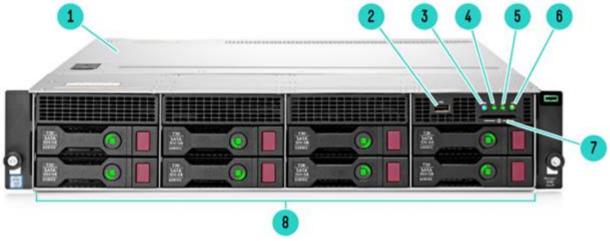
Overview

HPE ProLiant DL80 Generation9 (Gen9)

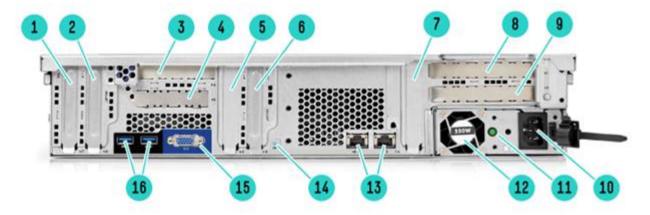
The HPE ProLiant DL80 Gen9 Server is designed with affordable storage, networking and processor scalability, and manageability in a 2U server for cost conscious service provider and SMBs. Apart from basic IT infrastructure workloads this server is ideal for running storage capacity intensive applications like cold storage, back-up due to compelling cost/GB that it offers.



Front View

- 1 Access Panel (Top Cover)
- 3 UID button/LED
- 5 NIC status LED
- 7 Serial label pull tab

- 2 USB 2.0 connector
- 4 Health LED
- 6 Power On/Standby button and system power LED
- 8 8-bay LFF drive cage bay



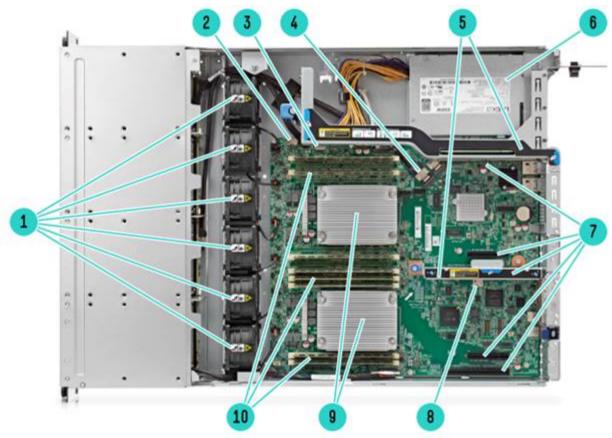
Rear view



Overview

- 1 Slot 7 PCle3 x16 low-profile, standup
- 3 Slot 4 PCle3 x8 low-profile, riser (optional)
- 5 Slot 4 PCle3 x16 low-profile, standup
- 7 Slot 1 PCle3 x16 low-profile, standup
- 9 Slot 2 PCle3 x8 full-height half-length riser (optional)
- 11 Power supply status LED
- 13 Embedded 2x1GbE network adapter
- 15 Video connector

- 2 Slot 6 PCle3 x8 low-profile, standup
- 4 Slot 5 PCle3 x8 FlexibleLOM riser (optional)
- 6 Slot 3 PCle3 x8 low-profile, standup
- 8 Slot 1 PCle3 x16 full-height, full-length GPU riser (optional) or Slot 1 PCle3 x8 (8, 4, 1) full-height, half-length riser (optional)
- 10 Power supply power connection
- 12 Non-hot-plug power supply
- 14 UID LED
- 16 USB 3.0 connectors



Internal View

- 1 Fans shown with 6 Hot-swap fans
- 3 Internal USB 3.0 connector
- 5 PCIe riser kits
- 7 PCIe 3.0 slots
- 9 2 Processors, heatsink showing, with HPE Smart Socket Guide
- 2 HPE Smart Storage Battery connector (optional)
- 4 Embedded HPE Smart Array B140i Controller
- 6 (Under) Non-Hot Plug HPE Power supply
- 8 MicroSD card slot
- 10 HPE DDR4 SmartMemory DIMM slots. Shown fully populated in 8 slots (4 per processor)



Overview

What's New

- HPE Smart Memory 2400 MHz memory
- Intel Xeon E5-2600v4 processor support
- HPE Trusted Platform Module (TPM) 2.0
- New 900W AC/ 240VDC power supply
- New 10TB SATA Hot Plug LFF drives



