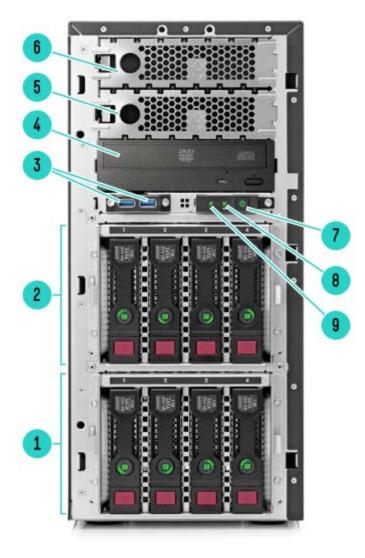
QuickSpecs

Overview

HPE ProLiant ML150 Generation 9 (Gen9)

The HPE ProLiant ML150 Gen9 Server delivers the essential mix of performance, price and expandability to fit the needs of growing budget conscious businesses. Designed as a dual-socket tower server, it is a right size tower with performance and expandability. With expansion options, it allows you to grow as needed with a low initial capital outlay. Covering a wide range of applications and workloads and addressing our customers from sophisticated SMB to large enterprise class server environments.



Front View details for Tower (LFF)

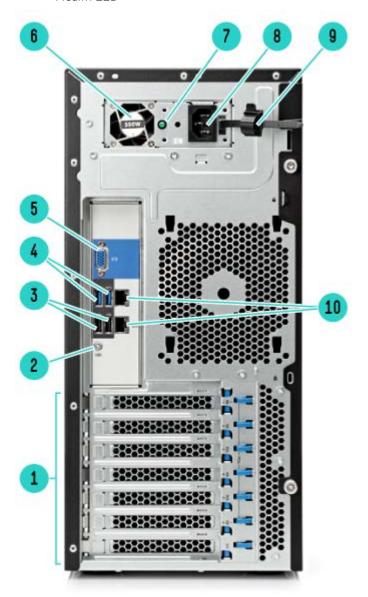
- 1 Drive Cage (4 LFF shown) Alternative server choice would offer 8 SFF
- 3 USB 3.0 (2)
- Media bay, blank shown*
 NOTE: Optional choices: SATA 9.5mm DVD-ROM or DVD RW Optical Drive, Tape Drive, or LFF.
 NOTE: When populating 10 LFF, not able to install Tape Drive or Optical Drive. Possible
- 2 Drive Cage (4 LFF shown) Alternative server choice would offer 8 SFF
- 4 Media bay, Optional SATA 9.5mm DVD-ROM shown
- Media bay, blank shown*
 NOTE: Optional choices: SATA 9.5mm DVD-ROM or DVD RW Optical Drive, Tape Drive, or LFF.



Overview

Configurations: 1) 8LFF +1 ODD + 1 Tape Drive (Full/Half), or 2) 9LFF + 1 ODD, or 3) 9LFF + 1 Tape Drive (Full/Half).

- 7 Power On/Standby button and system power LED button
- 9 Health LED



NOTE: When populating 10 LFF, not able to install Tape Drive or Optical Drive. Possible Configurations: 1) 8LFF +1 ODD + 1 Tape Drive (Full/Half), or 2) 9LFF + 1 ODD, or 3) 9LFF + 1 Tape Drive (Full/Half).

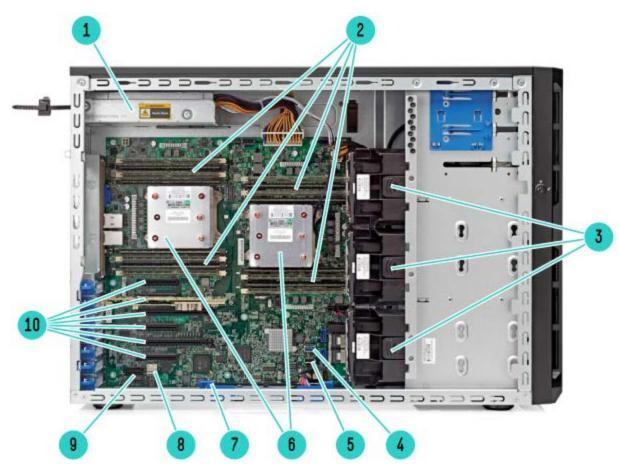
8 NIC status

Rear View (Tower Model)

- 1 PCI Slots (Slots 1-6) Slot 3 and 5 can support Optional GPU
- 3 USB 2.0 (2)
- 5 Video Connector
- 7 Power supply Power LED
- 9 Cable tie back

- 2 Unit ID LED
- 4 USB 3.0 (2)
- 6 HPE 550W Power Supply
- 8 Power Supply Power connection
- 10 Network RJ-45 Ports (2)

Overview



Internal View (Tower Model)

- 1 Power Supply
- 3 System Fans: Three fans for 2P SKU
- 5 Internal USB 2.0 connector
- 7 Gen9 Smart Storage Battery Holder Kit
- 9 Dedicated iLO module slot (optional)

- 2 Sixteen (16) DDR4 DIMM slots. Shown fully populated in 16 slots (8 per processor)
- 4 Internal USB 3.0 connector
- 6 Two (2) processors and heatsinks with HPE Smart Socket Guide (Second Processor is Optional)
- 8 MicroSD slot
- 10 Six (6) PCle expansion slots

What's New

• Intel Xeon E5-2600 v4 Processor (up to 120W, up to 18 cores support)

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

ProcessorOne 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
E5-2609v3	1.9GHz	6	15MB	85W	6.4GT/s	1600
E5-2620v3	2.4GHz	6	15MB	85W	8.0GT/s	1866
E5-2603v3	1.6GHz	6	15MB	85W	6.4GT/s	1600
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
E5-2620v4	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
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

NOTE: Up to 2 processors supported. Mixing different processor models is not supported.

NOTE: Recommend to select 900W for 2P config or check power advisor for power consumption for the customer usage case.

Cache Memory

One of the following depending on model

15MB (1 x 15MB) Level 3 cache **NOTE:** For Six-core processors.
20MB (1 x 20MB) Level 3 cache **NOTE:** For Eight-core processors.
25MB (1 x 25MB) Level 3 cache **NOTE:** For Ten-core processors.

30MB (1 x 30MB) Level 3 cache **NOTE:** For Twelve-core processors. 35MB (1 x 35MB) Level 3 cache **NOTE:** For Fourteen-core processors.

Chipset

Intel® C610 Series Chipset

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

Memory

Type:

HPE SmartMemory

DDR4 Registered (RDIMM) or Load Reduced (LRDIMM)

DIMM Slots Available 16

Maximum Capacity

512GB (16 x 32GB LRDIMM @2400MHz)

(LRDIMM)

Maximum Capacity

512GB (16 x 32GB RDIMM @2400MHz)

(RDIMM)

NOTE: This server does not support mixing LRDIMMs or RDIMMs. Attempting to mix any combination

of these DIMMs can cause the server to halt during BIOS installation.

Memory Protection Advanced ECC

Advanced ECC uses single device data correction to detect and correct

single and all multibit error that occurs within a single DRAM chip.

Online spare

Memory online spare mode detects a rank that is degrading and switches

operation to the spare rank.

Network Controller Broadcom 5717 Dual-port 1Gb

Expansion Slots

Expansio n Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
6	PCIe 3.0	x8	x8		Full length/full height	For processor 1
5	PCIe 3.0	x16	x16		Full length/full height	For processor 1
4	PCIe 3.0	x8	x8		Half-length/full height	For processor 1
3	PCle 3.0	x16	x16		Full-height, full-length slot	For processor 2
2	PCIe 3.0	x8	x8		Half-length/full height	For processor 1
1	PCIe 3.0	x8	x8		Half-length/full height	For processor 2

NOTE: Bus number - Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number.

NOTE: Six total expansion PCle 3.0 slots. Two PCle 3.0 x16 (x16 speed); Four PCle 3.0 x 8 (x8 speed).

Expansion Slots #	Technolog y	Bus Width	Connector Width	Bus Number	Device Number	Form Factor	Notes
7	HPE ML Gen9	x1	x1			Dedicate for ML Series	
	Dedicated						
	iLO Port						
	Kit						

Storage Controller Entry Models

depending on

model

HPE Dynamic Smart Array B140i Controller One of the following NOTE: B140i can't mix with any standup internal controller.

Base Models HPE Dynamic Smart Array B140i Controller

NOTE: B140i can't mix with any standup internal controller.

Performance Models HPE H240 FIO Smart Host Bus Adapter

Internal Storage Devices

Optical Drive

Optional SATA 9.5mm DVD-ROM Optical Drive Optional SATA 9.5mm DVD RW Optical Drive

NOTE: Optical is optional in entry, base and performance models.

One of the following depending on model

NOTE: ML150 Gen9 Slim ODD Enablement Kit (P/N: 784603-B21) is required for any DVD options.

Hard Drives Hard Drive Bays

None ship standard

Up to 10 Non-hot plug SATA 3.5" drives **NOTE:** Mixing drive cage types is not allowed.

NOTE: All Pre-configured Models come populated with hard drive blanks installed. The 4LFF configurations includes 2 blanks and 8SFF includes 6 blanks. Additional hard drive blanks can be ordered using either P/N 654963-B21 for the HPE LFF HDD Blank Kit or P/N 654961-B21 for the HPE SFF HDD Blank Kit. These part numbers for single HDD blanks below are also provided should you require replacement HDD blanks for your server.

NOTE: NHP SATA is limited to B140i controller.

NOTE: When populate 10 LFF, not able to install any Tape Drive and Optical Drive. Possible Configurations: 1) 8LFF +1 ODD + 1 Tape Drive (Full/Half), or 2) 9LFF + 1 ODD, or 3) 9LFF + 1 Tape Drive (Full/Half). **NOTE:** Must select two 4LFF NHP drive cage and 10LFF enablement kit if customer wants to support 10 LFF drives.

4 Hot plug LFF SAS/SATA HDD bays; upgradable to 8 8 Hot plug SFF SAS/SATA HDD bays; upgradable to 16

NOTE: 16SFF is limited to P840 controller. **NOTE:** 10LFF is limited to H140i controller

NOTE: H240 8LFF/8SFF require 2 cable kit P/N: 784606-B21. **NOTE:** P840 16SFF require 2 cable kit P/N: 784608-B21.

