4LFF Smart Array H240 SAS Cable Kit

NOTE: Required with the HP ProLiant DL160 Gen9 4LFF CTO Server (754521-B21) if
HP H240 12Gb 1-port Int FIO Smart HBA (761873-B21) is selected.

HP DL160 Gen9 8SFF Smart Array H240 SAS Cable Kit

774621-B21

NOTE: Required with the HP ProLiant DL160 Gen9 8SFF CTO Server (754520-B21) if

HP H240 12Gb 1-port Int FIO Smart HBA (761873-B21) is selected.

BIOS Mode

HP Legacy FIO Mode Setting 758959-B22 **NOTE:** If B140i is the primary controller, then this option cannot be selected.

NOTE: Selecting this option changes the default UEFI BIOS setting into Legacy BIOS setting

Controller State

HP Mfg FIO Enable HBA Mode Setting **NOTE:** Can only be selected with H240 FIO Smart Host Bus Adapter

792962-B21

NOTE: If H240 is the primary controller then RAID is not allowed with this selection.

HP AHCI-Enable FIO Setting 801845-B21

NOTE: If B140i is the primary controller then RAID is not allowed with this selection.

HPE Security HP DL160 Gen9 Quick Release Ear FIO Kit 774609-B21

NOTE: Required for Security Bezel option

HPE Insight HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server C6N36A

Software FIO License

HPE Convereged HPE OneView (with HPE iLO Advanced)

Infrastructure HP OneView for ProLiant DL Server incl 3yr 24x7 Supp FIO Bundle Physical 1 Svr Lic E5Y43A

Management HPE OneView (without HPE iLO Advanced)

Software

HP OneView w/o iLO including 3yr 24x7 Support FIO 1 Server LTU

P8B31A

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

CAUTION: Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.

801288-R21

Core Options

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

HPF DI 160 Gen9 Intel® Xeon® F5-2609v4 (1 7GHz/8-core/20MR/85W) Processor Kit

| HPE | Unique |
|------|--------|
| Opti | ons |

| HP DL180 Gen9 Dedicated iLO Management Port Kit | 725581-B21 |
|---|------------|
| HPE DL160 Gen9 Low Profile PCIe CPU2 Riser Kit NOTE: CPU 2 is required if this riser is to be installed, enables one PCIe3 slot. | 725586-B21 |
| HP DL160 Gen9 Front USB 3.0 Enablement Kit NOTE: This kit is required to enable a front USB3.0 port on SFF models only. | 725594-B21 |
| HP DL160 Gen9 FlexibleLOM Enablement Kit NOTE: This riser kit is required when FlexibleLOM is selected. | 781844-B21 |

HPE Processors

E5-2600v4 series Processors

| HPE DL160 Geny Intel® Xeon® E5-2609v4 (1./GHz/8-core/20MB/85W) Processor Kit | 801788-B71 |
|---|--|
| HPE DL160 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) Processor Kit | 801289-B21 |
| HPE DL160 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W) Processor Kit | 801290-B21 |
| HPE DL160 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) Processor Kit | 801291-B21 |
| HPE DL160 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) Processor Kit | 801287-B21 |
| HPE DL160 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-core/10MB/85W) Processor Kit | 801301-B21 |
| HPE DL160 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W) Processor Kit | 801283-B21 |
| HPE DL160 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) Processor Kit | 801284-B21 |
| HPE DL160 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) Processor Kit | 801285-B21 |
| HPE DL160 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) Processor Kit | 825494-B21 |
| HPE DL160 Gen9 Intel® Xeon® E5-2695v4 (2.1GHz/18-core/45MB/120W) Processor Kit | 825498-B21 |
| HPE DL160 Gen9 Intel® Xeon® E5-2683v4 (2.1GHz/16-core/40MB/120W) Processor Kit | 825500-B21 |
| HPE DL160 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) Processor Kit | 801286-B21 |
| | |
| E5-2600v3 series Processors | |
| E5-2600v3 series Processors HP DL160 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit | 733943-B21 |
| | 733943-B21 763235-B21 |
| HP DL160 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit | |
| HP DL160 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit | 763235-B21 |
| HP DL160 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit | 763235-B21 733935-B21 |
| HP DL160 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit | 763235-B21 733935-B21 733937-B21 |
| HP DL160 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit | 763235-B21 733935-B21 733937-B21 733939-B21 |
| HP DL160 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit | 763235-B21 733935-B21 733937-B21 733939-B21 763241-B21 |
| HP DL160 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) Processor Kit | 763235-B21 733935-B21 733937-B21 733939-B21 763241-B21 779836-B21 |
| HP DL160 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor Kit | 763235-B21 733935-B21 733937-B21 733939-B21 763241-B21 779836-B21 733931-B21 |
| HP DL160 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) Processor Kit NOTE: Processor upgrade from E5-2600v3 to E5-2600v4 is supported for processors | 763235-B21 733935-B21 733937-B21 733939-B21 763241-B21 779836-B21 733931-B21 733933-B21 |
| HP DL160 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) Processor Kit HP DL160 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) Processor Kit | 763235-B21 733935-B21 733937-B21 733939-B21 763241-B21 779836-B21 733931-B21 733933-B21 |

Memory Selection

To streamline the configuration process for HPE ProLiant Gen9 servers and to provide the best product availability, HPE recommends memory from the list located here: http://www.hpe.com/products/recommend.

HPE Memory Registered DIMMs (RDIMMs) for E5-2600v4 Series

| | HP 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory Kit | 805347-B21 |
|--------------------|---|-------------|
| | HP 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit | 805349-B21 |
| | HPE 16GB (1x16GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit | 836220-B21 |
| | HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit | 805351-B21 |
| | NOTE: These Memory DIMMs are supported only on E5-2600v4 processors. | |
| | Registered DIMMs (RDIMMs) for E5-2600v3 Series | |
| | HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15 Registered Memory Kit | 726717-B21 |
| | HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit | 726718-B21 |
| | HP 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15 Registered Memory Kit | 759934-B21 |
| | HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15 Registered Memory Kit | 726719-B21 |
| | HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15 Registered Memory Kit | 728629-B21 |
| | NOTE: These Memory DIMMs are supported only on E5-2600v3 processors. | |
| | Load Reduced DIMMs (LRDIMMs) for E5-2600v4 Series | |
| | HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit | 805353-B21 |
| | HPE 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit | 805358-B21 |
| | NOTE: These Memory DIMMs are supported only on E5-2600v4 processors. | |
| | Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series | |
| | HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15 Load Reduced Memory Kit | 726720-B21 |
| | HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit | 726722-B21 |
| | HP 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit | 726724-B21 |
| | NOTE: These Memory DIMMs are supported only on E5-2600v3 processors. | |
| | HPE Standard Memory for E5-2600v4 Series | |
| | HPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Standard Memory Kit | 851353-B21 |
| | NOTE: These Memory DIMMs are supported only on E5-2600v4 processors. | |
| | HPE Standard Memory for E5-2600v3 Series | |
| | HPE 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15 Registered Standard Memory Kit | 803026-B21 |
| | HPE 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit | 803028-B21 |
| | NOTE: These Memory DIMMs are supported only on E5-2600v3 processors. | |
| HPE Optical Drives | HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive | 726536-B21 |
| | HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive | 726537-B21 |
| | 7. J.S. Mill S. V. V. B. V. B. V. V. B. G. V. B. G. V. G. | 720007 0221 |
| HPE Drives | SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives | |
| | HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD | 872479-B21 |
| | HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD | 781518-B21 |
| | HPE 900GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD | 785069-B21 |
| | HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD | 872477-B21 |
| | HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD | 781516-B21 |
| | | Page 23 |

| HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD | 872475-B21 |
|--|------------|
| HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD | 785067-B21 |
| HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD | 870759-B21 |
| HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD | 870757-B21 |
| HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty HDD | 759212-B21 |
| HPE 450GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty HDD | 759210-B21 |
| HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD | 870753-B21 |
| HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty HDD | 759208-B21 |
| SAS Hot Plug SFF (2.5-inch) Enterprise 512e Drives | |
| HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD | 872481-B21 |
| HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e HDD | 791034-B21 |
| HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD | 870765-B21 |
| HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD | 870763-B21 |
| HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e HDD | 748387-B21 |
| SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives | |
| HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty HDD | 832514-B21 |
| SAS Hot Plug SFF (2.5-inch) Midline 512e 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 512e HDD | 765464-B21 |
| SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives | |
| HPE 600GB SAS 12G Enterprise 15K LFF (3.5in) SC 3yr Wty HDD | 765424-B21 |
| HPE 450GB SAS 12G Enterprise 15K LFF (3.5in) SCC 3yr Wty HDD | 737394-B21 |
| HPE 300GB SAS 12G Enterprise 15K LFF (3.5in) SCC 3yr Wty HDD | 737261-B21 |
| SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives | |
| HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 846514-B21 |
| HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD | 872487-B21 |
| HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 818367-B21 |
| HPE 3TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 846528-B21 |
| HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD | 872485-B21 |
| HPE 2TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 818365-B21 |
| HPE 1TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 846524-B21 |
| SAS Hot Plug LFF (3.5-inch) Midline 512e Drives | |
| HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 819201-B21 |
| HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 861754-B21 |
| SAS Hot Plug LFF (3.5-inch) 512e Performance Drives | |
| HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 861756-B21 |
| SAS Hot Plug LFF (3.5-inch) Midline 512e Helium Drives | |
| HPE 10TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 857644-B21 |
| HPE 8TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 861590-B21 |
| | |

| SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives | |
|--|--------------------------|
| HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty HDD | 655710-B21 |
| SATA Hot Plug SFF (2.5-inch) Midline 512e Drives | |
| HPE 2TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD | 765455-B21 |
| HPE 1TB SATA 6G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD | 765453-B21 |
| SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives | |
| HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 846510-B21 |
| HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD | 872491-B21 |
| HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 861678-B21 |
| HPE 3TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 861693-B21 |
| HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Digitally Signed Firmware HDD | 872489-B21 |
| HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 861676-B21 |
| HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty HDD | 861691-B21 |
| HPE 500GB SATA 6G Midline 7.2k LFF (3.5in) SC 1yr Wty HDD | 658071-B21 |
| SATA Hot Plug LFF (3.5-inch) Midline 512e Drives | |
| HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 819203-B21 |
| HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 861750-B21 |
| HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 861752-B21 |
| SATA Hot Plug LFF (3.5-inch) Midline 512e Helium Drives | |
| HPE 10TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 857648-B21 |
| HPE 8TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e HDD | 861594-B21 |
| HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty Helium 512e HDD | 793683-B21 |
| SATA Non-hot Plug LFF 7.2K (3.5-inch) Standard Drives | |
| HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) RW 1yr Wty HDD | 801888-B21 |
| HPE 2TB SATA 6G Midline 7.2K LFF (3.5in) RW 1yr Wty HDD | 801884-B21 |
| HPE 1TB SATA 6G Midline 7.2K LFF (3.5in) RW 1yr Wty HDD | 801882-B21 |
| SSD Selection | |
| To streamline the configuration process for HPE ProLiant Gen9 servers and to provide the | |
| best product availability, HPE recommends SSDs from the list located here: http://www.hpe.com/products/recommend. | |
| 12G SAS Hot Plug SFF (2.5-inch) Write Intensive Solid State Drives | |
| HPE 1.6TB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 779176-B21 |
| HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 777170 B21 779172-B21 |
| HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 777172 B21 779168-B21 |
| HPE 200GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 777166 B21 779164-B21 |
| HPE 800GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 802586-B21 |
| HPE 400GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 802582-B21 |
| HPE 200GB SAS 12G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 802578-B21 |
| 12G SAS Hot Plug SFF (2.5-inch) Read Intensive Solid State Drives | 002370 B21 |
| HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872394-B21 |
| HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 875330-B21 |
| HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty SSD | 816576-B21 |
| HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872392-B21 |

| HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 875326-B21 |
|--|------------|
| HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty SSD | 816572-B21 |
| HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty SSD | 802891-B21 |
| HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872390-B21 |
| HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 875313-B21 |
| HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty SSD | 816568-B21 |
| HPE 480GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 875311-B21 |
| HPE 480GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty SSD | 816562-B21 |
| 12G SAS Mixed Use Hot Plug SFF (2.5-inch) Solid State Drives | |
| HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872386-B21 |
| HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty SSD | 822567-B21 |
| HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872382-B21 |
| HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty SSD | 822563-B21 |
| HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872376-B21 |
| HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty SSD | 822559-B21 |
| HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872374-B21 |
| HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty SSD | 822555-B21 |
| 12G SAS Mixed Use Hot Plug LFF (3.5-inch) Solid State Drives | |
| HPE 800GB SAS 12G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 872378-B21 |
| 6G SATA Hot Plug SFF (2.5-inch) Write Intensive Solid State Drives | |
| HPE 1.6TB SATA 6G WI SFF SC DS SSD | 872363-B21 |
| HPE 1.2TB SATA 6G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 804677-B21 |
| HPE 800GB SATA 6G WI SFF SC DS SSD | 872359-B21 |
| HPE 800GB SATA 6G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 804671-B21 |
| HPE 400GB SATA 6G WI SFF SC DS SSD | 872355-B21 |
| HPE 400GB SATA 6G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 804665-B21 |
| HPE 200GB SATA 6G Write Intensive SFF (2.5in) SC 3yr Wty SSD | 804639-B21 |
| 6G SATA Hot Plug SFF (2.5-inch) Read Intensive Solid State Drives | |
| HPE 3.8TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 868830-B21 |
| HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 871770-B21 |
| HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 868826-B21 |
| HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 875513-B21 |
| HPE 1.6TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 869386-B21 |
| HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 869384-B21 |
| HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 871768-B21 |
| HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 868822-B21 |
| HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware | |

| SSD | |
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| HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 869378-B21 |
| HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 868818-B21 |
| HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 875509-B21 |
| HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD | 872855-B21 |
| HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 869376-B21 |
| HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 868814-B21 |
| HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 875503-B21 |
| HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD | 804587-B21 |
| HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD | 872853-B21 |
| HPE 150GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 869374-B21 |
| Read Intensive - 6G SATA - M.2 - Solid State Drives | |
| HPE 960GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD | 875500-B21 |
| HPE 480GB SATA 6G Read Intensive M.2 2280 3yr Wty Digitally Signed Firmware SSD | 875498-B21 |
| 6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drives | |
| HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872352-B21 |
| HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 875478-B21 |
| HPE 1.6TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty SSD | 804631-B21 |
| HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872348-B21 |
| HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 875474-B21 |
| HPE 800GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty SSD | 804625-B21 |
| HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 872344-B21 |
| HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 875470-B21 |
| HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty SSD | 832414-B21 |
| HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD | 875483-B21 |
| HPE 200GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty SSD | 804613-B21 |
| Mixed Use - 6G SATA - M.2 - Solid State Drives | |
| 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 |
| 6G SATA Hot Plug LFF (3.5-inch) Write Intensive Solid State Drives | |
| HPE 1.6TB SATA 6G WI LFF SCC DS SSD | 872365-B21 |
| HPE 1.2TB SATA 6G Write Intensive LFF (3.5in) SCC 3yr Wty SSD | 804680-B21 |
| HPE 800GB SATA 6G WI LFF SCC DS SSD | 872361-B21 |
| HPE 800GB SATA 6G Write Intensive LFF (3.5in) SCC 3yr Wty SSD | 804674-B21 |
| HPE 400GB SATA 6G WI LFF SCC DS SSD | 872357-B21 |
| HPE 400GB SATA 6G Write Intensive LFF (3.5in) SCC 3yr Wty SSD | 804668-B21 |
| HPE 200GB SATA 6G Write Intensive LFF (3.5in) SCC 3yr Wty SSD | 804642-B21 |
| 6G SATA Hot Plug LFF (3.5-inch) Read Intensive Solid State Drives | |
| | |

| | HPE 1.6TB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 869388-B21 |
|----------------|---|------------|
| | HPE 480GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 869380-B21 |
| | HPE 240GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty SSD | 804590-B21 |
| | 6G SATA Hot Plug LFF (3.5-inch) SC Mixed Use Solid State Drives | |
| | HPE 1.92TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 875480-B21 |
| | HPE 1.6TB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty SSD | 804634-B21 |
| | HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 872350-B21 |
| | HPE 800GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty SSD | 804628-B21 |
| | HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD | 872346-B21 |
| | HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty SSD | 832417-B21 |
| | HPE 200GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty SSD | 804616-B21 |
| | M.2 SSD | |
| | HPE 340GB SATA 6G Read Intensive 3yr Wty M.2 Kit | 835563-B21 |
| | HPE 340GB SATA 6G Read Intensive 3yr Wty Dual M.2 Kit | 835565-B21 |
| | HPE 120GB SATA 6G Read Intensive HHHL 3yr Wty M.2 Kit | 788028-B21 |
| | HPE Universal SATA HHHL 3yr Wty M.2 Kit | 878783-B21 |
| | HP Dual 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL Servers | 777894-B21 |
| | NOTE: M.2 drives go in PCIe slots and use B140i SATA controller only. | |
| | Hard Drive Blank Kits | |
| | HPE Large Form Factor Hard Drive Blank Kit | 666986-B21 |
| | HPE Small Form Factor Hard Drive Blank Kit | 666987-B21 |
| | | |
| HPE Networking | 1 Gigabit Ethernet adapters | |
| | HPE Ethernet 1Gb 4-port 331T Adapter | 647594-B21 |
| | HPE Ethernet 1Gb 2-port 332T Adapter | 615732-B21 |
| | HPE Ethernet 1Gb 2-port 361T Adapter | 652497-B21 |
| | HPE Ethernet 1Gb 4-port 366T Adapter | 811546-B21 |
| | 10 Gigabit Ethernet adapters | |
| | HPE Ethernet 10Gb 2-port 530SFP Adapter | 652503-B21 |
| | HPE Ethernet 10Gb 2-port 530T Adapter | 656596-B21 |
| | HPE Ethernet 10Gb 2-port 546SFP+ Adapter | 779793-B21 |
| | HPE Ethernet 10Gb 2-port 560SFP+ Adapter | 665249-B21 |
| | HPE Ethernet 10Gb 2-port 561T Adapter | 716591-B21 |
| | HPE Ethernet 10Gb 2-port 562SFP+ Adapter | 727055-B21 |
| | NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each | |
| | adapter. | |
| | NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and | |
| | cables for fiber-optic environments must be purchased separately. See cables/options below. | |
| | 25 Gigabit Ethernet adapters | |
| | HPE Ethernet 4x25Gb 1-port 620QSFP28 Adapter | 817762-B21 |
| | HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter | 817753-B21 |
| | | |