Standard Features

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

Processor One of the following depending on model

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

Chipset Intel® C610 Series Chipset

One of the Intel® E5-2600v3 Processor Family following Intel® E5-2600v4 Processor Family

depending on NOTE: For more information regarding Intel chipsets, please see the following URL: model

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

On System Management Chipset One of the following

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

depending on model

Standard Features

Memory T

One of the

HPE SmartMemory and Standard Memory

following

DDR4 Registered (RDIMM) or Load Reduced (LRDIMM)

depending on model

(4 DIMM slots per processor, 4 channels per processor,

1 DIMMs per channel)

Maximum Capacity

DIMM Slots Available 8

256GB (8 x 32GB LRDIMM @2400MHz)

(LRDIMM)

Maximum Capacity 256GB (8 x 32GB LRDIMM @2400MHz)

(RDIMM)

Memory
Protection
One of the

model

Advanced ECC uses single device data correction to detect

and correct single and all multibit error that occurs within a

single DRAM chip.

following Online spare depending on

Memory online spare mode detects a rank that is degrading

and switches operation to the spare rank.

Mirroring mode

Memory mirroring inter-socket stores a copy of memory with dynamic failover in case of failure. Once a DIMM in a mirrored set is detected as failed, the mirror failover uses its mirrored

DIMM.

Expansion Slots

Motherboard	Expansion	Technology	Bus	Connector	Bus	Form Factor	Notes
slots	Slots #		Width	Width	Number		
(Standard)	1	PCIe 3.0	x16	x16		Low profile	CPU 1 slots
	3	PCIe 3.0	x8	x8		Low profile	CPU 1 slots
	4	PCIe 3.0	x16	x16		Low profile	CPU 1 slots
	6	PCIe 3.0	x8	x8		Low profile	CPU 2 slots
	7	PCle 3.0	x16	x16		Low profile	CPU 2 slots

NOTE: Bus Width data indicates the number of physical electrical lanes running to the

connector.

Primary Riser	•	Technology	Bus	Connector		Form Factor	Notes
(Optional)	Slots #		Width	Width	Number		
	1	PCle 3.0	x8	x 8		Full-height, half- length slot	CPU 1 slots
	2	PCle 3.0	x8	x 8		Full-height, half- length slot	CPU 1 slots
Flexible LOM	Expansion	Technology	Bus	Connector	Bus	Form Factor	Notes
Riser	Slots #	0,	Width	Width	Number		
(Optional)	4	PCIe 3.0	x8	x8		Low profile	CPU 1 slots
	5	PCle 3.0	x8	x8		Flexible LOM	CPU 1 slots
	NOTE: This	s riser is mand	datory fo	or installing F	TexibleLO	Ms.	
GPU riser	Expansion	Technology	Bus	Connector	Bus	Device Form Fac	ctor Notes
(Optional)	Slots #		Width	Width	Number I	Number	
	1	PCle 3.0	x16	x16		Full-heig	ht, CPU 1
						full-length	slot slots
	NOTE: Whe	en populating	slots or	n second rise	er, a seco	nd processor must	be installed.



Standard Features

Storage Entry Models HPE Dynamic Smart Array B140i Controller

Controller NOTE: Provides support for up to 10 SATA drives and data transmission

One of the speeds up to 6Gb/s and supports RAID 0, 1 & 5.

following Base Models HPE H240 FIO Smart Host Bus Adapter

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

Internal Optical Drives Via USB only
Storage Hard Drives None ship standard

Devices Hard Drive Bays 12 LFF drive bays total without Optical Bay

8 LFF drive bays total without Optical Bay

One of the following depending on model

Maximum **CAPACITY** CONFIGURATION Internal Hot Plug LFF SAS 96.0TB 12 x 8TB (with 12LFF drive cage) Storage Hot Plug LFF SATA 12 x 8TB (with 12LFF drive cage) 96.0TB One of the Hot Plug LFF SATA 46.08TB 12 x 3.84TB (with 12LFF drive cage) following SSD depending on Non Hot Plug LFF 32TB 8 x 4TB (with 8LFF drive cage) model SATA

Power Supply HPE 550W FIO Power Supply

One of the following depending on model

HPE 900W AC 240V DC Redundant Power Supply Looking for high-efficiency power solutions at an entry-level price for your ProLiant Gen9 Essential Server? HPE Entry-Level Power Supplies offer an optimized set of

features with options for both redundant and non-redundant power configurations.