Maximum Internal		CAPACITY	CONFIGURATION
Storage	Hot Plug LFF SAS	80TB	8x10TB
One of the following	Hot Plug LFF SATA	80TB	8x10TB
depending on model	Hot Plug SFF SAS	32TB	16x2TB
Hot Non	Hot Plug SFF SATA	32TB	16x2TB
	Non Hot Plug LFF SATA	40TB	10x4TB
	Hot Plug LFF SAS SSD	12.8TB	8x1.6TB
	Hot Plug LFF SATA SSD	30.72TB	8x3.84TB
	Hot Plug SFF SAS SSD	30.72TB	16x1.92TB
	Hot Plug SFF SATA SSD	61.44TB	16x3.84TB

Power Supply

HPE 550W FIO Power Supply

depending on model

One of the following HPE 900W AC 240V DC Redundant Power Supply

NOTE: Each Redundant Power Supply Backplane can support up to two (2) power input modules. Non-redundant configurations with a single power input module installed can provide up to 900W (200 – 240VAC) and up to 550W (100 – 127VAC) of power. Redundant configurations with two power input modules installed can provide up to 800W (200 – 240VAC) and up to 550W (100 – 127VAC) of power.

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

Redundant

Standard Features

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.

Rack Options

HPE T/R CONV TRAY UNIVERSAL KIT

One of the following depending on model

System Fans One of the following 1P model depending on model

2 fans NΑ

NOTE: Two (2) Non-hot plug, non-redundant fans ship as standard.

Non-redundant Redundant

Non-redundant

2P model 3 fans NA

NOTE: Third fan is shipped with 2nd CPU Kit. Third fan is only required in 2P configurations.

Interfaces Video

1 (rear)

2 Network RJ-45 (Ethernet)

HPE iLO Remote Management **2GB NAND**

Network Port

NOTE: Dedicated Port for iLO is Optional. Micro SD Slot 1 (internal)

NOTE: The Micro-SD slot is not a hot-pluggable device. Customers should not attempt to plug a

Micro-SD card into the Micro-SD slot while the server is powered.

USB 3.0 5 (2 rear, 1 internal, 2 front)

USB 2.0 3 (2 rear, 1 internal)

and Virtualization **Software Support** for ProLiant

Operating Systems Microsoft Windows Server

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

NOTE: For more information on Hewlett Packard Enterprise Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server, please visit our Support Matrix at: http://www.hp.com/go/ossupport and our driver download page http://h20566.www2.hpe.com/hpsc/swd/public/readIndex?sp4ts.oid=7481832

Upgradeability

Servers

Upgradeable to 2 processors (36 Cores)

NOTE: Total 6, 8, 10, 12, 14, 16, 18 cores.

Up to 16 SFF Hard Drive Bays; Or 10 LFF Hard Drive Bays

Up to 16 DIMM slots Redundant Power Supply Tower to rack conversion Optional optical drive (up to 1)

NOTE: When populate 10 LFF, not able to install Optical Drive. Possible Configurations: 1) 8LFF +1 ODD + 1 Tape Drive (Full/Half), or 2) 9LFF + 1 ODD, or 3) 9LFF + 1 Tape Drive (Full/Half).

Industry Standard ACPI 2.0b Compliant Compliance

PCIe 3.0 Compliant **PXE Support**

WOL Support Novell Certified IPMI 2.0, SMASH CLP, DCMI 1.0 compliant Microsoft® Logo certifications USB 3.0 Support **SMBIOS 2.7.1** ASHRAE A3

Graphics

Integrated Matrox G200 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
------	--------

Tower or Rack (5U)

Embedded Management

Lights-Out (HPE iLO)

HPE Integrated Monitor your servers for ongoing management, service alerting, reporting and remote management with HPE iLO. Not available on ML10 Gen9. 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

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

Provisioning Provisioning. Learn more

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

Embedded

The Hewlett Packard Enterprise embedded remote support, when used with Remote Support Insight 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) and smart components. 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**

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

PowerShell 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, Care Pack or contractual support agreement with Hewlett Packard Enterprise, 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.

NOTE: The Service Pack for ProLiant (which includes HPE SUM) can be downloaded from

http://www.hp.com/go/spp/download. More information can be

found: http://www.hp.com/go/SmartUpdate, http://www.hp.com/go/spp and

http://www.hp.com/go/hpsum

Security

Serial interface control Power switch security Administrator's password TPM 1.2 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 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.

Clusters

High Performance HPE Insight Cluster Management Utility (CMU) is a Hewlett Packard Enterprise licensed and supported suite of tools that are used for lifecycle management of hyperscale clusters of Linux ProLiant systems. CMU includes software for the centralized provisioning, management and monitoring of nodes. CMU makes the administration of clusters user friendly, efficient, and effective. http://www.hp.com/go/cmu. 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. 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

Optional Features

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.

(SCE)

One Config Simple SCE is a guided self-service tool to help sales and non-technical people provide customers with initial configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in your existing ordering processes. If you require "custom" rack configuration or configuration for products not available in SCE, please contact Hewlett Packard Enterprise Customer Business Center or an Authorized Partner for assistance. https://h22174.www2.hp.com/SimplifiedConfig/Index.

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% reduction in down time, near 100% diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7monitoring, prefailure 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. 1- IDC 2 - HP CSC reports 2014 - 2015

Recommended Support

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.

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

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 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).

Service and Support

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.

HPE Education Services

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

HPE Support Center

The HPE Support Center is a personalized online support portal with access to information, tools and experts to support 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.

*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 hard drive blanks installed. The 4LFF configurations includes 2 blanks and 8SFF includes 6 blanks. Additional hard drive blanks can be ordered using either P/N 666986-B21 for the HP LFF HDD Blank Kit or P/N 666987-B21 for the HP SFF HDD Blank Kit. These part numbers for single HDD blanks below are also provided should you require replacement HDD blanks for your server.

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	Models	Base I	Models			
[SKU Number]	776274-001	834606-001	776275-001	834607-001			
Model Name	HP ProLiant ML150 Gen9 E5-2603v3 4GB B140i Non-hot Plug 4LFF SATA Entry 550W PS Server	HPE ProLiant ML150 Gen9 E5-2603v4 8GB- R B140i NHP 4LFF SATA 550W Entry Svr	HP ProLiant ML150 Gen9 E5-2609v3 8GB B140i Hot Plug 4LFF SATA Base 550W PS Server	HPE ProLiant ML150 Gen9 E5-2609v4 8GB- R B140i Hot Plug 4LFF SATA 550W Base Svr			
Processor	Intel® Xeon® E5- 2603v3	Intel® Xeon® E5- 2603v4	Intel® Xeon® E5- 2609v3	Intel® Xeon® E5- 2609v4			
Number of Processors		(One				
Memory	4GB (1x4GB Registered DIMMs, 2133 MHz)	8GB (1x8GB Registered DIMMs, 2400 MHz)	8GB (1x8GB Registered DIMMs, 2133 MHz)	8GB (1x8GB Registered DIMMs, 2400 MHz)			
Network Controller	Broadcom 5717 Dual-port 1GbE						
Storage Controller		HPE Dynamic Smart Array B140i					
Hard Drive		None shi	ip standard				
Internal Storage	4 LFF HDD Bay	/s (Non Hot Plug)	4 LFF H	DD Bays			
Optical Drive Bay		1; (Optional: DV	D-ROM, DVD-RW)				
Optical Drive	Opt	ional Slim Optical Bay (SA	TA DVD-RW/ROM Optical	Drive)			
PCI-Express Slots		6 PC	le slots				
Power Supply		(1) HPE 550W FIO Power Supply					
Fans	2 non hot plug, non-redundant fans						
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Essentials (optional), iLO Scale- out (optional only for DL), iLO Advanced (optional)						
Form Factor		Tower (5U)					
Warranty	Server Warranty includ	des 3-Year Parts, 1-Year La res _l	abor, 1-Year Onsite suppo oonse.	rt with next business day			

Performance Models

Pre-configured Models

[SKU Number]	834608-001
Model Name	HPE ProLiant ML150 Gen9 E5-2620v4 16GB-R H240 Hot Plug 8SFF SAS 900W Perf Svr
Processor	Intel® Xeon® E5-2620v4
Number of Processors	One
Memory	16GB (1x16GB Registered DIMMs, 2400 MHz)
Network Controller	Broadcom 5717 Dual-port 1GbE
Storage Controller	HPE H240 Smart Host Bus Adapter NOTE: HPE ML150 Gen9 PCI BAFFLE Kit (779861-B21) is included while order Performance Model with H240 Storage Controller.
Hard Drive	None ship standard
Internal Storage	8 SFF HDD Bays
Optical Drive Bay	1; (Optional: DVD-ROM, DVD-RW)
Optical Drive	Optional Slim Optical Bay (SATA DVD-RW/ROM Optical Drive)
PCI-Express Slots	6 PCIe slots
Power Supply	900W AC 240VDC Power Supply
Fans	2 non hot plug, non-redundant fans
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Essentials (optional), iLO Scaleout (optional only for DL), iLO Advanced (optional)
Form Factor	Tower (5U)
Warranty	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.

Smart Buy Models

		E5-	2600v4 Series Smart	Buys	
[SKU Number]	834616-S01	860120-S01	860119-S01	834619-S01	834620-S01
Model Name	HPE ProLiant ML150 Gen9 E5-2609v4 US Srvr/S-Buy	HPE ProLiant ML150 Gen9 E5-2609v4 US Srvr/S-Buy	HPE ProLiant ML150 Gen9 E5- 2620v4 US Srvr/S- Buy	HPE ProLiant ML150 Gen9 E5- 2620v4 US Svr/S- Buy	HPE ProLiant ML150 Gen9 E5-2640v4 US Svr/S-Buy
Processor	Intel® Xeon®	E5-2609v4	Intel® Xeon® E5- 2620v4	Intel® Xeon® E5- 2620v4	Intel® Xeon® E5- 2640v4
Number of Processors		One		Two)
Memory	8GB (1x8GB Registered DIMMs, 2400 MHz) NOTE: DIMMs will operate at 1866MHz with this processor.		8GB (1x8GB Registered DIMMs, 2400 MHz) NOTE: DIMMs will operate at 2133MHz with this processor.	16GB (2x8GB Registered DIMMs, 2400 MHz) NOTE: DIMMs will operate at 2133MHz with this processor.	32GB (2x16GB Registered DIMMs, 2400MHz) NOTE: DIMMs will operate at 2133MHz with this processor.
Network Controller		Broa	adcom 5717 Dual-port	1GbE	
Storage Controller	HPE [ynamic Smart Arra	y B140i	HPE H240 Smart H	lost Bus Adapter
Hard Drive	None ship standard	1TB 6G SATA 7.2k MDL SC HDD		None ship standard	
Internal Storage		4 LFF HDD Bays		8 SFF HD	D Bays
Optical Drive		None includ	ded (Optional: DVD-R0	OM, DVD-RW)	
PCI-Express Slots			6 PCI	e slots	
Power Supply	One (1) 550W Non Redundant Power Supply	Two (2) 900W Redundant Power Supplies One (1) 900W Redundant Ca Power Supply Kit			·
Fans	2 non h	ot plug, non-redund	dant fans	3 non hot plug, re	edundant fans
Management	Standard: iLO Management Optional: iLO Essentials, iLO Advanced, Insight Control				
Form Factor	Tower (5U)				
Warranty	3-Year Pa	rts, 1-Year Labor, 1	-Year Onsite support v	vith next business day ı	response.