| Core Opilons | | |
|-----------------------|--|------------|
| | FlexibleLOM Adapters | |
| | HPE Ethernet 1Gb 4-port 331FLR Adapter | 629135-B22 |
| | HPE Ethernet 1Gb 4-port 366FLR Adapter | 665240-B21 |
| | HPE FlexFabric 10Gb 2-port 533FLR-T Adapter | 700759-B21 |
| | HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter | 700751-B21 |
| | HPE FlexFabric 10Gb 4-port 536FLR-T Adapter | 764302-B21 |
| | HPE Ethernet 10Gb 2-port 546FLR-SFP+ Adapter | 779799-B21 |
| | HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter | 665243-B21 |
| | HPE Ethernet 10Gb 2-port 561FLR-T Adapter | 700699-B21 |
| | HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter | 727054-B21 |
| | HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter | 817749-B21 |
| | NOTE: FlexibleLOM riser kit (P/N: 765509-B21) is required when any FlexibleLOM is selected. | |
| | NOTE: Please see the QuickSpecs for Technical Specifications and additional | |
| | information: http://www.hp.com/go/ProLiantNICs | |
| | | |
| HPE InfiniBand | HPE InfiniBand FDR 2-port 545QSFP Adapter | 702211-B21 |
| | 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 |
| | NOTE: Please see the HPE InfiniBand Options for HP ProLiant and Integrity Servers | |
| | QuickSpecs for additional information. | |
| | | |
| HPE I/O Expansion | HPE DL160 Gen9 Low Profile PCle CPU2 Riser Kit | 725586-B21 |
| Options | NOTE: CPU 2 is required if this riser is to be installed, enables one PCIe3 slot. | |
| | HP DL160 Gen9 FlexibleLOM Enablement Kit | 781844-B21 |
| | NOTE: This enablement kit is required when FlexibleLOM is selected. | |
| LIDE Davies | LIDE Entry I was Dawn Complies | |
| HPE Power Supplies | HPE Entry-Level Power Supplies LIDE 000W Standard AC 27 0VDC Power Input Module | 77EE0E D21 |
| Supplies | HPE 900W Standard AC 240VDC Power Input Module | 775595-B21 |
| | NOTE: This part number can only be bought standalone and is for field integration only. NOTE: RPS Backplane is mandatorily needed with this power input module. | |
| | HPE 900W Standard AC 240VDC RPS Power Backplane | 814835-B21 |
| | · | 014033-DZ1 |
| | NOTE: This part number can only be bought standalone and is for field integration only. NOTE: This RPS backplane is mandatorily needed with 900W RPS input module. | |
| | HPE 900W Standard AC 240VDC Redundant Power Supply Kit | 820792-B21 |
| | NOTE: This Redundant Power supply kit includes 2 power supply input module and 1 | |
| | backplane kit. | |
| | NOTE: This part number is both factory installed option and filed integrable option. | |
| | NOTE: This Power supply supports both 100-240V AC and 240V DC. | |
| | NOTE: Supports Gold-level efficiency (92%) with a standard C14 inlet connector. No | |
| | support for HPE Power Discovery Services. Only compatible with select HPE ProLiant Gen9 Essential servers. | |
| | NOTE: HPE 900W Gold (Redundant) AC 240VDC Power Input Module (775595-B21) | |
| | must be used with Power Backplane (814835-B21). | |
| | NOTE: Each Redundant Power Supply Backplane can support up to two (2) power input | |

modules.

NOTE: Redundant AC Power Input Modules do not share power. Redundant AC Power Input Module #1 is the primary AC Power Input Module. Redundant AC Power Input Module #2 is the backup AC Power Input Module.

NOTE: Mixing of power supplies in the same server is not supported. All power supplies must be of the same input voltage, output rating, and efficiency rating. If non-matching power supplies are installed, you may receive an error message and/or experience operational issues with your server.

NOTE: Prior to selecting a power supply option, it is highly recommended that you review your server configuration in the HPE Power Advisor tool to determine the right size power supply for your server configuration. The HPE Power Advisor is located at: http://www.hpe.com/info/hppoweradvisor.

HPE Cooling Options

HP DL160 Gen9 Redundant Fan Kit

725587-B21

NOTE: This kit includes one fan and is required for enabling fan redundancy with 1P and 2P configurations.

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

HPE Insight Software

HPE Insight Control

HPE Insight Control including 1yr 24x7 Technical Support and Updates 1-server LTU C6N27A HPE Insight Management Media Kit C6N31A

HPE ProLiant DL160 Generation9 (Gen9)

NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.

NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24x7 HPE Software Technical Support and Update Service.

NOTE: Licenses ship without media. The HPE Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates.

NOTE: For additional license options please see the HPE Insight Control QuickSpecs.

Embedded Management

HPE iLO Advanced

| HPE iLO Advanced including 1yr 24x7 Technical Support and Updates 1-server LTU | 512485-B21 |
|--|------------|
| HPE iLO Advanced including 3yr 24x7 Tech Support and Updates 1-server LTU | BD505A |
| HPE iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU | E6U59ABE |
| HPE iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU | E6U64ABE |
| HPE iLO Essentials | |
| HPE iLO Essentials including 3yr 24x7 Tech Support and Updates 1-server LTU | BD774A |
| HPE iLO Essentials including 1yr 24x7 Tech Support and Updates 1-server LTU | BD775A |
| HPE iLO Essentials including 3yr 24x7 Technical Support and Updates E-LTU | E6U61ABE |
| HPE iLO Essentials including 1yr 24x7 Technical Support and Updates E-LTU | E6U62ABE |
| HPE iLO Scale-out | |
| HPE iLO Scale-Out 3yr 24x7 Tech Support and Updates Flexible Quantity LTU | BD776A |
| HPE iLO Scale-Out including 3yr 24x7 Tech Support and Updates Flex Qty E-LTU | BD776AAE |
| HPE iLO Scale-Out including 3yr 24x7 Tech Support and Updates Tracking LTU | BD777A |
| HPE iLO Scale-Out 1yr 24x7 Tech Support and Updates Flexible Quantity LTU | BD778A |
| HPE iLO Scale-Out including 1yr 24x7 Tech Support and Updates Flex Qty E-LTU | BD778AAE |

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 Physical Media Kit LTU | E5Y37A |

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 |

NOTE: Full licenses of HPE OneView Advanced also provide the right-to-use HPE Insight Control without additional charge.

HPE iLO Scale-Out including 1yr 24x7 Tech Support and Updates Tracking LTU

BD779A

NOTE: Server provisioning (via 'HPE Insight Control server provisioning') is licensed as part of HPE OneView Advanced and provides multi-server OS and driver provisioning. Media kit #BD883A can be ordered for a physical copy of this software (USB flash drive). NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be downloaded at: http://www.hpe.com/info/hpeoneview. NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.

High Performance Clusters

HPE Cluster Management Utility

HPE Insight Cluster Management Utility 1yr 24x7 Flexible LTU QL803B HPE Insight Cluster Management Utility 3yr 24x7 Flexible LTU BD476A HPE Insight Cluster Management Utility Media BD477A

NOTE: These part numbers can be used to purchase one certificate for multiple licenses and support with a single activation key. Each license is for one node (server). Customer will receive a printed end user license agreement and license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online in order to obtain a license key. Customer also will receive a support agreement.