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

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



Standard Features

Non-redundant **System Fans** Redundant

One of the following depending on model

1P model 2 fans 4 fans **NOTE:** Redundant and non-redundant fan counts vary with riser selection. 1P configurations either one of primary and secondary risers need 3 fans in non-

redundant configuration.

Non-redundant Redundant

2P model 4 fans 5 fans

NOTE: Customers may separately purchase redundant fans with the 765516-B21 option kit. Additional fans (two) are also included in -B21 processor option kits when

upgrading from one processor to two processors.

NOTE: All the riser option kits ship with necessary fan option kits.

1 (Vaux Support) Interfaces Video

> 2 x 1GbE ports **LOM Network Ports** SD Slot 1 Micro SD

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

plug an SD card into the SD slot while the server is powered.

Up to 4 USB ports (standard); USB

Front: 1xUSB 2.0 std; (1xUSB2.0 optional upgrade

with quick release ears) Rear: 2xUSB 3.0 Internal: 1x USB 3.0

NOTE: 12LFF drive cage models with Quick release latch rack ears supports front

USB 2.0.

Operating Microsoft Windows Server

Systems and Red Hat Enterprise Linux (RHEL) Virtualization **SUSE Linux Enterprise Server (SLES)**

Software Support for

Oracle Solaris

VMware ProLiant NOTE: For more information on Hewlett Packard Enterprise Certified and Supported Servers

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=7500990

Upgradeable to 2 processors (28 cores) Upgradeability

One of the following depending on model

NOTE: Processor upgrade from E5-2600v3 to E5-2600v4 is supported. Please

refer to DL80 Gen9 User Guide for more details.

Up to 8 DIMM slots

NOTE: To take advantage of DIMMs 5-8, a second processor must be installed. FlexibleLOM slot for 1GbE or 10GbE or QDR/FDR InfiniBand Networking Options

NOTE: To take advantage of the additional 2 PCI slot upgrade, a second

processor must be installed. Redundant Power Supply

Redundant Fan



Standard Features

Industry Standard Compliance ACPI 2.0b Compliant PCIe 3.0 Compliant

PXE Support WOL Support

Microsoft® Logo certifications

USB 3.0 Support ASHRAE A3

NOTE: Supports A3 extended ambience.

NOTE: Refer to technical specifications section for more details.

Graphics

Integrated Matrox G200eH2 video standard

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

HPE Server UEFI/Legacy ROM

Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability and more secured configuration than the legacy ROM while interacting with your server at boot time. HPE ProLiant Gen9 platform defaults to UEFI and can be factory or field configured for Legacy BIOS Boot Mode.

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

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

UEFI enables numerous new capabilities specific to HPE ProLiant servers such as:

- Secure Boot
- · Operating system specific functionality
- Support for > 2.2 TB (using GPT) boot drives
- USB 3.0 Stack
- Embedded UEFI Shell
- Mass Configuration Deployment Tool using RESTful API for iLO 4
- PXE boot support for IPv6 networks
- Boot support for option cards that only support a UEFI option ROM
- Network Stack configurations

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

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

Form Factor One of the

following depending on model 2U Rack form factor

All models ship with Easy Install rails (Cable management arm optional).

8 LFF Drive Bay Version:

3.44 (8.75cm) Height x 17.54" (44.55 cm) Width x 23.9" (60.70 cm) Length

12 LFF Drive Bay Version:

3.44 (8.75cm) Height x 17.54" (44.55 cm) Width x 23.9" (60.70 cm) Length



Standard Features

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

Intelligent Provisioning. Learn more at

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

Embedded Remote Support

Hewlett Packard Enterprise embedded remote support, when used with 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 Insight Manager Servers and HPE Integrity Servers, and also provides you with

basic support for non-HPE servers.

HPE SIM also integrates with Smart Update Manager to provide

quick and seamless firmware updates. Learn more at

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

Scripting Tool

Kit and Windows **PowerShell** Provision 1 to many servers using your own scripts to discover and deploy them with Scripting Tool Kit (STK) for Windows and Linux or Scripting Tools for Windows PowerShell. Learn more at

http://www.hpe.com/servers/proliant/stk or http://www.hpe.com/servers/powershell.