Smart Buy Models

	E5-2600v3 Series Smart Buys
[SKU Number]	844934-S01
Model Name	HP ProLiant ML150 Gen9 E5-2620v3 LFF US Svr/S-Buy
Processor	Intel® Xeon® E5-2620v3
Number of Processors	One
Memory	8GB (1x8GB Registered DIMMs, 21333MHz) NOTE: DIMMs will operate at 1866MHz with this processor.
Network Controller	Broadcom 5717 Dual-port 1GbE
Storage Controller	HPE Dynamic Smart Array B140i
Hard Drive	None ship standard
Internal Storage	4 LFF NHP HDD Bays
Optical Drive	None included (Optional: DVD-ROM, DVD-RW)
PCI-Express Slots	6 PCIe slots
Power Supply	One (1) 900W Redundant Capable Power Supply Kit
Fans	2 non hot plug, non-redundant fans
Management	Standard: iLO Management Optional: iLO Essentials, iLO Advanced, Insight Control
Form Factor	Tower (5U)
Warranty	3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.

Configuration Information - Factory Integrated Models

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

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

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

CTO Server	HP ProLiant ML150 Gen9 Non-hot Plug 4LFF Configure-to-order Server	HP ProLiant ML150 Gen9 Hot Plug 4LFF Configure-to-order Server	HP ProLiant ML150 Gen9 Hot Plug 8SFF Configure-to- order Server		
SKU Number	767062-B21	767063-B21	767064-B21		
Processor	2 (d	optional) x HPE Smart Socket Guide	2		
DIMM Slots	16 DIMM slots for RDIMM, LRDIMM DDR4 Memory				
Storage Controller	HPE Dynamic Smart Array B140i				
PCle		6 Standard (4FH/HL, 2FH/FL)			
Drive Cage	4LFF Non Hot Plug 4LFF Hot Plug 8SFF Hot Plug				
Network Controller	Broadcom 5717 Dual-port 1GbE				
Fans	2 non hot plug, non-redundant fans				
Management	iLO Management (standard), Intelligent Provisioning (standard)				
USB		2 front, 2 internal, 4 rear			

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

HPE Processors	E5-2600v4 series Processors	
	HPE ML150 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) FIO Processor Kit	828355-L21
	HPE ML150 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) FIO Processor Kit	828356-L21
	HPE ML150 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) FIO Processor Kit	828357-L21
	HPE ML150 Gen9 Intel® Xeon® E5-2650Lv4 (1.71GHz/14-core/35MB/65W) FIO Processor Kit	828358-L21
	HPE ML150 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) FIO Processor Kit	828361-L21
	HPE ML150 Gen9 Intel® Xeon® E5-2695v4 (2.1GHz/18-core/45MB/120W) FIO Processor Kit	860716-L21
	HPE ML150 Gen9 Intel® Xeon® E5-2683v4 (2.1GHz/16-core/40MB/120W) FIO Processor Kit	860715-L21
	HPE ML150 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) FIO Processor Kit	860714-L21
	HPE ML150 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) FIO Processor Kit	828353-L21

Configuration Information - Factory Integrated Models

HPE ML150 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W) FIO	828359-L21
Processor Kit	
HPE ML150 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) FIO Processor Kit	828360-L21
HPE ML150 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) FIO	828354-L21
Processor Kit	

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

NOTE: Up to 2 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: When v3 Processor is selected, then only PC4-2133P 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 from section below.

NOTE: LRDIMM and RDIMM are distinct 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.hp.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 Online Memory Configuration Tool at: http://www.hp.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
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 Registered Memory Kit	726718-B21
HP 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	759934-B21
HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726719-B21
HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	728629-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
Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series	

HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15 Load Reduced Memory 726720-B21 Kit

HPE Standard Memory for E5-2600v4 Series

HPE Power Supplies

HPE Storage Controllers

Configuration Information - Factory Integrated Models

HPE Cable Options

HP ML150 Gen9 Mini SAS H240 Cable Kit

NOTE: These are standard memory DIMMs with no SmartMemory features.	
HPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Standard Registered Memory Kit	851353-B21
HPE Standard Memory for E5-2600v3 Series	
NOTE: These are standard memory DIMMs with no SmartMemory features.	
HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit	803026-B21
HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit	803028-B21
NOTE: Mixing of power supplies in the same server is not supported. All power supplies the same input voltage, output rating, and efficiency rating. If non-matching power sup installed, you may receive an error message and/or experience operational issues with	plies are
NOTE: Prior to selecting a power supply option, it is highly recommended that you revice configuration in the HP Power Advisor Tool to determine the right size power supply for configuration. The HP Power Advisor is located at: http://www.hp.com/go/hppoweraction .	or your server
HP Entry-Level Power Supplies	
HP 550W FIO Power Supply Kit NOTE: The above power supply is 80Plus Silver-certified with an efficiency rating of up to 89%. Power specifications and technical content for all HPE Server power supplies can be found at: http://www.hp.com/go/proliant/powersupply .	730941-B21
HPE 900W AC 240VDC FIO Power Input Module	828734-B21
NOTE: HPE Power Backplane FIO Kit (828735-B21) is required for this power supply. NOTE: Up to two of these option kits can be installed in one system.	020734-023
HPE 900W AC 240VDC Power Backplane FIO Kit NOTE: Required with HPE 900W AC 240VDC FIO Power Input Module (828734- B21).	828735-B21
HPE Smart Array Controllers	
HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller NOTE: May only be selected if HP ProLiant ML150 Gen9 4LFF CTO Server or HP ProLiant ML150 Gen9 8SFF CTO Server is selected in Step 1. NOTE: Must also select Smart Storage Battery Holder Kit (786710-B21). NOTE: Must also select HP ML150 Gen9 Mini SAS P440/P840 Cable Kit (784608-B21).	761872-B21
NOTE: Must also select one HP ML150 Gen9 PCI Baffle Kit (779861-B21).	
HP Smart Array P840/4GB FBWC 12Gb 2-ports Int FIO SAS Controller NOTE: Required if HP ProLiant ML150 Gen9 8SFF CTO Server is selected in Step 1. NOTE: Must also select Smart Storage Battery Holder Kit (786710-B21). NOTE: Must also select HP ML150 Gen9 Mini SAS P440/P840 Cable Kit (784608-B21).	761874-B21
NOTE: Must also select one HP ML150 Gen9 PCI Baffle Kit (779861-B21).	
HPE Smart Host Bus Adapters	
HP H240 12Gb 2-ports Int FIO Smart Host Bus Adapter NOTE: May only be selected if HP ProLiant ML150 Gen9 4LFF CTO Server or HP ProLiant ML150 Gen9 8SFF CTO Server is selected in Step 1.	761873-B21
NOTE: Must also select one HP ML150 Gen9 Mini SAS H240 Cable Kit (784606-B21) to support the HP ML150 Gen9 4LFF CTO Server or two Cable Kits to support the HP ML150 Gen9 8SFF CTO Server of if adding HP ML150 Gen9 4LFF Hot Plug Drive Cage (725872-B21) to the configuration.	
LIDE Cable Ontions	

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784606-B21

Configuration Information - Factory Integrated Models

HP ML150 Gen9 Mini SAS P440/P840 Cable Kit 784608-B21

Battery Holder

HP ML150 Gen9 Smart Storage Battery Holder Kit 786710-B21

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

BIOS Mode HP Legacy FIO Mode Setting 758959-B22

NOTE: If B140i is the primary controller, then this option cannot be selected. Selecting this option will change the default UEFI BIOS Setting into Legacy BIOS

setting

Controller State HP Mfg FIO Enable HBA Mode 792962-B21

NOTE: May only be selected with H240 FIO Smart Host Bus Adapter.

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

Software Server FIO License

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

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

HPE Unique Options	HP ML150 Gen9 4LFF Hot Plug Drive Cage NOTE: Adding 4LFF Hard Drive Cage allow up to 8FF Drive Bays.	725872-B21
	HP ML150 Gen9 8SFF Hot Plug Drive Cage NOTE: Adding 8SFF Hard Drive backplane allow up to 16SFF Drive Bays.	725874-B21
	HP ML150 Gen9 4LFF Non-hot Plug Drive Cage NOTE: Adding 4LFF Hard Drive Cage allow for up to 8LFF Drive Bays.	779859-B21
	HP ML150 Gen9 PCI Baffle Kit NOTE: Must select when a PCIe card is installed with any Networking, Controllers (SAS, SCSI and Fiber Channel), and Graphic options. NOTE: HPE ML150 Gen9 PCI BAFFLE Kit (779861-B21) is included while order Performance Model with H240 Storage Controller.	779861-B21
	HP ML150 Gen9 Slim ODD Enablement Kit	784603-B21
	NOTE: Must select with the ODD option.	
	HP ML150 Gen9 Smart Storage Battery Holder Kit NOTE: Must select when install Smart Store Battery P/N: 727258-B21. NOTE: Must select when install P440/840 FIO controller P/N: 761872-B21/761874-B21. NOTE: Must select when support upgrade battery.	786710-B21
		7005/7 004
	HP ML150 Gen9 9/10LFF Drive Enablement Kit NOTE: When populate 10 LFF, not able to install any Tape Drive or Optical Drive. Possible Configurations: 1) 8LFF +1 ODD + 1 Tape Drive (Full/Half), or 2) 9LFF + 1 ODD, or 3) 9LFF + 1 Tape Drive (Full/Half). NOTE: 10LFF is limited to B140i controller. NOTE: Must select both 4LFF NHPE drive cage and 10LFF enablement kit if plan to expand to 10LFF. NOTE: Only support NHPE SATA HDD.	788567-B21
	NOTE: Must select B140i controller.	
	HP ML150 Gen9 Dedicated iLO Management Port Kit	780310-B21
	HP ML150 Gen9 Mini SAS H240 Cable Kit NOTE: Must be selected for H240 controller. 1 cable kit is required for Hot Plug 4LFF. 2 cable kits are required for below: - Hot Plug 4+4 LFF (with additional drive cage) - 8 SFF	784606-B21
	HP ML150 Gen9 Mini SAS P440/P840 Cable Kit NOTE: Must be selected for P440/P840 controller. 1 cable kit is required for P440x1. 2 cable kits are required for P840x1.	784608-B21
	HP Tower to Rack Conversion Tray Universal Kit	417705-B21
	HP ML150 Gen9 GPU Enablement Kit	779863-B21
HPE Processors	E5-2600v4 series Processors	
	HPE ML150 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) Processor Kit	828355-B21
	HPE ML150 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W)	828356-B21