NOTE: For additional license kits please see the HPE Insight Cluster Management

Utility QuickSpecs

HPE PCIe Workload HPE Read Intensive PCIe Workload Accelerator

| Accelerator Options HPE 6.4TB Read Intensive-2 FH/HL PCIe Workload Accelerator | 831739-B21 |
|--|------------|
| HPE 3.2TB Read Intensive-2 HH/HL PCIe Workload Accelerator | 831737-B21 |
| HPE 1.6TB Read Intensive-2 HH/HL PCIe Workload Accelerator | 831735-B21 |
| HPE 1.3TB Read Intensive-2 HH/HL PCIe Workload Accelerator | 831733-B21 |

Light Endurance (LE) PCIe Workload Accelerators

HPE 5.2TB FH/HL Light Endurance (LE) PCIe Workload Accelerator 775672-B21

NOTE: Please see the HPE PCIe Workload Accelerators for ProLiant Servers

QuickSpecs for Technical Specifications and additional information.

HPE Security

HPE 1U Security Bezel Kit

664918-B21

NOTE: Quick Release Ear option kit (774609-B21) is required for installing security bezel.

HPE Trusted Platform Module 2.0 Kit

745823-B21

NOTE: HPE Trusted Platform Module 2.0 Option works with Gen9 servers with UEFI Mode not Legacy Mode. It is not compatible with HP ProLiant Gen8 servers or earlier generation variants.

NOTE: HPE Gen9 servers purchased earlier may need the latest firmware update to be compatible with the TPM 2.0 Option.

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

HPE Trusted Platform Module Option

488069-B21

NOTE: The HPE Trusted Platform Module Option (488069-B21) is the TPM 1.2 version. Compatible server platforms include Gen8 and Gen9 servers.

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

| HPE Storage | SAS Controllers | |
|-------------|---|------------|
| Controllers | HPE Smart Array Controllers | |
| | HPE Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller | 726821-B21 |
| | HPE Smart Array P440/2GB FBWC 12Gb 1-port Int SAS Controller | 820834-B21 |
| | NOTE: Includes the HPE Smart Storage Battery. | |
| | HPE Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller | 726825-B21 |
| | HPE Smart Host Bus Adapters | |
| | HPE H240 12Gb 2-ports Int Smart Host Bus Adapter | 726907-B21 |
| | HPE H241 12Gb 2-ports Ext Smart Host Bus Adapter | 726911-B21 |
| | HPE Cable Options | |
| | HP DL160 Gen9 4LFF Smart HBA H240 SAS Cable Kit | 725590-B21 |
| | HP DL160 Gen9 8SFF Smart HBA H240 SAS Cable Kit | 774621-B21 |
| | HP DL160 Gen9 4LFF Smart Array P440 SAS Cable Kit | 725593-B21 |
| | HP DL160 Gen9 8SFF Smart Array P440 SAS Cable Kit | 774619-B21 |
| | NOTE: One of the above cables is required to be selected depending on the combination | |
| | of server and storage controller. Cable option kit descriptions include the right server and storage controllers names. | |
| | NOTE: NHP server model includes SATA cables required to connect drives to embedded | |
| | B140i SATA controller. | |
| | Optional Software | |
| | HPE SmartCache No Media 24x7 Technical Support 1-server LTU | D7S26A |
| | HPE SmartCache No Media 24x7 Technical Support Flexible LTU | D7S27A |
| | HPE SmartCache No Media 24x7 Technical Support E-LTU | D7S27AAE |
| | NOTE: HPE SmartCache is supported when one of the supported Smart Array | |
| | Controllers is installed in the server. | |
| | HPE Smart Array Secure Encryption/Data at Rest Encryption/per Server Entitlement E-LTU | Q2F26AAE |
| | Optional Upgrades | |
| | HP 96W Smart Storage Battery with 145mm Cable for DL/ML/SL Servers | 727258-B21 |
| | NOTE: This option is mandatorily required with HPE Smart Array controllers. One server can accommodate only 1 Smart Storage Battery that would suffice the requirement of all HPE Smart Array controllers. | |

HPE Tape Backup

NOTE: For the complete range of tape drives, autoloaders, libraries and media see:

http://www.hp.com/go/tape. For hardware and software compatibility of HPE tape backup products http://www.hpe.com/storage/BURAcompatibility.

NOTE: For Internal drives to be connected to DL servers please make sure that you order rack mount kit as well.

Tape Drives

SAS Rack-Mount Tape Solutions

| HPE StoreEver LTO-6 Ultrium 6250 Tape Drive in a 1U Rack Mount Kit | COL99A |
|--|--------|
| HPE StoreEver LTO-6 Ultrium 6250 External Tape Drive | EH970A |
| HPE StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in a 1U Rack Mount Kit | EJ014B |
| HPE StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive | EH958B |
| HPF StoreEver LTO-4 Ultrium 1760 SAS (1) in a 1U Rack Mount Kit | FH946C |

| HPE StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive | EH920B |
|--|--------|
| HPE StoreEver 1U SAS Rack Mount Kit | AE459B |
| HPE StoreEver LTO-7 Ultrium 15000 Internal Tape Drive | BB873A |
| HPE StoreEver LTO-7 Ultrium 15000 External Tape Drive | BB874A |
| HPE DAT Autoloader | |
| HPE StoreEver 1/8 G2 LTO-6 Ultrium 6250 Fibre Channel Tape Autoloader | COH19A |
| HPE StoreEver 1/8 G2 LTO-7 Ultrium 15000 FC Tape Autoloader | N7P34A |
| HPE StoreEver 1/8 G2 LTO-7 Ultrium 15000 SAS Tape Autoloader | N7P35A |
| HPE MSL2024 Tape Library | |
| HPE StoreEver MSL2024 0-drive Tape Library | AK379A |
| HPE MSL4048 Tape Library | |
| HPE StoreEver MSL4048 0-drive Tape Library | AK381A |
| HPE StoreEver MSL6480 | |
| HPE StoreEver MSL6480 Scaleable Expansion Module | QU626A |
| HPE StoreEver MSL6480 Scalable Base Module | QU625A |
| NOTE: Please see the HPE StoreEver MSL6480 Tape Library QuickSpecs for Technical | |
| Specifications and additional information). | |
| | |

HPE Disk Backup HPE RDX Removable Disk Backup System

| HPE RDX 3TB USB 3.0 Internal Disk Backup System | P9L71A |
|--|--------|
| HPE RDX+ 3TB USB 3.0 External Disk Backup System | P9L72A |
| HP RDX 2TB USB3.0 External Disk Backup System | E7X53B |
| HP RDX+ 1TB External Backup System | B7B69B |
| HP RDX+ 500GB External Backup System | B7B66B |
| HPE RDX+ External Docking System | C8S07B |
| HPE D3700 Enclosure | QW967A |
| HPE D3600 Enclosure | QW968A |
| HPE StoreOnce 5100 48TB System | BB915A |
| HPE StoreOnce 3540 24TB System | BB914A |
| HPE StoreOnce 3520 12TB System | BB922A |
| HPE StoreOnce 3100 8TB System | BB913A |

NOTE: For the complete range of RDX drives and media see:

http://www.hp.com/go/rdx. For hardware and software compatibility of HPE disk

backup products see: http://www.hp.com/storage/SPOCK.

NOTE: Please see the **HPE RDX Removable Disk Backup System QuickSpecs** for additional part numbers, Technical Specifications, and additional information

HPE Storage Options

Emulex Fibre Channel HBAs

| HPE 82E 8Gb 2-port PCle Fibre Channel Host Bus Adapter | AJ763B |
|---|--------|
| HPE 81E 8Gb 1-port PCle Fibre Channel Host Bus Adapter | AJ762B |
| HPE StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter | C8R39A |
| HPE StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter | C8R38A |
| QLogic Fibre Channel HBAs | |
| HPE 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter | AJ764A |
| HPE 81Q 8Gb 1-port PCle Fibre Channel Host Bus Adapter | AK344A |

| HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter | QW971A |
|---|--------|
| HPE StoreFabric SN1000Q 16GB 2-port PCle Fibre Channel Host Bus Adapter | QW972A |
| HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter | P9D93A |
| HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter | P9D94A |
| Converged Network Adapter | |
| HPE StoreFabric CN1200E 10Gb Converged Network Adapter | E7Y06A |
| HPE StoreFabric CN1100R Dual Port Converged Network Adapter | QW990A |
| HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter | N3U51A |
| HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter | N3U52A |

HPE Data Center Racks

HPE Advanced Series Racks

| HPE 42U 600mm x 1075mm Advanced Pallet Rack | H6J65A |
|---|--------|
| HPE 42U 600mm x 1075mm Advanced Shock Rack | H6J66A |
| HPE 42U 600mm x 1200mm Advanced Pallet Rack | H6J67A |
| HPE 42U 600mm x 1200mm Advanced Shock Rack | H6J68A |
| HPE 36U 600mm x 1075mm Advanced Pallet Rack | H6J77A |
| HPE 36U 600mm x 1075mm Advanced Shock Rack | H6J78A |
| HPE 14U 600mm x 1075mm Advanced Shock Rack | H6J82A |
| HPE 22U 600mm x 1075mm Advanced Pallet Rack | H6J83A |
| HPE 22U 600mm x 1075mm Advanced Shock Rack | H6J84A |
| HPE 48U 600mm x 1075mm Advanced Pallet Rack | H6J87A |
| HPE 48U 600mm x 1075mm Advanced Shock Rack | H6J88A |
| | |