RESTful **Interface Tool**

RESTful Interface tool is a scripting tool to provision using RESTful API for iLO 4 to discover and deploy servers at scale.

Learn more at http://www.hpe.com/info/resttool.

HPE iLO Mobile Enables the ability to access, deploy, and manage your server anytime from anywhere from select smartphones and mobile **Application**

> devices. For additional information please visit: http://www.hpe.com/info/ilo/mobileapp.

HPE Insight HPE Insight Online, available at no additional cost as part of your

Standard Features

Online

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.

Security

Power-on password Serial interface control Administrator's password

TPM 1.2 TPM 2.0

NOTE: TPM 2.0 works only in UEFI Mode.

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 1-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, Emailbased 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.

Rack and **Power** Infrastructure

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

High **Performance** Clusters

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

Optional Features

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 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.



Optional Features

One Config Simple (SCE) SCE is a guided self-service tool to help sales and non-technical people provide customers with initial configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in your existing ordering processes. If you require "custom" rack configuration or configuration for products not available in SCE, please contact Hewlett Packard Enterprise Customer Business Center or an Authorized Partner for assistance. https://h22174.www2.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%¹ reduction in down time, near 100%² diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to Hewlett Packard Enterprise support. 1-IDC 2 – HP CSC reports 2014 - 2015

Recommended Basic: HPE Foundation Care NBD, three-year Support Service Support HPE Foundation Care Next Business Day connects you to Hewlett F

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

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

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

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

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

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

Parts and Materials

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



Service and Support

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).

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.

Services

HPE Education 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

	Entry	Models	Base I	Base Models		
[SKU Number]	830013-B21	778640-B21	833869-B21	778641-B21		
Model Name	HPE ProLiant DL80 Gen9 E5- 2603v4 4GB-R B140i 4LFF Non- hot Plug 550W PS Entry Server	HP ProLiant DL80 Gen9 E5-2603v3 4GB-R B140i 4LFF 550W PS Entry Server	HPE ProLiant DL80 Gen9 E5-2609v4 8GB-R H240 8LFF 550W PS Base Server	HP ProLiant DL80 Gen9 E5-2609v3 8GB-R H240 8LFF 550W PS Entry Server		
Processor	Intel® Xeon® E5- 2603v4	Intel® Xeon® E5- 2603v3	Intel® Xeon® E5- 2609v4	Intel® Xeon® E5- 2609v3		
Number of Processors		(One			
Memory	8GB (1x8GB Registered DIMMs STND, 2400 MHz) NOTE: Due to processor limitation, these DDR4 DIMMs will operate at 1833 MHz in this model.	4GB (1x4GB Registered DIMMs, 2133 MHz) NOTE: Due to processor limitation, these DDR4 DIMMs will operate at 1600 MHz in this model.	8GB (1x8GB Registered DIMMs, 2400 MHz) NOTE: Due to processor limitation, these DDR4 DIMMs will operate at 1833 MHz in this model.	8GB (1x8GB Registered DIMMs, 2133 MHz) NOTE: Due to processor limitation, these DDR4 DIMMs will operate at 1600 MHz in this model.		
Network Controller	HPE	Embedded Dual Port 3	61i Adapter Network Inte	erface		
Storage Controller	HPE Dynamic S	Smart Array B140i	HPE H240 Smart Host Bus Adapter	HPE H240 FIO Smart Host Bus Adapter		
Hard Drive		None sh	ip standard			
Internal Storage	4 LFF HDD Bays (Non Hot Plug) 8 LFF HDD Bays					
Optical Drive Bay		Not A	vailable			
Optical Drive	Optio	nal via HPE Mobile USE	B DVDRW Drive (70149	8-B21)		
PCI-Express Slots		3 PCIe 3.0 slot	ts (Without risers)			
Power Supply		(1) HPE 550W	FIO Power Supply			
Fans	2 hot swap fan	s, non-redundant	4 hot plug fans, redundant	4 hot swap fans, redundant		
Management	_	, ,	Provisioning (standard) only for DL), iLO Advanc	-		
Form Factor	,	Rack (2U), HPE	Easy Install Rails			
Warranty	Server Warranty includes 1-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response					