Processor Kit

HPE ML150 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) Processor Kit	828357-B21
HPE ML150 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W) Processor Kit	828358-B21
HPE ML150 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) Processor Kit	828361-B21
HPE ML150 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) Processor Kit	828353-B21
HPE ML150 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W) Processor Kit	828359-B21
HPE ML150 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) Processor Kit	828360-B21
HPE ML150 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) Processor Kit	828354-B21
HPE ML150 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) Processor Kit	860714-B21
HPE ML150 Gen9 Intel® Xeon® E5-2683v4 (2.1GHz/16-core/40MB/120W) Processor Kit	860715-B21
HPE ML150 Gen9 Intel® Xeon® E5-2695v4 (2.1GHz/18-core/45MB/120W) Processor Kit	860716-B21
E5-2600v3 series Processors	
HP ML150 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit	726660-B21
HP ML150 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit	726663-B21
HP ML150 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit	726650-B21
HP ML150 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit	726653-B21
HP ML150 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit	726657-B21
HP ML150 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor Kit	726644-B21
HP ML150 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) Processor Kit	726647-B21
HP ML150 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit	726670-B21

NOTE: Recommend to select 900W for 2P configurations or check power advisor for power consumption for the customer usage case.

HPE Memory	Registered DIMMs (RDIMMs)

Kegiorer eu 2 ii ii (K2 ii ii io)	
HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726717-B21
HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit	803026-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-15-15-15 Registered Memory Kit	759934-B21

	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit	803028-B21
	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726719-B21
	HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	728629-B21
	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 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805351-B21
	HPE 16GB (1x16GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	836220-B21
	HPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Standard Memory Kit	851353-B21
	Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series	
	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726720-B21
	HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit	805353-B21
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
	HP ML150 Gen9 Slim ODD Enablement Kit	784603-B21
	NOTE: Must be selected with the ODD option.	
	NOTE: Must select ODD enablement kit, one kit per ODD.	

HPE Drives

NOTE: User may select any combination of SAS or SATA Hard Drives. However, if RAID is selected and both SAS and SATA Hard Drives have been selected, then only the SAS Drives will be used in the RAID set.

NOTE: If B140i is the primary controller, user can only select SATA drives.

NOTE: SAS drives require the selection of a SAS controller. See card lists in Controllers section.

SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives

HP 2TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	
HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Si Firmware HDD	gned 872481-B21
HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	781518-B21
HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warra Hard Drive	nty 718162-B21
HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872479-B21
HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty DS Digitally Significance HDD	ned 870759-B21
HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	870765-B21
HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Har Drive	d 785069-B21
DIME	

HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652589-B21
HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870757-B21
HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	870763-B21
HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872477-B21
HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759212-B21
HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	781516-B21
HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652583-B21
HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC 512e Enterprise 3yr Warranty Hard Drive	748387-B21
HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759210-B21
HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652572-B21
HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870753-B21
HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872475-B21
HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759208-B21
HP 300GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	785067-B21
HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652564-B21
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652605-B21
HP 1TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765464-B21
HPE 1TB 12G SAS 7.2K rpm SFF (2.5in) SC Midline 1yr Warranty Hard Drive	832514-B21
HP 1.8TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard Drive	791034-B21
SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives	
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793671-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793669-B21
HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	765424-B21
HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737394-B21
HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737261-B21
SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HPE 10TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	857644-B21

HPE 8TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	819201-B21
HPE 8TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	861590-B21
HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	861754-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765259-B21
HPE 6TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846514-B21
HP 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	761477-B21
HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	861756-B21
HPE 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	818367-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765257-B21
HPE 3TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846528-B21
HP 3TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652766-B21
HPE 2TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	818365-B21
HPE 1TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846524-B21
HP 1TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652753-B21
SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HPE 10TB 6G SATA 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	857648-B21
HPE 8TB 6G SATA 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	861594-B21
HPE 8TB 6G SATA 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	819203-B21
HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	861750-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765255-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793667-B21
HPE 6TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846510-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	753874-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	861752-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765253-B21
HPE 4TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	861678-B21
HP 4TB 6G SATA 7.2k rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	693687-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives	793665-B21
HPE 3TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	861693-B21
HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	628061-B21
HPE 2TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	861676-B21
HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658079-B21
HPE 2TB 6G SATA 7.2K rpm LFF (3.5in) SC Standard 1yr Warranty Hard Drive	858596-B21
HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	861691-B21

HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	657750-B21
HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Standard 1yr Warranty Hard Drive	858594-B21
HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658071-B21
SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives	
HP 2TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765455-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765453-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655710-B21
SATA Non-Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
HP 4TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801888-B21
HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	628065-B21
HP 3TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801886-B21
HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	659339-B21
HP 2TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801884-B21
HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	659337-B21
HP 1TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801882-B21
HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	659341-B21
12G SAS Hot Plug SFF (2.5-inch) Enterprise Performance Solid State Drives	
HP 200GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802578-B21
HP 400GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802582-B21
HP 800GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802586-B21
HP 1.92TB 12G SAS Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802891-B21
12G SAS Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762263-B21
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762261-B21
12G SAS Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	762272-B21
HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	762270-B21
SAS Hot Plug SmartDrive LFF (3.5-inch) Midline 512e Helium Drives	
HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793703-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793699-B21
6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives	
HPE 1.92TB 6G SATA Read Intensive SFF (2.5in) SC 1yr Warranty Solid State Drive	871770-B21
HPE 1.6TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	869386-B21

HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804605-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	869384-B21
HPE 960GB 6G SATA Read Intensive SFF (2.5in) SC 1yr Warranty Solid State Drive	871768-B21
HP 800GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804599-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	869378-B21
HP 480GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804593-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	869376-B21
HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804587-B21
HPE 150GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	869374-B21
HP 120GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804581-B21
HP 80GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804575-B21
6G SATA Hot Plug RI-3 SFF (2.5-inch) SC Solid State Drives	
HP 3.84TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816929-B21
6G SATA Hot Plug SFF (2.5-inch) SC Write Intensive Solid State Drives	
HPE 1.6TB SATA 6G WI SFF SC DS SSD	872363-B21
HP 1.2TB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804677-B21
HPE 800GB SATA 6G WI SFF SC DS SSD	872359-B21
HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804671-B21
HPE 400GB SATA 6G WI SFF SC DS SSD	872355-B21
HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804665-B21
HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804639-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
HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804631-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872348-B21
HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804625-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872344-B21
HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	832414-B21
HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804613-B21
6G SATA Hot Plug MU-3 SFF (2.5-inch) SC Solid State Drives	
HP 1.92TB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	817011-B21
HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816995-B21
HP 480GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816985-B21
6G SATA Hot Plug LFF (3.5-inch) SC Read Intensive Solid State Drives	
HPE 1.6TB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	869388-B21
HP 1.6TB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804608-B21
HP 800GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804602-B21
HPE 480GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	869380-B21
HP 480GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804596-B21