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

HPE Enterprise Series Racks

| HP 36U 600mm x 1075mm Enterprise Pallet Rack | BW895A |
|---|--------|
| HP 36U 600mm x 1075mm Enterprise Shock Rack | BW896A |
| HPE 42U 600mm x 1075mm Enterprise Pallet Rack | BW903A |
| HP 42U 600mm x 1075mm Enterprise Shock Rack | BW904A |
| HP 42U 600mm x 1200mm Enterprise Pallet Rack | BW907A |
| HP 42U 600mm x 1200mm Enterprise Shock Rack | BW908A |
| HP 47U 600mm x 1075mm Enterprise Pallet Rack | BW911A |
| HP 47U 600mm x 1075mm Enterprise Shock Rack | BW912A |
| HP 47U 600mm x 1200mm Enterprise Pallet Rack | BW913A |
| HP 47U 600mm x 1200mm Enterprise Shock Rack | BW914A |
| HP 42U 800mm x 1075mm Enterprise Pallet Rack | BW917A |
| HP 42U 800mm x 1075mm Enterprise Shock Rack | BW918A |

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

CAUTION: Hewlett Packard Enterprise recommends that a minimum of two people are required for all Rack Server installations. Please refer to your installation instructions for proper tools and number of people to use for any installation.

H5M54A

H5M56A

Additional Options

| HPE Power |
|---------------------------|
| Distribution Units |
| (PDUs) |
| (PDUs) |

HPE Basic Power Distribution Units (PDU)

HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU

HPE Basic 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW

| PDU | 113113371 |
|---|------------|
| HPE Basic 2.8kVA/L5-30P 24A/120V Outlets (18) 5-20R/Vertical NA/JP PDU | H5M55A |
| HPE Basic 4.9kVA/60320 C20 Detachable 16A/230V Outlets (20) C13/Vertical WW PDU | H5M57A |
| HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (20) C13/Vertical NA/JP PDU | H5M58A |
| HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13/Vertical NA/JP PDU | H5M61A |
| HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU | H5M59A |
| HPE Basic 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (6) C19/Vertical NA PDU | H5M60A |
| HPE Basic 9.2kVA/50A Terminal Block 40A/230V Outlets (30) C13 (6) C19/Vertical WW PDU | H5M75A |
| HPE Basic 3Ph 5.7kVA/ L21-20P 16A/120-208V Outlets (24) C13 (3) 5-20R/Vertical NA/JP PDU | H5M63A |
| HPE Basic 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (24) C13 (3) C19 (3) 5-20R/Vertical NA/JP PDU | H5M64A |
| HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU | H5M62A |
| HPE Basic 3Ph 11kVA/60309 16A/240V Outlets (36) C13 (6) C19/Vertical NA PDU | H5M67A |
| HPE Basic Modular 2.8kVA/L5-30P 24A/120V Outlets (4) C19/Horizontal NA/JP PDU | 252663-D71 |
| HPE Basic Modular 4.9kVA/L6-30P 24A/208V Outlets (4) C19/Horizontal NA/JP Core Only PDU | 252663-D74 |
| HPE Basic Modular 8.3kVA/CS8265C 40A/208V Outlets (4) C19/Horizontal NA/JP PDU | 252663-D75 |
| HPE Basic Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU | AF512A |
| HPE Basic Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU | AF519A |
| HPE Basic Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (6) C19/Horizontal NA/JP PDU | AF511A |
| HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer | H3X09A |
| NOTE: Please see the HPE Basic Power Distribution Units (PDU) QuickSpecs | |
| for information on additional options and product specifications. | |
| HPE Metered Power Distribution Units (PDU) | |
| HPE Metered 2.8kVA/L5-30P 24A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU | D9N43A |
| HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU | D9N46A |
| HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Horizontal NA/JP PDU | D9N44A |
| HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (16) C13/Vertical WW PDU | D9N45A |
| HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Vertical NA/JP PDU | G9Z05A |
| HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU | D9N47A |
| HPE Metered 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (3) C19/Vertical NA/JP PDU | D9N51A |
| HPE Metered 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (18) C13 (3) C19 (3) 5-20R/Vertical NA/JP PDU | D9N53A |
| HPE Metered 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (3) C19/Vertical NA PDU | D9N49A |
| HPE Metered 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical | D9N58A |
| | Page 36 |

| NA/JP PDU | |
|--|--------|
| HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V Outlets (30) C13 (3) | D9N61A |
| C19/Vertical NA/JP PDU | |
| HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V Outlets (12) C13 (12) C19/Vertical NA/JP PDU | D9N62A |
| HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (24) C13 (3) C19/Vertical NA/JP PDU | D9N54A |
| HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU | D9N59A |
| HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU | G9Z07A |
| HPE Metered 3Ph 19.9kVA/L22-30P 24A/277V Outlets (30) RF-203P-HP/Vertical NA PDU | D9N63A |
| HP Environmental Sensor for Remote Monitored and Managed PDUs | E2D53A |
| NOTE: Please see the HPE Metered Power Distribution Units (PDU) QuickSpecs for | |
| information on additional options and product specifications. | |
| HPE Intelligent Power Distribution Unit (PDU) | |
| HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU | AF520A |
| HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU | AF521A |
| HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU | AF522A |
| HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU | AF523A |
| HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) C19/Horizontal NA/JP PDU | AF901A |
| HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) C19/Horizontal NA/JP PDU | AF535A |
| HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (6) C19/Horizontal NA/JP PDU | AF531A |
| HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (20) C13 (6) C19/Horizontal NA/JP PDU | AF532A |
| HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU | AF533A |
| HPE 5xC13 Intelligent PDU Extension Bar G2 Kit | AF547A |
| HPE 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar | AF528A |
| NOTE: Please see the HPE Intelligent Power Distribution Unit (PDU) QuickSpecs for | |
| information on additional options and product specifications. | |
| HPE Metered and Switched Power Distribution Units (PDU) | |
| HPE Metered Switched 2.8kVA/L5-30P 24A/120V Outlets (24) 5-20R /Vertical NA/JP PDU | H8B48A |
| HPE Metered Switched 3.6kVA/60320 C20 Detachable 16A/230V Outlets (7) C13 (1) C19/Vertical WW PDU | H8B49A |
| HPE Metered Switched 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU | H8B50A |
| HPE Metered Switched 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (6) C19/Vertical NA/JP PDU | H8B52A |
| HPE Metered Switched 3Ph 8.6kVA/L21-30P 24A/208V Outlets (20)C13 (3)C19 (1)5- | H8B53A |

HPE Rack Mount Consoles, KVM Switches, and Keyboards

| 20R/Vertical NA/JP PDU | |
|---|------------|
| HPE Metered Switched 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) | H8B55A |
| C19/Vertical NA/JP PDU | 1100337 |
| HPE Metered Switched 3Ph 17.3kVA/60309 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU | H8B56A |
| NOTE: Please see the HPE Metered and Switched Power Distribution Units (PDU) | |
| QuickSpecs for information on additional options and product specifications. | |
| NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) web | |
| page. | |
| HPE Location Discovery Services | |
| HPE Location Discovery Services LCD8500 Kit | TL052A |
| NOTE: Please see the HPE Location Discovery Services QuickSpecs for information | |
| on additional options and product specifications. | |
| HPE Rack Mount Consoles | |
| HP LCD8500 1U US Rackmount Console Kit | AF630A |
| HP LCD8500 1U US TAA Rackmount Console Kit | AF645A |
| HPE KVM Switches | |
| HP 0x1x8 G3 KVM Console Switch | AF651A |
| HP 0x2x16 G3 KVM Console Switch | AF652A |
| HP TAA 0x2x16 G3 KVM Console Switch | AF653A |
| HP USB Remote Access Key for G3 KVM Console Switches | AF650A |
| HP KVM Console USB Interface Adapter | AF628A |
| HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software | AF618A |
| HP 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software | AF619A |
| HP KVM Console USB 2.0 Virtual Media CAC Interface Adapter | AF629A |
| HP 1x4 USB/PS2 KVM Console Switch | AF611A |
| HP 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software | AF620A |
| HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software | AF621A |
| HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software | AF622A |
| NOTE: To learn more, please visit the HPE KVM Switches web page. | |
| HPE USB Keyboard and Mouse | |
| HPE USB US Keyboard/Mouse Kit | 631341-B21 |
| Rail Kits | |
| HP 1U Small Form Factor Easy Install Rail Kit | 734807-B21 |
| NOTE: This applies to both LFF and SFF models and it does not include cable | |
| management arm. | |
| HP 1U Cable Management Arm for Easy Install Rail Kit | 734811-B21 |
| HP 1U Short Friction Rail Kit | 775612-B21 |
| HPE Other Options | |
| HPE Rack LED Light Kit | BW939A |
| HP Kit LCD 1.83m Latch Display Port Cable | G7T29A |
| HP ConvergedSystem Door Branding Kit | TK815A |
| HP ConvergedSystem Rack Light Kit | TK816A |
| HP ConvergedSystem Rack Side Panel 1075mm Kit | TK817A |