Country Code xx1 = B21 Key NOTE: The -B2

NOTE: The -B21 WW SKU is to be ordered in all countries other than

Worldwide

Japan or PRC.

xx1 = 291 Japan xx1 = AA1 PRC



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)

[Chassis]	HP ProLiant DL80 Gen9	HP ProLiant DL80 Gen9	HP ProLiant DL80 Gen9			
	Non-hot Plug 4LFF	8LFF Configure-to-order	12LFF Configure-to-order			
	Configure-to-order	Server	Server			
	Server					
SKU Number	778686-B21	778685-B21	787217-B21			
Processor	2 (optional) x HPE Smart Socket Guide					
DIMM Slots	8 DIMM slots for RDIMM, LRDIMM DDR4 Memory					
Storage Controller	HPE Dynamic Smart Array B140i					
PCle		5 Low Profile PCle 3.0 slots				
Drive Cage	4LFF Non Hot Plug	8LFF Hot Plug	12LFF Hot Plug			
Network Controller	HPE Embedded Dual Port 361i Adapter Network Interface					
Fans	2 hot swap fans, non-redundant					
Management	iLO Management (standard), Intelligent Provisioning (standard)					
USB		1 front, 1 internal, 2 rear				

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



Configuration Information - Factory Integrated Models

Processors below,

Select one or two processors from Core Options-Processor section

- If one processor is desired, select one xxxxxx-L21
- If two processors are desired, select one xxxxxx-L21 and one xxxxxx-B21.
- Up to 2 processors supported. Mixing different processor models is not supported.
- DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

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

Select one or more memory from Core Options-Memory section below,

- UDIMM, RDIMM, and LRDIMM are all distinct memory technologies and cannot be mixed within a server.
- HPE memory options from previous generation servers are not qualified or warranted with Hewlett Packard Enterprise Gen9 systems. HPE SmartMemory is required to realize the memory performance improvements and enhanced functionality listed in this document for Gen9.
- 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.
- Depending on the memory configuration and processor model, the memory speed may run at 2400MHz, 2133MHz, 1866MHz or 1600MHz. Please see Memory Population Table or the Online Memory Configuration Tool at:

http://www.hpe.com/go/ddr4config.

Supplies

HPE Power Select one or more power supplies from Core Options-Power Supplies section below:

- Prior to selecting a power supply option, it is highly recommended that you review your server configuration in the HPE Power Advisor tool to determine the right size power supply for your server configuration. The HPE Power Advisor is located at: http://www.hpe.com/go/hppoweradvisor.
- By RPS Enablement Kit power options, mixing of power supplies in the same RPS enablement kit 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.

Step 3: Choose Additional Factory Integratable Options



Configuration Information - Factory Integrated Models

HPE Unique Select one or more Unique options from Core Options section below. **Options**

- This section may contain FIO options, please see the Unique options section below.
- FIO indicates that this option is only available as a factory installable option.

HPE Drives Select one or more drives from Core Options-HPE Drives section below:

- The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.
- Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.
- The HPE ProLiant Gen9 Smart Storage solutions are equipped with re-designed Small Form Factor (SFF 2.5 in) and Large Form Factor (LFF 3.5 in) hot plug carriers for HPE Qualified Hard Drives and Solid State Drives. These new carriers provide status and activity indicators as well as caution indicators for "Do Not Remove."

HPE STEELOM

Select a FlexibleLOM from Core Options-Networking section below,

- Only one FlexibleLOM can be added to the server. These options are upgradeable and can be changed from the original configuration after the server is shipped.
- For 10Gb adapters, a minimum of two Gigabytes (2 GB) of server memory is required per each adapter.
- Please see the QuickSpecs for Technical Specifications and additional information: http://www.hpe.com/qo/ProLiantNICs.

HPE Networking

Select a standup NIC adapter from Core Options-Networking section below,

- Please see the QuickSpecs for Technical Specifications and additional information: http://www.hpe.com/go/ProLiantNICs.
- These options are upgradeable and can be changed from the original configuration after the server is shipped.
- For 10Gb adapters, a minimum of two Gigabytes (2 GB) of server memory is required per each adapter.

HPE Graphics Options

Select one or more graphics adapter from Additional Options section below.

- 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.hpe.com/go/hpepoweradvisor
- This section may contain FIO options, please see HPE Computation & Graphics Accelerators section below.
 Select one or more Fan Kits from Core Options section below.