HP Ethernet 1Gb 4-port 331T Adapter 647594-B21 HP Ethernet 1Gb 2-port 361T Adapter 652497-B21 HP Ethernet 1Gb 2-port 332T Adapter 615732-B21 HP Ethernet 1Gb 4-port 366T Adapter 811546-B21 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 560SFP+ Adapter 665249-B21 HP Ethernet 10Gb 2-port 561T Adapter 716591-B21 HPE Ethernet 10Gb 2-port 562SFP+ Adapter 727055-B21 HPE Power HPE Entry-Level Power Supplies		HP 240GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804590-B21
66 SATA Hot Plug LFF (3.5-inch) RI-3 SCC SSD HP 3.84TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive 60 SATA Hot Plug LFF (3.5-inch) SC Write Intensive Solid State Drives HP 1.2TB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 800GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 400GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 200GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 200GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 200GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 1.6TB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 1.6TB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 400GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 200GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 200GB 6G SATA Mixed Use-3 LFF 3.5-in SCC 3yr Why Solid State Drive GS SATA Hot Plug LFF (3.5-inch) Mu3 SCC SSD HP 960GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) Midline 512e Helium Drives HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) Mixed SATA 666987-B21 HP Ethernet 1 Gb 2-port 352T Adapter HP Ether		HP 120GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804584-B21
HP 3.84TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive		HP 80GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804578-B21
STATE Drive GG SATA Hot Plug LFF (3.5-inch) SC Write Intensive Solid State Drives HP 1.2TB 6.6 SATA Write Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive 80.4680-821 HP 800GB 6.6 SATA Write Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive 80.4668-821 HP 400GB 6.6 SATA Write Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive 80.4668-821 HP 200GB 6.6 SATA Write Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive 80.4668-821 HP 200GB 6.6 SATA Mixed User-2 LFF 3.5-in SCC 3yr Why Solid State Drive 80.4634-821 HP 1.6TB 6.6 SATA Mixed User-2 LFF 3.5-in SCC 3yr Why Solid State Drive 80.4634-821 HP 6.406.6 SATA 6.6 Mixed User-2 LFF 3.5-in SCC 3yr Why Solid State Drive 80.4634-821 HP 80.0GB SATA 6.6 Mixed User-2 LFF 3.5-in SCC 3yr Why Digitally Signed 872350-821 Firmware SSD HP 80.0GB SATA 6.6 Mixed User-2 LFF 3.5-in SCC 3yr Why Digitally Signed 872346-821 HP 8.4068.6 SATA Mixed User-2 LFF 3.5-in SCC 3yr Why Solid State Drive 872346-821 HP 8.0GB 6.6 SATA Mixed User-2 LFF 3.5-in SCC 3yr Why Solid State Drive 872346-821 HP 8.0GB 6.6 SATA Mixed User-2 LFF 3.5-in SCC 3yr Why Solid State Drive 872346-821 HP 8.0GB 6.6 SATA Mixed User-3 LFF 3.5-in SCC 3yr Why Solid State Drive 872346-821 HP 8.0GB 6.6 SATA Mixed User-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive HP 48.0GB 6.6 SATA Mixed User-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive HP 8.0GB 6.6 SATA Mixed User-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive HP 8.0GB 6.6 SATA Mixed User-3 LFF 3.5-in SC Converter 3yr Why Solid State 81.6989-821 Drive HP 8.0GB 6.6 SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard 79.3695-821 Drive HP 6.7GB 6.6 SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard 79.3695-821 Drive HP 6.7GB		6G SATA Hot Plug LFF (3.5-inch) RI-3 SCC SSD	
HP 1.2TB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 800GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 400GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive 804674-B21 HP 200GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive 804642-B21 6G SATA Hot Plug LFF (3.5-inch) SC Mixed Use Solid State Drive HP 1.6TB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 1.6TB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 9.60GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Why Solid State Drive HP 9.60GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Why Solid State Drive HP 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 480GB SATA 6G Mixed Use-1 LFF 3.5-in SCC 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 960GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 960GB 6G SATA Mixed Use-3 LFF 3.5-in SCC Onverter 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 6D - port 331T Adapter HP Ethernet 1.6D 4-port 351T Adapter HP Ethernet 1.6D 4-port 3561T Adapter HP Ethernet 1.6D 2-port 560SFP+ Adapter HP Ethernet		•	816933-B21
HP 800GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 400GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive 804668-B21 HP 200GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive 6G SATA Hot Plug LFF (3.5-inch) SC Mixed Use Solid State Drive HP 16TB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 16TB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Digitally Signed Firmware SSD HP 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Digitally Signed Firmware SSD HP 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Digitally Signed Firmware SSD HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SCC 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SCC 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Why Solid State HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6		6G SATA Hot Plug LFF (3.5-inch) SC Write Intensive Solid State Drives	
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### HP 200GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive ### 6G SATA Hot Plug LFF (3.5-inch) SC Mixed Use Solid State Drive ### 16TB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive ### 960GB SATA 6G Mixed Use-1 LFF 3.5-in SCC 3yr Wty Digitally Signed ### 872350-821 ### 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive ### 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Digitally Signed ### 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Digitally Signed #### 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive ####################################		HP 800GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804674-B21
6G SATA Hot Plug LFF (3.5-inch) SC Mixed Use Solid State Drives HP 1.6TB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive HP 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD HP 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive HP 200GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF 63.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF 63.5-inch HP 6TB 6G SATA 7.2K rpm LFF 63.5-inch HP 6TB 6G SAT		HP 400GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804668-B21
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HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wry Digitally Signed Firmware SSD HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive 832417-B21 HP 200GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive 804616-B21 6G SATA Hot Plug LFF (3.5-inch) MU-3 SCC SSD HP 960GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive 6G SATA Hot Plug with SmartDrive LFF (3.5-inch) Midline 512e Helium Drives HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP Large Form Factor Hard Drive Blank Kit 666986-B21 HP Small Form Factor Hard Drive Blank Kit 666987-B21 HP Ethernet 1Gb 2-port 331T Adapter 647594-B21 HP Ethernet 1Gb 2-port 331T Adapter 652497-B21 HP Ethernet 1Gb 2-port 361T Adapter 61573-B21 HP Ethernet 1Gb 2-port 366T Adapter 811546-B21 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 560SP+ Adapter 665249-B21 HP Ethernet 10Gb 2-port 561T Adapter 716591-B21 HP Ethernet 10Gb 2-port 562SFP+ Adapter 716591-B21			872350-B21
Firmware SSD HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive HP 200GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive 804616-821 6G SATA Hot Plug LFF (3.5-inch) MU-3 SCC SSD HP 960GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive 6G SATA Hot Plug with SmartDrive LFF (3.5-inch) Midline 512e Helium Drives HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive Hard Drive Blank Kits HP Large Form Factor Hard Drive Blank Kit 666986-B21 HP Small Form Factor Hard Drive Blank Kit 666987-B21 IPE Networking 1 Gigabit Ethernet adapters HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 4-port 332T Adapter HP Ethernet 1Gb 4-port 336T Adapter HP Ethernet 1Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 562SFP+ Adapter HP Ethernet 10Gb 2-port 562SFP+ Adapter HP Ethernet 10Gb 2-port 562SFP+ Adapter HPE Ethernet 10Gb 2-port 562SFP+ Adapter		HP 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804628-B21
### HP 200GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive ### 6G SATA Hot Plug LFF (3.5-inch) MU-3 SCC SSD ### P 960GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive ### HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive ### B 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive ### 6G SATA Hot Plug with SmartDrive LFF (3.5-inch) Midline 512e Helium Drives #### HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive ### HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive #### HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive ####################################		, , , , ,	872346-B21
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HP 960GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive 6G SATA Hot Plug with SmartDrive LFF (3.5-inch) Midline 512e Helium Drives HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HArd Drive Blank Kits HP Large Form Factor Hard Drive Blank Kit HP Small Form Factor Hard Drive Blank Kit HP Small Form Factor Hard Drive Blank Kit HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 2-port 360T Adapter HP Ethernet 1Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter HP Ethernet 10Gb 2-port 562SFP+ Adapter HPE Ethernet 10Gb 2-port 562SFP+ Adapter		HP 200GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804616-B21
Drive		6G SATA Hot Plug LFF (3.5-inch) MU-3 SCC SSD	
Drive 6G SATA Hot Plug with SmartDrive LFF (3.5-inch) Midline 512e Helium Drives HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard 793695-B21 Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard 793683-B21 Drive Hard Drive Blank Kits 666986-B21 HP Large Form Factor Hard Drive Blank Kit 666987-B21 HP Small Form Factor Hard Drive Blank Kit 666987-B21 HP Ethernet 16b 4-port 331T Adapter 647594-B21 HP Ethernet 16b 2-port 361T Adapter 652497-B21 HP Ethernet 16b 2-port 364T Adapter 615732-B21 HP Ethernet 16b 4-port 364T Adapter 811546-B21 10 Gigabit Ethernet adapters HP Ethernet 106b 2-port 560SFP+ Adapter 665249-B21 HP Ethernet 106b 2-port 561T Adapter 716591-B21 HP Ethernet 106b 2-port 562SFP+ Adapter 727055-B21 HPE Ethernet 106b 2-port 562SFP+ Adapter 727055-B21 HPE Entry-Level Power Supplies HPE Entry-Level Power Supplies HPE Entry-Level Power Supplies HPE Entry-Level Power Supplies HPE Helium 1 1978			816999-B21
HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive Hard Drive Blank Kits HP Large Form Factor Hard Drive Blank Kit 666986-B21 HP Small Form Factor Hard Drive Blank Kit 666987-B21 I Gigabit Ethernet adapters HP Ethernet 1Gb 4-port 331T Adapter 652497-B21 HP Ethernet 1Gb 2-port 361T Adapter 615732-B21 HP Ethernet 1Gb 4-port 336T Adapter 615732-B21 HP Ethernet 1Gb 4-port 366T Adapter 811546-B21 IO Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 560SFP+ Adapter 665249-B21 HP Ethernet 10Gb 2-port 561T Adapter 716591-B21 HP Ethernet 10Gb 2-port 562SFP+ Adapter 727055-B21 HPE Power HPE Entry-Level Power Supplies			816989-B21
Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive Hard Drive Blank Kits HP Large Form Factor Hard Drive Blank Kit HP Small Form Factor Hard Drive Blank Kit 666986-B21 HP Small Form Factor Hard Drive Blank Kit 666987-B21 I Gigabit Ethernet adapters HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 4-port 356T Adapter HP Ethernet 1Gb 4-port 366T Adapter HP Ethernet 1Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 562SFP+ Adapter HP Ethernet 10Gb 2-port 562SFP+ Adapter HPE Ethernet 10Gb 2-port 562SFP+ Adapter HPE Ethernet 10Gb 2-port 562SFP+ Adapter HPE Entry-Level Power Supplies		6G SATA Hot Plug with SmartDrive LFF (3.5-inch) Midline 512e Helium Drives	
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HP Large Form Factor Hard Drive Blank Kit HP Small Form Factor Hard Drive Blank Kit 666986-B21 HP Embers HP Ethernet adapters HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 4-port 366T Adapter HP Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter HP Ethernet 10Gb 2-port 562SFP+ Adapter HP Ethernet 10Gb 2-port 562SFP+ Adapter HPE Ethernet 10Gb 2-port 562SFP+ Adapter HPE Ethernet 10Gb 2-port 562SFP+ Adapter			793683-B21
#PE Networking 1 Gigabit Ethernet adapters HP Ethernet 1Gb 4-port 331T Adapter 652497-B21 HP Ethernet 1Gb 2-port 361T Adapter 652497-B21 HP Ethernet 1Gb 2-port 332T Adapter 615732-B21 HP Ethernet 1Gb 4-port 366T Adapter 811546-B21 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 560SFP+ Adapter 665249-B21 HP Ethernet 10Gb 2-port 561T Adapter 716591-B21 HP Ethernet 10Gb 2-port 562SFP+ Adapter 727055-B21 #PE Power HPE Entry-Level Power Supplies		Hard Drive Blank Kits	
### In the Image of Supplies #### In the Image of Supplies ######### In the Image of Supplies ###################################		HP Large Form Factor Hard Drive Blank Kit	666986-B21
HP Ethernet 1Gb 4-port 331T Adapter 647594-B21 HP Ethernet 1Gb 2-port 361T Adapter 652497-B21 HP Ethernet 1Gb 2-port 332T Adapter 615732-B21 HP Ethernet 1Gb 4-port 366T Adapter 811546-B21 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 560SFP+ Adapter 665249-B21 HP Ethernet 10Gb 2-port 561T Adapter 716591-B21 HPE Ethernet 10Gb 2-port 562SFP+ Adapter 727055-B21 HPE Power HPE Entry-Level Power Supplies		HP Small Form Factor Hard Drive Blank Kit	666987-B21
HP Ethernet 1Gb 2-port 361T Adapter 652497-B21 HP Ethernet 1Gb 2-port 332T Adapter 615732-B21 HP Ethernet 1Gb 4-port 366T Adapter 811546-B21 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 560SFP+ Adapter 665249-B21 HP Ethernet 10Gb 2-port 561T Adapter 716591-B21 HPE Ethernet 10Gb 2-port 562SFP+ Adapter 727055-B21 HPE Power HPE Entry-Level Power Supplies	HPE Networking	-	
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HP Ethernet 1Gb 4-port 366T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter HPE Ethernet 10Gb 2-port 562SFP+ Adapter HPE Ethernet 10Gb 2-port 562SFP+ Adapter HPE Power HPE Entry-Level Power Supplies		·	
HPE Entry-Level Power Supplies 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 560SFP+ Adapter HPE Ethernet 10Gb 2-port 561T Adapter HPE Ethernet 10Gb 2-port 562SFP+ Adapter 727055-B21 HPE Power HPE Entry-Level Power Supplies			
HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 561T Adapter T16591-B21 HPE Ethernet 10Gb 2-port 562SFP+ Adapter T27055-B21 HPE Power HPE Entry-Level Power Supplies		·	811546-B21
HPE Ethernet 10Gb 2-port 561T Adapter 716591-B21 HPE Ethernet 10Gb 2-port 562SFP+ Adapter 727055-B21 HPE Power HPE Entry-Level Power Supplies			
HPE Ethernet 10Gb 2-port 562SFP+ Adapter 727055-B21 HPE Power HPE Entry-Level Power Supplies		·	
HPE Power HPE Entry-Level Power Supplies		·	
/ _c. c. c		HPE Ethernet 10Gb 2-port 562SFP+ Adapter	727055-B21
Gupplies HPE 900W Standard AC 240VDC Power Input Module 775595-B21	HPE Power	HPE Entry-Level Power Supplies	
	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: HPE 900W Gold (Redundant) AC 240VDC Power Input Module (775595-B21) must be used with Power Backplane (814835-B21).