| HPE |
|-----------------|
| Uninterruptible |
| Power Systems |
| (UPS) |

HPE DirectFlow Three Phase UPS

| Power Unit (1U UPS) | |
|--|--------|
| HPE R12000 DirectFlow - 1U Rackmount Uninterruptible Power System | G9Y75A |
| HPE R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System | AF478A |
| Input/Output Module Options for 1U UPS | |
| HPE 30A 400-415 Volt Three Phase NA R10000 DirectFlow UPS IEC309 Input/Output Module | AF489A |
| HPE 30A 480 Volt Three Phase NA R12000 DirectFlow UPS L22-30 Input/Output Module | AF491A |
| HPE 30A 480 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module | AF492A |
| HPE 30A 400-415 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module | G9Y76A |
| HPE DirectFlow UPS Management Card | AF493A |
| Power Unit (2U UPS) | |
| HPE R18000 DirectFlow - 2U Rackmount Uninterruptible Power System | AF479A |
| Input/Output Module Options for 2U UPS | |
| HPE 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module | AF486A |
| HPE 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module | AF487A |
| HPE 30A 400 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module | D9Q02A |
| HPE 30A 400-415V Three Phase NA R18000 DirectFlow UPS 1:1 IEC309 Input/Output Module | AF484A |
| NOTE: All Input/Output Modules support dual output outlets except the AF484A. | |
| Battery Pack Options | |
| HPE DirectFlow UPS - 1U Rackmount Lithium-ion Battery Pack | AF480A |
| HPE DirectFlow UPS - 3U Rackmount VRLA Battery Pack | AF482A |
| HPE WW DirectFlow Secondary Battery Cable | AF497A |
| NOTE: Please see the HPE DirectFlow Three Phase Uninterruptible Power System | |
| QuickSpecs for information on additional options and product specifications. | |
| HPE Tower UPS | |
| HPE T750 G4 UPS Models | |
| HPE T750 G4 NA/JP Uninterruptible Power System | J2P85A |
| HPE T1000 G4 UPS Models | |
| HPE T1000 G4 NA/JP Uninterruptible Power System | J2P86A |
| HPE T1500 G4 UPS Models | |
| HPE T1500 G4 NA/JP Uninterruptible Power System | J2P87A |
| HDE Dack/Tower LIPS | |

HPE Rack/Tower UPS

HPE R/T2200 G4 UPS Models

HPE R/T2200 G4 NA/JP Uninterruptible Power System J2R00A

HPE R/T3000 G4 UPS Models

HPE R/T3000 G4 Low Voltage NA/JP Uninterruptible Power System J2R01A HPE R/T3000 G4 High Voltage NA/JP Uninterruptible Power System J2R02A

R1500 G4 Models

HPE R1500 G4 NA Uninterruptible Power System J2Q99A

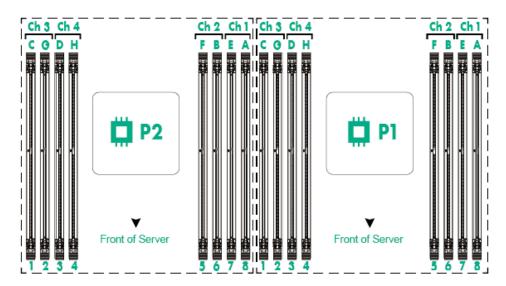
R7000 Uninterruptible Power System (UPS)

HPE R7000 4U 50A High Voltage NA/JP Uninterruptible Power System

AF462A

| | R5000 Uninterruptible Power System (UPS) HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System NOTE: Please see the HPE Line Interactive Single Phase UPS QuickSpecs for information on additional options and product specifications. HPE UPS Options HPE R/T2200 G4 Extended Runtime Module HPE R/T3000 G4 Extended Runtime Module HPE 2U Rack/Tower UPS Shipping Kit NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) web | J2R09A J2R10A L4Q11A |
|----------------|--|----------------------------|
| HPE USB and SD | HPE Enterprise Mainstream Flash Media Kits for Memory Cards | |
| Options | HPE 32GB microSD Mainstream Flash Media Kit | 700139-B21 |
| | HP Dual 8GB microSD Enterprise Midline USB Kit | 741279-B21 |
| | HPE 8GB microSD Enterprise Mainstream Flash Media Kit | 726116-B21 |
| | HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit | 737953-B21 |
| HPE Support | Foundation Care | |
| Services | HPE 3 year Foundation Care 24x7 DL160 Gen9 Service | U7AZ7E |
| | HPE 3 year Foundation Care 24x7 wDMR DL160 Gen9 Service | U7AZ8E |
| | HPE 3 year Foundation Care 24x7 wCDMR DL160 Gen9 Service | U7AZ9E |
| | Proactive Care | |
| | HPE 3 year Proactive Care 24x7 DL160 Gen9 Service | U7BA0E |
| | HPE 3 year Proactive Care 24x7 with DMR DL160 Gen9 Service | U7BA1E |
| | HPE 3 year Proactive Care 24x7 with CDMR DL160 Gen9 Service | U7BA2E |
| | Installation & Start-up Services | |
| | HPE Installation ProLiant DL160/DL360e Service | U6E11E |
| | HPE Installation and Startup Entry ML DL Server Service | U6E13E |
| | | |

Memory Population guidelines



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 and load the channels similarly whenever possible.
- . When two processors are installed, balance the DIMMs across the two processors.
- . Place the DIMMs with the highest number of ranks in the white slot when mixing DIMMs of different ranks on the same channel.
- . Do not mix RDIMMs or LRDIMMs.
- . Quad rank RDIMMs are not supported in HPE ProLiant DL160 Gen9 servers.
- . Quad rank LRDIMMs are capable of up to two DIMMs per channel.
- . DIMMs of different speeds may be mixed in any order; the server will select a common optimal speed.
- . 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 memory type and number of installed processors.
- . To realize the performance memory capabilities listed in this document, HPE SmartMemory is required.

Intel Gen9 Supported Memory Bandwidth for HPE ProLiant Gen9 Intel® Xeon® E5-2600v4 Series Processor Family

| Memory Bandwidth and Capacity | | | | | | | | |
|-------------------------------|---------------------|---------------------|------------------------|---------------------|---------------------|---------------------|--|--|
| [DIMM Type] | | Registered DII | Load Reduced (LRDIMMs) | | | | | |
| HPE SKU P/N | 805347-B21 | 805349-B21 | 836220-B21 | 805351-B21 | 805353-B21 | 805358-B21 | | |
| DIMM Rank | Single Rank | Single Rank | Dual Rank | Dual Rank | Dual Rank | Quad Rank | | |
| DIMM Capacity | 8GB | 16GB | 16GB | 32GB | 32GB | 64GB | | |
| Voltage | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V | | |

| DRAM Depth [bit] | 1G | 2G | 1G | 2G | 2G | 2G |
|--------------------------|----------|----------|----------|----------|----------|----------|
| DRAM Width [bit] | x8 | x4 | x4 | x4 | x4 | x4 |
| DRAM Density | 8Gb | 8Gb | 4Gb | 8Gb | 8Gb | 8Gb |
| CAS Latency | 17-17-17 | 17-17-17 | 17-17-17 | 17-17-17 | 17-17-17 | 17-17-17 |
| DIMM Native Speed (MT/s) | 2400 | 2400 | 2400 | 2400 | 2400 | 2400 |
| SLOTS THAT CAN BE POPUL | ATED | | | | | |
| 16 slot servers | 16 | 16 | 16 | 16 | 16 | 16 |
| MAXIMUM CAPACITY (GB) | | | | | | |
| | 128 | 256 | 256 | 512 | 512 | 1024 |
| POPULATED DIMM SPEED (M | IT/s) | | | | | |
| 1 DIMM Per Channel | 2400 | 2400 | 2400 | 2400 | 2400 | 2400 |
| 2 DIMM Per Channel | 2133 | 2133 | 2133 | 2133 | 2400 | 2400 |
| 3 DIMM Per Channel | n/a | n/a | n/a | n/a | n/a | n/a |

NOTE: DL160 has 2 DIMMs per channel and hence 3 DIMMs per channel memory speeds are not applicable on DL160.