HPE 900W Standard AC 240VDC RPS Power Backplane

814835-B21

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.

NOTE: Each Redundant Power Supply Backplane can support up to two (2) power input modules.

NOTE: When purchase HPE 900W AC 240VDC RPS Power Backplane (814835-B21) + HPE 900W AC 240VDC Power Input Module (775595-B21), it supports 900W non-redundant PS.

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 field integratable option.

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: Recommend to select 900W for 2P configurations or check power advisor for power consumption for the customer usage case. Power specifications and technical content for all HPE Server power supplies can be found at http://www.hp.com/go/proliant/powersupply.

HPE Computation and Graphics Accelerators

HP NVIDIA Quadro K2200 Graphics Accelerator

JOG89A

JOH10A

NOTE: Must select 2 processor if 2 graphic cards are selected.

NOTE: Must select 900W power supply when 2 graphic cards are selected.

HP AMD FirePro W7100 Accelerator Kit

NOTE: Must select HPE ML150 Gen9 GPU Enablement Kit (779863-B21) if

W7100 Accelerator Kit (J0H10A) is selected.

HP ML150 Gen9 GPU Enablement Kit

779863-B21

NOTE: Only the above listed Graphics cards are HPE standard supported options in this server.

NOTE: The NVIDIA Quadro modules and AMD FirePro W7100 are supported only on 64-bit versions of Linux and Windows operating systems as well as on Virtual Machine client operating systems. The supported bare metal operating systems are RHEL6, SLES 11 and Windows Server 2012 R2.

NOTE: Please see the HPE Power Advisor for estimated power consumption of your individual system configuration prior to installing GPUs. The HPE Power Advisor is located

at: http://www.hp.com/go/hppoweradvisor.

HPE Cooling Options

HP ML150 Gen9 PCI Baffle Kit

779861-B21

NOTE: Must be selected when a PCIe card is installed with any Networking, Controllers (SAS, SCSI and Fiber Channel), and Graphic options.

NOTE: HPE ML150 Gen9 PCI BAFFLE Kit (779861-B21) is included while

order Performance Model with H240 Storage Controller.

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

Embedded	HPE iLO Advanced	
Management	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 1yr 24x7 Technical Support and Updates 1-server LTU	512485-B21
	HPE iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU	E6U64ABE
	HPE Insight Control including 1yr 24x7 Technical Support and Updates 1-server LTU	C6N27A
	HPE Insight Management Media Kit	C6N31A
	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
High Performance	HPE Insight Cluster Management Utility	
Clusters	HPE Insight Cluster Management Utility 3yr 24x7 Flexible LTU	BD476A
	HPE Insight Cluster Management Utility 1yr 24x7 Flexible LTU	QL803B
	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.	
	HPE Insight Cluster Management Utility Media	BD477A
HPE Security	HP 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 HPE ProLiant Gen8	
	servers or earlier generation variants.	
	NOTE: HPE Gen9 servers purchased earlier may need the latest firmware	
	NOTE: HPE Gen9 servers purchased earlier may need the latest firmware update to be compatible with the TPM 2.0 Option.	
	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	
	NOTE: HPE Gen9 servers purchased earlier may need the latest firmware update to be compatible with the TPM 2.0 Option.	
-	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. SAS Controllers	
_	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. SAS Controllers HPE Smart Array Controllers	
_	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. SAS Controllers HPE Smart Array Controllers HP Smart Array P440/2GB FBWC 12Gb 1-port Int SAS Controller	820834-B21
_	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. SAS Controllers HPE Smart Array Controllers HP Smart Array P440/2GB FBWC 12Gb 1-port Int SAS Controller HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller	726821-B21
_	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. SAS Controllers HPE Smart Array Controllers HP Smart Array P440/2GB FBWC 12Gb 1-port Int SAS Controller HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller	
HPE Storage Controllers	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. SAS Controllers HPE Smart Array Controllers HP Smart Array P440/2GB FBWC 12Gb 1-port Int SAS Controller HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller	726821-B21
-	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. SAS Controllers HPE Smart Array Controllers HP Smart Array P440/2GB FBWC 12Gb 1-port Int SAS Controller HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller HP Smart Array P840/4GB FBWC 12Gb 2-ports Int SAS Controller	726821-B21 726825-B21
_	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. SAS Controllers HPE Smart Array Controllers HP Smart Array P440/2GB FBWC 12Gb 1-port Int SAS Controller HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller HP Smart Array P840/4GB FBWC 12Gb 2-ports Int SAS Controller NOTE: 16SFF is limited to P840.	726821-B21 726825-B21 726897-B21
_	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. SAS Controllers HPE Smart Array Controllers HP Smart Array P440/2GB FBWC 12Gb 1-port Int SAS Controller HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller HP Smart Array P840/4GB FBWC 12Gb 2-ports Int SAS Controller NOTE: 16SFF is limited to P840. HP Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller	726821-B21 726825-B21 726897-B21
_	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. SAS Controllers HPE Smart Array Controllers HP Smart Array P440/2GB FBWC 12Gb 1-port Int SAS Controller HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller HP Smart Array P840/4GB FBWC 12Gb 2-ports Int SAS Controller NOTE: 16SFF is limited to P840. HP Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller SAS Controller Options HP 96W Smart Storage Battery with 145mm Cable for DL/ML/SL Servers	726821-B21 726825-B21 726897-B21 726903-B21
-	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. SAS Controllers HPE Smart Array Controllers HP Smart Array P440/2GB FBWC 12Gb 1-port Int SAS Controller HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller HP Smart Array P840/4GB FBWC 12Gb 2-ports Int SAS Controller NOTE: 16SFF is limited to P840. HP Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller SAS Controller Options	726821-B21 726825-B21 726897-B21 726903-B21

HP H241 12Gb 2-ports Ext Smart Host Bus Adapter

726911-B21

NOTE: If H240 is the primary controller and if HPE Mfg FIO Enable HBA Mode Setting is selected, then RAID is not allowed.

NOTE: B140i can't mix with any standup internal controller.

NOTE: HPE ML150 Gen9 PCI BAFFLE Kit (779861-B21) is required when ordering a controller card.

HPE Cable Options

 HP ML150 Gen9 Mini SAS H240 Cable Kit
 784606-B21

 HP ML150 Gen9 Mini SAS P440/P840 Cable Kit
 784608-B21

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.

NOTE: HPE SmartCache comes standard (no licensing is required) if the HPE

Smart Array P840 Controller is installed in the server.

Battery Holder

HP ML150 Gen9 Smart Storage Battery Holder Kit

786710-B21

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: Must select SAS controller to support internal SAS tape drives.

NOTE: Tape drive and HDD total amount can't exceed SAS controller support qty.

NOTE: Limited to H240 when select Tape Drive.

Tape Drives

Cable

HPE StoreEver LTO-7 Ultrium 15000 External Tape Drive	BB874A
HPE StoreEver LTO-7 Ultrium 15000 Internal Tape Drive	BB873A
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-6 Ultrium 6250 Internal Tape Drive	EH969A
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
HPE StoreEver LTO-5 Ultrium 3000 SAS Internal Tape Drive	EH957B
HPE StoreEver LTO-4 Ultrium 1760 SAS (1) in a 1U Rack Mount Kit	EH946C
HPE StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive	EH920B
HPE StoreEver LTO-4 Ultrium 1760 SAS Internal WW Tape Drive	EH919B
HPE StoreEver 1U SAS Rack Mount Kit	AE459B
HPE StoreEver Mini-SAS High Density to 4-lane Mini-SAS External Fanout 2m	K2R09A
Cable	
HPE StoreEver Mini-SAS High Density to 4-lane Mini-SAS External Fanout 4m	K2R10A

HPE Tape Storage Systems HPE StoreEver MSL6480

HPE StoreEver MSL6480 Scaleable Expansion Module	QU626A
HPE StoreEver MSL6480 Scalable Base Module	QU625A
HPE StoreEver MSL2024 0-drive Tape Library	AK379A
HPE StoreEver MSL4048 O-drive Tape Library	AK381A

NOTE: Please see the QuickSpecs for Technical Specifications and additional information:

https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04111416

HPE Disk Backup	HPE RDX Removable Disk Backup System HPE RDX500 USB3.0 Internal Disk Backup System HPE RDX1000 USB3.0 Internal Disk Backup System HPE RDX USB 3.0 Internal Docking Station HPE RDX 2TB USB3.0 Internal Disk Backup System HPE RDX 3TB USB 3.0 Internal Disk Backup System HPE RDX+ External Docking System HP RDX+ 500GB External Backup System HP RDX+ 1TB External Backup System HP RDX 2TB USB3.0 External Disk Backup System HP RDX 2TB USB3.0 External Disk Backup System HPE RDX+ 3TB USB 3.0 External Disk Backup System NOTE: For the complete range of RDX drives and media see: http://www.hp.com/go/and software compatibility of HPE disk backup products see: http://www.hp.com/sto	
HPE Disk Storage Systems	Disk Enclosures HP D6000 w/35 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 140TB Bundle HP D6000 w/70 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 280TB Bundle HP D6000 Dual I/O Module Disk Enclosure HP D6000 w/35 2TB 6G SAS 7.2K LFF Dual port MDL HDD 70TB Bundle HP D6000 w/70 2TB 6G SAS 7.2K LFF Dual port MDL HDD 140TB Bundle HP D6000 w/35 3TB 6G SAS 7.2K LFF Dual port MDL HDD 105TB Bundle HP D6000 w/70 3TB 6G SAS 7.2K LFF Dual port MDL HDD 210TB Bundle HPE D6000 w/70 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 560TB Bundle HPE D6000 w/35 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 280TB Bundle	E7W30A E7W31A QQ695A QQ697A QQ698A QQ699A QQ700A M0T59A
HPE Power Distribution Units (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 HPE Basic 2.8kVA/L5-30P 24A/120V Outlets (18) 5-20R/Vertical NA/JP PDU HPE Basic 4.9kVA/60320 C20 Detachable 16A/230V Outlets (20) C13/Vertical WW PDU HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (20) C13/Vertical NA/JP PDU HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13/Vertical NA/JP PDU HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU HPE Basic 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (6) C19/Vertical NA PDU HPE Basic 9.2kVA/50A Terminal Block 40A/230V Outlets (30) C13 (6) C19/Vertical WW PDU HPE Basic 3Ph 5.7kVA/ L21-20P 16A/120-208V Outlets (24) C13 (3) 5-20R/Vertical NA/JP PDU HPE Basic 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (24) C13 (3) C19 (3) 5-20R/Vertical NA/JP PDU HPE Basic 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU HPE Basic 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU	H5M54A H5M56A H5M55A H5M57A H5M58A H5M61A H5M69A H5M60A H5M75A H5M63A H5M64A H5M64A