Intel Gen9 Supported Memory Bandwidth for HPE ProLiant Gen9 Intel® Xeon® E5-2600v3 Series Processor Family

| Memory Bandwidth and Capacity | | | | | | | | |
|-------------------------------|-----------------------------|---------------------|---------------------|---------------------|------------------------|---------------------|---------------------|---------------------|
| [DIMM Type] | Registered DIMMs (RDIMMs) | | | | Load Reduced (LRDIMMs) | | | |
| HPE SKU P/N | 726717- B21 | 726718- B21 | 759934- B21 | 726719- B21 | 728629- B21 | 726720- B21 | 726722- B21 | 726724- B21 |
| DIMM Rank | Single Rank | Single Rank | Dual Rank | Dual Rank | Dual Rank | Dual Rank | Quad Rank | Quad Rank |
| DIMM Capacity | 4GB | 8GB | 8GB | 16GB | 32GB | 16GB | 32GB | 64GB |
| Voltage | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V | Std Voltage 1.2V |
| DRAM Depth [bit] | 512M | 1G | 512M | 1G | 1G | 2G | 2G | 2G |
| DRAM Width [bit] | x8 | x4 | x8 | x4 | х4 | x4 | x4 | x4 |
| DRAM Density | 4Gb | 4Gb | 4Gb | 4Gb | 4Gb | 8Gb | 8Gb | 8Gb |
| CAS Latency | 15-15-15 | 15-15-15 | 15-15-15 | 15-15-15 | 15-15-15 | 15-15-15 | 15-15-15 | 15-15-15 |
| DIMM Native Speed (MT/s) | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 |
| SLOTS THAT CAN BE | POPULATED | | | | | | | |
| 16 slot servers | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| MAXIMUM CAPACITY (GB) | | | | | | | | |
| | 64 | 128 | 128 | 256 | 512 | 256 | 512 | 1024 |
| POPULATED DIMM SP | POPULATED DIMM SPEED (MT/s) | | | | | | | |

| 1 DIMM Per Channel | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 |
|--------------------|------|------|------|------|------|------|------|------|
| 2 DIMM Per Channel | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 | 2133 |
| 3 DIMM Per Channel | n/a |

NOTE: DL160 has 2 DIMMs per channel and hence 3 DIMMs per channel memory speeds are not applicable on DL160.

DIMM slot and configuration diagram

DIMM slot and configuration diagrams

Basic memory slot & population diagram

- Population order; start with "A" first, "B" second, "C" third, etc.
- When one processor is installed, install DIMMs in sequential alphabetic order: A, B, C, D, E, F.
- When two processors are installed, install DIMMs in sequential alphabetic order: CPU1-A, CPU2-A,CPU1-B,CPU1-B,CPU1-C, CP2-C.

CPU #1 IS PROCESSOR ON RIGHT - LOOKING FROM FRONT OF SERVER

| CPU 1 | | | | CPU 2 | | | |
|--------|--------|------------------|--------|------------------|----------|--|--|
| | Slot # | Population order | Slot # | Population order | | | |
| Chnl 3 | 1 | С | 1 | С | Chnl3 | | |
| | 2 | G | 2 | G | | | |
| | | | | | | | |
| | | CPU 1 | | CPU 2 | | | |
| | Slot # | Population order | Slot # | Population order | | | |
| Chnl 4 | 3 | D | 4 | D | Chnl 4 | | |
| | 4 | Н | 5 | Н | | | |
| | | CPU 1 | | CPU 2 | | | |
| | 01 | | Cl | T | | | |
| | Slot # | Population order | Slot # | Population order | , | | |
| Chnl 2 | 5 | F | 7 | F | Chnl 2 | | |
| | 6 | В | 8 | В | | | |
| | | CDU 4 | | CPU 2 | | | |
| | T - | CPU 1 | | | | | |
| | Slot # | Population order | Slot # | Population order | | | |
| Chnl 1 | 7 | Е | 10 | Е | Chnl 1 | | |
| | 8 | А | 11 | А | | | |

Memory Speed by Processor Model

| Processor Models | Supported Memory Speeds |
|--|-------------------------|
| E5-2609v3, E5-2603v3 | 1600MT/s |
| E5-2640v3, E5-2630v3, E5-2620v3, E5-2630Lv3, E5-2623v3 | 1866MT/s |
| E5-2660v3, E5-2650v3, E5-2650Lv3 | 2133MT/s |
| E5-2609v4, E5-2603v4 | 1866MT/s |
| E5-2630Lv4, E5-2620v4, E5-2623v4, E5-2640v4, E5-2630v4 | 2133MT/s |
| E5-2650Lv4, E5-2660v4, E5-2650v4, E5-2680v4, E5-2695v4, E5-2683v4 | 2400MT/s |

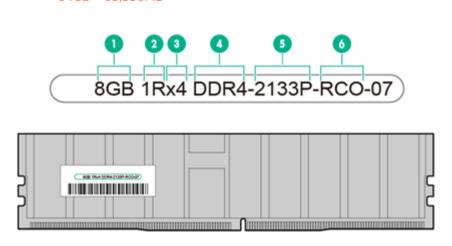
Standard and Maximum Memory Capacity (Preconfigured Models)

| Pre Configured Models | Standard Memory | Maximum Memory Plus Optional Memory | Standard Memory Replaced with Optional Memory |
|-----------------------|-----------------|--|---|
| E5-2620v4 | 16GB (1x16GB) | 496GB (15x32GB, 1x16GB) | 1024GB (16x64GB) |
| E5-2609v3 | 16GB (2x8GB) | 464GB (14x32GB, 2x8GB) | 1024GB (16x64GB) |
| E5-2603v4, E5-2603v3 | 8GB (1x8GB) | 488GB (15x32GB, 1x8GB) | 1024GB (16x64GB) |

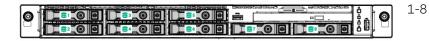
DDR4 memory options part number decoder

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

- 2GB = 2,048MB
- 4GB = 4,096MB
- 8GB = 8,192MB
- 16GB = 16,384MB
- 32GB = 32,768MB
- 64GB = 65,536MB



Storage



8 x SFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays



4 x LFF SATA/SAS/SSD Hot Pluggable Hard Drives Bays

| System Unit | Dimensions | 8 SFF - 1.7 x 17.1 x 23.9 inches (4.29 x 43.46 x 60.76 cm) | | |
|-------------|--------------------------|--|---|--|
| | (H x W x D) | 4 LFF - 1.7 x 17.1 x 23.9 | 9 inches (4.29 x 43.46 x 60.76 cm) | |
| | Weight (approximate) | Maximum: (all hard drives, power supply, and processor installed) | 33.04 lb (15kg) | |
| | | Minimum: (one hard drive, power supply, and processor installed) | 22.03 lb (10kg) | |
| | Input Requirements | Rated Line Voltage | 100 to 240 VAC | |
| | (per power supply) | Rated Input Current | For 550W Power Supply: | |
| | | | 6.7 A (at 100 VAC) | |
| | | | 3.3 A (at 100 VAC) | |
| | | Rated Input Frequency | 47 to 63 Hz | |
| | | Rated Input Power | For 550 W Power Supply: | |
| | | | < 670 W (at 100 VAC) | |
| | | | < 660 W (at 200 VAC) | |
| | BTU Rating | Maximum | For 550 W Power Supply: | |
| | | | 2201 BTU/hr (at 100 VAC) | |
| | | | 2153 BTU/hr (at 200 VAC) | |
| | Power Specifications | To review typical system power ratings use the Power Advisor which is available via the online tool located at URL: http://www.hpe.com/info/hppoweradvisor - Click on the system of interest. Example: DL160 Gen9- Follow the instructions of the next screens. | | |
| | Power Supply Output | Power Supply: Rated Steady-State For 550 W Power Supply: 550 W (at 100 VAC) | | |
| | . one. capp., carpa. | | | |
| | | | 550 W (at 200 VAC) | |
| | | Maximum Peak Power | For 550 W Power Supply: | |
| | | | 550 W (at 100 VAC) | |
| | | | 550 W (at 200 VAC) | |
| | System Inlet Temperature | Standard Operating Support | 10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F). | |
| | | Extended Ambient Operating Support | For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of | |

1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m

(10,000 ft). The approved hardware

configurations for this system are listed at the URI:

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

For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL:

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

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

NOTE: Supports A3 and A4 extended ambient.

Non-operating -30° to 60°C (-22° to 140°F). Maximum rate of

change is 20°C/hr (36°F/hr).

Relative Humidity Operating Minimum to be the higher (more moisture) of -

12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C

(75.2°F) dew point or 90% relative humidity.

5% to 95% relative humidity (Rh), 38.7°C Non-operating (non-condensing)

(101.7°F) maximum wet bulb temperature, non-

condensing.

Altitude Operating 3048 m (10,000 ft). This value may be limited by

> the type and number of options installed. Maximum allowable altitude change rate is 457

m/min (1500 ft/min).

Non-operating 9144 m (30,000 ft). Maximum allowable altitude

change rate is 457 m/min (1500 ft/min).

Acoustic Noise Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels

(LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74)

and declared in accordance with ISO 9296 (ECMA 109).

Idle

LWAd Entry 5.1 B

Base 5.2 B

Performance 5.0 B

LpAm Entry 34.2 dBA

Base 35.9 dBA

Performance 34.9 dBA

Operating

LWAd Entry 5.3 B

Base 5.3 B

Performance 5.6 B

LpAm Entry 36.3 dBA

Base 36.2 dBA

Performance 39.7 dBA

Emissions Classification

(EMC)

FCC Rating Class A

Normative Standards CISPR 22; EN55022; EN55024; FCC CFR 47, Pt

> 15; ICES-003; CNS13438; GB9254; K22; K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC

60950-1

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

Array B140i

Controller

HPE Dynamic Smart Number of PCI links

Four

PCI link rate

4Gb/s

Storage protocol support SAS/SATA peak data

SATA

transfer rate

6Gb/s

Number of SAS/SATA links

10 links

SAS/SATA connectivity

2x4 connectors; 2x1 connectors

Expander support

No

Drives supported (max)

Up to 10 Internal Drives

RAID support

0, 1, 10, 5 SATA

Software management

HPE SSA, SMH, SIM

Warranty

Server warranty

HPE Secure Encryption

license

Not Supported

HPE SmartCache License

HPE Smart Storage

Not Supported

Administrator

Supported

Port 361i Adapter

HPE Embedded Dual Network Interface

10Base-T/100Base-TX/1000Base-TX

Compatibility IEEE 802.3 10Base-T

> IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX IEEE 1588, IEEE 802.1AS

IEEE 802.3az - Energy Efficient Ethernet (EEE)

Data Transfer Method

Controller

PCI Express v 2.0, 5.0 GT/s, two lanes (x2)

Network Transfer Rate 10Base-T (Half-Duplex)

Intel I350 Powerville

10Base-T (Full-Duplex) 20 Mb/s per port, 80 Mb/s combined

100Base-TX (Half-

100 Mb/s per port, 400 Mb/s combined

10 Mb/s per port, 40 Mb/s combined

Duplex)

100Base-TX (Full-Duplex) 200 Mb/s per port, 800 Mb/s combined 1000Base-TX (Half and 1000 Mb/s per port, 4000 Mb/s combined

Full-Duplex)

Two RJ-45 Connector

Cable Support 10 Base-T Categories 3, 4 or 5 UTP; up to 328 ft (100 m)

> Category 5 or higher UTP; up to 328 ft (100 m) 10/100/1000 Base-TX

Environmentfriendly Products and Approach

Recycling

End-of-life Management and 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.

http://www.hpe.com/recycle

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.

http://www.hpe.com/recycle

Summary of Changes

| Date | Version History | Action | Description of Change |
|-------------|-----------------------|---------|---|
| 7-Aug-2017 | From Version 26 to 27 | Added | Added new Solid State Drives offering to the HPE Drives section. |
| 11-Jul-2017 | From Version 25 to 26 | Changed | Operating Systems and Virtualization Software Support for ProLiant Servers section was revised. |
| 5-Jun-2017 | From Version 24 to 25 | Added | Added new Solid State Drives offering to the HPE Drives section. New HPE Networking options were added. |
| 8-May-2017 | From Version 23 to 24 | Added | Added support for ClearOS in Operating Systems and Virtualization Software Support for ProLiant Servers and Optional Features sections. |
| | | Changed | HPE Drives was revised. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 27-Mar-2017 | From Version 22 to 23 | Added | Added new Hard Drives. |
| 17-Feb-2017 | From Version 21 to 22 | Changed | HPE Memory section under Core Options was revised. |
| 13-Feb-2017 | From Version 20 to 21 | Added | Added new HDD and SSD offering to the HPE Drives section. |
| | | Changed | HPE InfiniBand, HPE Converged Infrastructure Management Software, and HPE USB and SD Options were revised. |
| | | Removed | SKUs 769503-B21, 769504-B21, and 769505-B21 were removed from the Pre-configured Models section. |
| | | | Obsolete SKUs were removed from the HPE Processors section. |
| 28-Nov-2016 | From Version 19 to 20 | Added | Added new Hard Drives offering. |
| | | Changed | Maximum Internal Storage and HPE Tape Backup were revised. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 28-Oct-2016 | From Version 18 to 19 | Removed | Obsolete Hard Drives were removed. |
| 26-Sep-2016 | From Version 17 to 18 | Added | Added new 10TB SATA LFF hard drives offering. |
| | | Changed | Maximum Internal Storage, HPE Storage Options, and HPE Disk Storage Systems were revised. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 10-Jun-2016 | From Version 16 to 17 | Removed | HPE Dual 32GB microSD Enterprise Midline USB Kit was removed from the QuickSpecs. |
| 6-Jun-2016 | From Version 15 to 16 | Added | Added new HDD offering to the HPE Drives section. Added new options to the HPE PCIe Workload Accelerator Options, HPE Disk Backup, and HPE Disk Storage Systems. |
| | | Changed | Memory, Memory Protection, Interfaces, and HPE Converged Infrastructure Management Software were revised. |
| 6-May-2016 | From Version 14 to 15 | Changed | Maximum Internal Storage, Upgradeability, Memory, and Technical Specifications sections were revised. |
| 8-Apr-2016 | From Version 13 to 14 | Changed | HPE Processors section was revised. |
| 31-Mar-2016 | From Version 12 to 13 | Added | Added new HPE Smart Memory 2400 MHz memory, Intel Xeon E5-2600v4 processor support, new HPE Trusted Platform Module (TPM) 2.0, new 900W AC/ 240VDC power supply, and new HDD offerings. |
| | | Changed | Maximum Internal Storage, Power Supplies, Upgradeability, Embedded Management, Security, Service and Support, Preconfigured Models, and Memory sections were revised. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 16-Feb-2016 | From Version 11 to 12 | Added | New HDD offering was added to HPE Drives. |
| | | Changed | HPE Power Supplies, HPE Data Center Racks, and HPE Power |

Summary of Changes

| | | | Distribution Units (PDUs) were revised. |
|-------------|-----------------------|---------|---|
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 17-Dec-2015 | From Version 10 to 11 | Added | Smart Buy models were added to the NA version. |
| 1-Dec-2015 | From Version 9 to 10 | Added | New HDD offering was added to HPE Drives. |
| | | | New options added to HPE PCIe Workload Accelerator Options, HPE Disk Backup, and HPE Disk Storage Systems. |
| | | Changed | On System Management Chipset, Maximum Internal Storage, Embedded Management, and Server utilities were revised. |
| | | | Product images were updated. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 28-Sep-2015 | From Version 8 to 9 | Added | Added new 6Gb SATA Solid State Drives. Added new HP OneView management software. |
| | | Removed | Obsolete SKUs were removed from the QuickSpecs. |
| 17-Aug-2015 | From Version 7 to 8 | Added | New Solid Stated Drives offering was added to Core Options. |
| | | Removed | Obsolete SKUs were removed from QuickSpecs. |
| 1-Jun-2015 | From Version 6 to 7 | Added | New Hard Drives were added to Core Options. HP OneView LTUs were added to HP Converged Infrastructure Management Software. New RDX+ external backup options were added. |
| | | Changed | Maximum Internal Storage was revised. |
| | | Removed | Obsolete SKUs were removed from QuickSpecs. |
| 30-Mar-2015 | From Version 5 to 6 | Added | New Hard Drives offering. Optional Software added to HP Storage Controllers. |
| | | Changed | HP Memory, HP Power Supplies, HP Storage Controllers, and HP Disk Storage Systems were revised. |
| 9-Feb-2015 | From Version 4 to 5 | Added | Added Network controller, new HP Drives, and new G4 UPS models. |
| | | Changed | HP Drives, HP Tape Backup, HP Disk Backup, HP Rack Mount Consoles, KVM Switches, and Keyboards, HP Uninterruptible Power Systems (UPS), HP Networking, and HP Power Distribution Units (PDUs) sections were revised. |
| 1-Dec-2014 | From Version 3 to 4 | Changed | Changes made throughout the entire QuickSpecs. |
| 13-Oct-2014 | From Version 2 to 3 | Added | 6G SATA Enterprise Value G1 Solid State Drives were added to the Core Option section. |
| | | | HPE PCIe Workload Accelerator Options and HPE USB and SD options were added to the Additional Options section. |
| | | Changed | Standard Features and Optional Features sections were revised. |
| 19-Sep-2014 | From Version 1 to 2 | Changed | Changes made throughout the entire QuickSpecs. |



Summary of Changes



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

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