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
HP 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 NA/JP PDU	D9N58A
HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V Outlets (30) C13 (3) C19/Vertical NA/JP PDU	D9N61A
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 NOTE: Please see the HPE Metered Power Distribution Units (PDU) QuickSpecs	E2D53A
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
HP 5xC13 Intelligent PDU Extension Bar G2 Kit	AF547A
HP 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)5-20R/Vertical NA/JP PDU	H8B53A
HPE Metered Switched 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	H8B55A
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) Quick	<u>«Specs</u>
for information on additional options and product specifications.	
NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) web pa	<u>ige</u> .

HPE Rack Mount
Consoles, KVM
Switches, and
Keyboards

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

Additional Options

	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 NOTE: To learn more, please visit the HPE KVM Switches web page.	AF622A
	HPE USB Keyboard and Mouse	
	HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-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
	HP Tower to Rack Conversion Tray Universal Kit	417705-B21
Power Systems (UPS)	ible 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
	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 NOTE: All Input/Output Modules support dual output outlets except the AF484A.	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
	THE MAN DIRECTION SECONDARY DATTERY CASIE	ΛI + 7/Λ

Additional Options

HPE USB and SD

HPE Support Services

Options

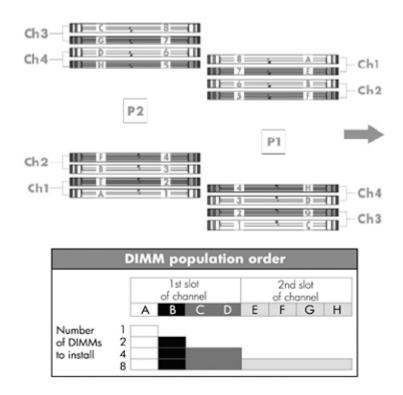
NOTE: Please see the HPE DirectFlow Three Phase Uninterruptible Power System QuickSpecs
for information on additional options and product specifications.

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
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)	
	AF460A
HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System	AI 400A
NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (L	
NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (U	
NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (U	JPS) web page
NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UNIDED TO POWER SYSTEMS	JPS) web page . 700139-B21
NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UNIDED TO PROPERTY OF THE STATE OF T	700139-B21 726116-B21
NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UNIDER CONTROLL OF CONTROLL O	700139-B21 726116-B21 737953-B21
HPE Enterprise Mainstream Flash Media Kits for Memory Cards HPE 32GB microSD Mainstream Flash Media Kit HPE 8GB microSD Enterprise Mainstream Flash Media Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP Dual 8GB microSD Enterprise Midline USB Kit	700139-B21 726116-B21 737953-B21
HPE Enterprise Mainstream Flash Media Kits for Memory Cards HPE 32GB microSD Mainstream Flash Media Kit HPE 8GB microSD Enterprise Mainstream Flash Media Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP Dual 8GB microSD Enterprise Midline USB Kit Installation & Start-up Services	700139-B21 726116-B21 737953-B21 741279-B21
HPE Enterprise Mainstream Flash Media Kits for Memory Cards HPE 32GB microSD Mainstream Flash Media Kit HPE 8GB microSD Enterprise Mainstream Flash Media Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP Dual 8GB microSD Enterprise Midline USB Kit Installation & Start-up Services HPE Installation ML350e/ML150 Service	700139-B21 726116-B21 737953-B21 741279-B21
HPE Enterprise Mainstream Flash Media Kits for Memory Cards HPE 32GB microSD Mainstream Flash Media Kit HPE 8GB microSD Enterprise Mainstream Flash Media Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP Dual 8GB microSD Enterprise Midline USB Kit Installation & Start-up Services HPE Installation ML350e/ML150 Service HPE Startup ML350e/ML150 Service	700139-B21 726116-B21 737953-B21 741279-B21
HPE Enterprise Mainstream Flash Media Kits for Memory Cards HPE 32GB microSD Mainstream Flash Media Kit HPE 8GB microSD Enterprise Mainstream Flash Media Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP Dual 8GB microSD Enterprise Midline USB Kit Installation & Start-up Services HPE Installation ML350e/ML150 Service HPE Startup ML350e/ML150 Service Foundation Care	700139-B21 726116-B21 737953-B21 741279-B21 U6D41E U6D43E
HPE Enterprise Mainstream Flash Media Kits for Memory Cards HPE 32GB microSD Mainstream Flash Media Kit HPE 8GB microSD Enterprise Mainstream Flash Media Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP Dual 8GB microSD Enterprise Midline USB Kit Installation & Start-up Services HPE Installation ML350e/ML150 Service HPE Startup ML350e/ML150 Service Foundation Care HPE 3 year Foundation Care 24x7 ML150 Gen9 Service	700139-B21 726116-B21 737953-B21 741279-B21 U6D41E U6D43E U7WR1E
HPE Enterprise Mainstream Flash Media Kits for Memory Cards HPE 32GB microSD Mainstream Flash Media Kit HPE 8GB microSD Enterprise Mainstream Flash Media Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP Dual 8GB microSD Enterprise Midline USB Kit Installation & Start-up Services HPE Installation ML350e/ML150 Service HPE Startup ML350e/ML150 Service Foundation Care HPE 3 year Foundation Care 24x7 ML150 Gen9 Service HPE 3 year Foundation Care 24x7 wDMR ML150 Gen9 Service	700139-B21 726116-B21 737953-B21 741279-B21 U6D41E U6D43E U7WR1E U7WR2E
HPE Enterprise Mainstream Flash Media Kits for Memory Cards HPE 32GB microSD Mainstream Flash Media Kit HPE 8GB microSD Enterprise Mainstream Flash Media Kit HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit HP Dual 8GB microSD Enterprise Midline USB Kit Installation & Start-up Services HPE Installation ML350e/ML150 Service HPE Startup ML350e/ML150 Service Foundation Care HPE 3 year Foundation Care 24x7 ML150 Gen9 Service HPE 3 year Foundation Care 24x7 wDMR ML150 Gen9 Service HPE 3 year Foundation Care 24x7 wCDMR ML150 Gen9 Service	700139-B21 726116-B21 737953-B21 741279-B21 U6D41E U6D43E U7WR1E U7WR2E

HPE 3 year Proactive Care 24x7 with CDMR ML150 Gen9 Service

U7WU0E

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.
- . White DIMM slots denote the first slot to be populated in a channel.
- . 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 ML150 Gen9 servers.
- . Quad rank LRDIMMs are capable of up to three DIMMs per channel.
- . RDIMMs operating at 1.2V.
- . 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.
- . There are four (4) channels per processor; eight (8) channels per server. There are three (2) DIMM slots for each memory channel; twenty-four (16) total slots. Memory channels 1 and 3 consists of the two (2) DIMMs that are furthest from the processor. Memory channel 2 and 4 consists of the two (2) DIMMs that are closest to the processor.

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

Memory Bandwidth and Capacity

[DIMM Type]		Load Reduced (LRDIMMs)			
HPE SKU P/N	805347-B21	805349-B21	836220-B21	805351-B21	805353-B21
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank
DIMM Capacity	8GB	16GB	16GB	32GB	32GB
Voltage	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
DRAM Width [bit]	x8	x4	x4	x4	x4
DRAM Density	8Gb	8Gb	4Gb	8Gb	8Gb
CAS Latency	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
SLOTS THAT CAN BE POPU	LATED		•		
16 slot servers	16	16	16	16	16
MAXIMUM CAPACITY (GB)	L	L	L		
	128	256	256	512	512
POPULATED DIMM SPEED (I	I MT/s)				
1 DIMM Per Channel	2400	2400	2400	2400	2400
2 DIMM Per Channel	2133	2133	2133	2133	2400
3 DIMM Per Channel	n/a	n/a	n/a	n/a	n/a

DIMM slot and configuration diagram

DIMM slot and configuration diagrams

- 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.
- \bullet When two processors are installed, install DIMMs in sequential alphabetic order: CPU1-A, CPU2-A,CPU1-B,CPU2-B,CPU1-C, CP2-C

	CPU 1			CPU 2		
	Slot #	population order	Slot#p	Slot # population order		
Chnl 3	1	С	1	А	Chnl 1	
	2	G	2	E		
		CPU 1		CPU 2		
	Slot #	population order	Slot#p	oopulation order		
Chnl 4	3	D	3	В	Chnl 2	
	4	Н	4	F		
		CPU 1		CPU 2		
	Slot #	population order	Slot # p	oopulation order		
Chnl 2	5	F	5	Н	Chnl 4	

	6	В	6	D	
		CPU 1		CPU 2	
	Slot #	population order	Slot#p	oopulation order	
Chnl 1	7	Е	7	G	Chnl 3
	8	А	8	С	

Memory Speed by Processor Model

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

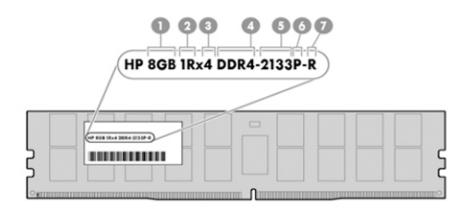
Standard and Maximum Memory Capacity (Preconfigured Models)

	Pre-Configured Models	7	Optional Memory	Standard Memory Replaced with Optional Memory
)	E5-2620v4	16GB (1x16GB)	496GB (15x32GB, 1x16GB)	512GB (16x32GB)
	E5-2609v4, E5-2609v3, E5-2603v4	8GB (1x8GB)	488GB (15x32GB, 1x8GB)	512GB (16x32GB)
	E5-2603v3	4GB (1x4GB)	484GB (15x32GB, 1x4GB)	512GB (16x32GB)

DDR4 memory options part number decoder

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

- 4GB = 4,096MB
- 8GB = 8,192MB
- 16GB = 16,384MB

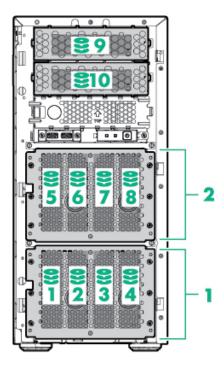


- 1. Capacity: 4GB/8GB/16GB/32GB
- 2. Rank: 1R = Single-rank; 2R = Dual-rank; 4R = Quad-rank

- 3. Data width: x4 = 4-bit; x8 = 8-bit
- 4. Memory generation: DDR4
- 5. Maximum memory speed: 2133 MT/s
- 6. CAS latency: P = 15
- 7. DIMM type: R = RDIMM (registered); L = LRDIMM (load reduced)

Storage

4-bay LFF non-hot-plug drive model

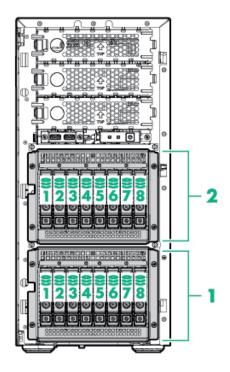


1-8 8 x LFF SATA/SSD Non-hot-plug Hard Drive Bays

9-10 Media Bays

NOTE: When populating 10 LFF, not able to install Tape Drive or Optical Drive. Possible Configurations: 1) 8LFF +1 ODD+ 1 Tape Drive (Full/Half), or 2) 9LFF + 1ODD, or 3) 9LFF + 1 Tape Drive (Full/Half).

8-bay LFF hot-plug drive model



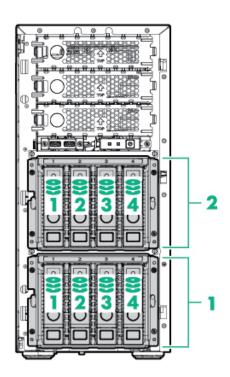
1 x 1-8 8 x LFF SAS/SSD Hot Pluggable Hard Drive Bays

2 x 1-8 8 x LFF SAS/SSD Hot Pluggable Hard Drive Bays

4-bay LFF hot-plug drive model

 $1 \times 1-4$ $4 \times LFF SATA/SSD Hot Pluggable Hard Drive Bays$

Storage



2 x 1-4 4 x LFF SATA/SSD Hot Pluggable Hard Drive Bays

Maximum Storage Capacity -

Total (10 LFF Drive) 80 TB Total (16 SFF Drive) 61.44 TB

System l	Jn	it
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Tower Dimensions 17.03(H) x 7.87(W) x 24.41(D) in (43.26 x 20 x 62 cm)

Tower Weight

Minimum: 32lb (14.51kg)

Maximum: 64lb (29.10kg)

Input Range Line 100 to 240 VAC

Requirements Voltage Rated Input (for Standard

For 550W Power Supply:6.7 A (at 100 VAC)3.3 A (at 200 VAC)

460W

Current

Rated Input PSU, see power

Frequency specifications

tables Rated Input for detail on Power

For 550 W Power Supply: < 670 W (at 100 VAC), < 660 W (at 200 VAC).

47 to 63 Hz

460W. 750W and 1200W

power supplies)

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.hp.com/go/proliant-energy-efficient or http://www.hp.com/qo/hppoweradvisor - Click on the system of interest.

Example: ML150 Gen9-Follow the instructions of the next screens.

Power Supply Output

Rated Steady-State Power

For 550 W Power Supply:550 W (at 100 VAC),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

10° to 35°C (50° to 95°F) at sea level with an altitude derating Operating Support of 1.0°Cper every 304.8 m (1.8°F per every 1000 ft) above sea

> level to a maximum of 3048 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 For approved hardware configurations, the supported system Operating Support 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 175m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3048m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hp.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 3048 m (10,000 ft). The approved hardware configurations for this system are listed at the

URL: http://www.hp.com/servers/ashrae

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

NOTE: Supports A3 extended ambient, A4 extended

ambience will be available in early 2015.

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.

Non-operating 5% to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum

wet bulb temperature, non-condensing.

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

number of options installed. Maximum allowable altitude change

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

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

457m/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

L pAm

L WAd 3.8 Bels (1P LFF Non Hot-Plug Entry)

3.8 Bels (1P LFF Hot-plug Base)

4.3 Bels (1P SFF Hot-plug Performance) 22 dBA (1P LFF Non Hot-Plug Entry)

22 dBA (1P LFF Hot-plug Base)

25 dBA (1P SFF Hot-plug Performance)

Operating

L WAd 3.8 Bels (1P LFF Non Hot-Plug Entry)

3.8 Bels (1P LFF Hot-plug Base)

4.1 Bels (1P SFF Hot-plug Performance)

23 dBA (1P LFF Non Hot-Plug Entry) L pAm

22 dBA (1P LFF Hot-plug Base)

25 dBA (1P SFF Hot-plug Performance)

NOTE: Configurations tested for 1P LFF Entry models included two (2) 500GB

LFF SATA Midline HDD and Windows 2012 Enterprise 64-bit.

NOTE: Configurations tested for 1P and 2P SFF models included two (2) 500GB

SFF SATA Midline HDD and Windows 2012 Enterprise 64-bit.

NOTE: The Listed sound levels apply to standard shipping configurations.

Additional options may result in increased sound levels.

Emissions Classification FCC Rating

Normative CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; Standards

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.

HPE Dynamic Smart Array B140i links Controller

Number of PCI

PCI link rate

4Gb/s

Four

Storage protocol SATA

support

SAS/SATA peak 6Gb/s

data transfer

rate

Number of 10 links

SAS/SATA links

SAS/SATA 2x4 connectors; 2x1 connectors

connectivity **Expander** No

support

Drives supported Up to 10 Internal Drives

(max)

0, 1, 10, 5 SATA **RAID** support HPE SSA, SMH, SIM Software

management

Warranty Server warranty **HPE Secure** Not Supported

Encryption license

HPE SmartCache Not Supported

License

HPE Smart

Supported

Storage **Administrator**

HPE Ethernet 1Gb Network 4-port 331i

Adapter

Interface

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

Compatibility IEEE 802.3 10Base-T

> IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX

Method

Data Transfer PCI Express, two lanes (x2)

Controller BCM5717 **Network** 10Base-T (Half-

Transfer Rate Duplex) 10 Mb/s per port, 40 Mb/s combined

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 Duplex)

100Base-TX (Full-

Duplex) 200 Mb/s per port, 800 Mb/s combined

100Base-TX (Half-

Duplex) 1000 Mb/s per port, 4000 Mb/s combined

100Base-TX (Full-

2000 Mb/s per port, 8000 Mb/s combined Duplex)

RJ-45 Connector

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

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

Environmentfriendly Products and Approach

End-of-life Management and Recycling

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

http://www8.hp.com/us/en/hpe/hpinformation/livingprogress/environmentalprogress/productrecycling.html#.V-IPA_krKiM

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://www8.hp.com/us/en/hpe/hpinformation/livingprogress/environmentalprogress/productrecycling.html#.V-IPA_krKiM

Summary of Changes

Date	Version History	Action	Description of Change
13-Feb-2017	From Version 19 to 20	Added	Added new HDD and SSD offering to the HPE Drives section.
28-Nov-2016	From Version 18 to 19	Added	Added new Hard Drives offering.
		Changed	Maximum Internal Storage was revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
28-Oct-2016	From Version 17 to 18	Removed	Obsolete Hard Drives were removed from the QuickSpecs.
26-Sep-2016	From Version 16 to 17	Added	Added new SATA LFF hard drives offering.
		Changed	Maximum Internal Storage and Pre-configured Models were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
15-Aug-2016	From Version 15 to 16	Changed	SmartBuy model 860119-S01 was revised.
24-Jun-2016	From Version 14 to 15	Changed	Tower weight under Technical Specifications was revised.
6-Jun-2016	From Version 13 to 14	Added	Added new HPE Drives, and HPE Disk Backup options.
		Changed	Maximum Internal Storage, Upgradeability, HPE Power Supplies, and Storage were revised.
6-May-2016	From Version 12 to 13	Changed	Maximum Internal Storage, Upgradeability, Memory, and HPE Drives were revised.
8-Apr-2016	From Version 11 to 12	Changed	HPE Processors section was revised.
31-Mar-2016	From Version 10 to 11	Added	Added Intel Xeon E5-2600 v4 Processor support, new HPE Gen9 Standard Memory, and new HPE 900W AC 240VDC Redundant Power.
		Changed	Maximum Internal Storage, Power Supplies, Embedded Management, Service and Support, Pre-configured Models, and Memory were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
16-Feb-2016	From Version 9 to 10	Added	New HDD offering was added to HPE Drives.
		Changed	HPE Power Supplies, HPE Disk Backup, and HPE Power Distribution Units (PDUs) were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
8-Jan-2016	From Version 8 to 9	Added	New Smart Buy model was added to the NA version only.
1-Dec-2015	From Version 7 to 8	Changed	On System Management Chipset, Embedded Management, Server utilities, and HPE Tape Backup were revised.
			Product images were updated.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
28-Sep-2015	From Version 6 to 7	Added	Added new 6Gb SATA Solid State Drives.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
17-Aug-2015	From Version 5 to 6	Added	New Solid State Drives offering.

Summary of Changes

			Added new graphic options.
		Changed	Service and Support was updated.
			Maximum Storage was revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
1-Jun-2015	From Version 4 to 5	Added	New Hard Drives were added to Core Options.
			New RDX+ external backup options were added.
		Changed	Standard Features and HPE Power Supplies were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
24-Apr-2015	From Version 3 to 4	Added	Added 813534-B21 and 813535-B21 to HPE Power Supplies.
30-Mar-2015	From Version 2 to 3	Added	New Hard Drives offering.
			Optional Software added to HPE Storage Controllers.
			Added HPE Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller.
		Changed	HPE Memory and HPE Disk Storage Systems were updated.
2-Sep-2014	From Version 1 to 2	Added	Added HPE Insight Software section and Network controller sections.
			Added new HPE Drives and new G4 UPS models.
		Changed	HPE Processors, HPE Memory, HPE Drives, HPE Tape Backup, HPE Disk Backup, HPE Rack Mount Consoles, KVM Switches, and Keyboards, HPE Uninterruptible Power Systems (UPS), and HPE USB and SD Options were updated.



Summary of Changes



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

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