HPE Cooling Options

- This section may contain FIO options, please see HPE Cooling Options section below.
- FIO indicates that this option is only available as a factory installable option.

Configuration Information - Factory Integrated Models

HPE Storage Controllers

Select one or more Storage options from Additional Options section below.

- The embedded B140i controller will operate in UEFI only mode. For legacy support an additional controller will be needed, and for CTO orders please also select the Legacy mode settings part, 758959-B22.
- This section may contain FIO options, please see HPE Storage Controllers section below.
- FIO indicates that this option is only available as a factory installable option.

HPE I/O Expansion Options

Select one or more Riser Kit options from Core Options section below.

- To take advantage of the additional PCI slot upgrade, the second processor must be installed.
- This section may contain FIO options, please see HPE I/O Expansion Options section below.
- FIO indicates that this option is only available as a factory installable option.

HPE Rail Kits

Select one type of rail kit from Additional Options section below.

- Please take a moment to review the installation documentation that comes with the server to help you with the installation of your Gen9 server.
- To assist in the installation of the server into the rack, an optional installation tool is available by contacting your local services representative (p/n 695539-001).
- See Hewlett Packard Enterprise Rack Options in Additional Options section of this QuickSpecs for more rack kit choices.

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.



Core Options

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

HPE Unique Options	HP DL80 Gen9 8LFF Non-hot Plug Enablement Kit NOTE: Required to upgrade from 4LFF NHP to 8LFF NHP models.	788355-B21
•	HP DL80 Gen9 Full Height Half Length Riser Kit	765515-B21
	NOTE: Includes two FHHL PCle 3.0 slots and one fan.	
	HP DL80 Gen9 GPU Enablement Kit	765518-B21
	NOTE: Includes 1 FHFL slot, one fan and power cable required to	
	enable GPU support. Either one of FHHL or FlexibleLOM riser or	
	GPU riser can be selected.	
	HP DL80 Gen9 FlexibleLOM Riser Kit	765514-B21
	NOTE: Includes one FlexibleLOM slot, one Low Profile slot and one	
	fan.	
	HP AHCI-Enable FIO Setting	801845-B21
	NOTE: This needs to be selected when Advanced Host Controller	
	Interface mode is required on B140i controller.	

HPE Processors E5-2600v4 series Processors

HPE DL80 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-	803091-B21
core/20MB/85W) Processor Kit	003091-021
HPE DL80 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-	803091-L21
core/20MB/85W) FIO Processor Kit	000001 221
HPE DL80 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-	803093-B21
core/15MB/85W) Processor Kit	
HPE DL80 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-	803093-L21
core/15MB/85W) FIO Processor Kit	
HPE DL80 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-	803095-B21
core/35MB/65W) Processor Kit	
HPE DL80 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-	803095-L21
core/35MB/65W) FIO Processor Kit	000007 504
HPE DL80 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-	803097-B21
core/25MB/55W) Processor Kit	002007 1 24
HPE DL80 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) FIO Processor Kit	803097-L21
HPE DL80 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-	803087-B21
core/20MB/85W) Processor Kit	003007-D21
HPE DL80 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-	803087-L21
core/20MB/85W) FIO Processor Kit	000007 EE1
HPE DL80 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-	803089-B21
core/10MB/85W) Processor Kit	
HPE DL80 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-	803089-L21
core/10MB/85W) FIO Processor Kit	
HPE DL80 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-	803079-B21
core/35MB/105W) Processor Kit	
HPE DL80 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-	803079-L21
core/35MB/105W) FIO Processor Kit	
HPE DL80 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-	803081-B21
core/30MB/105W) Processor Kit	000004 1 04
HPE DL80 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-	803081-L21
core/30MB/105W) FIO Processor Kit	



Core Options

HPE DL80 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-	803083-B21
core/25MB/90W) Processor Kit HPE DL80 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-	803083-L21
core/25MB/90W) FIO Processor Kit	
HPE DL80 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) Processor Kit	803085-B21
HPE DL80 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-	803085-L21
core/25MB/85W) FIO Processor Kit	
E5-2600v3 series Processors	
HP DL80 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-	765521-B21
core/15MB/85W) Processor Kit	
HP DL80 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-	765521-L21
core/15MB/85W) FIO Processor Kit	
HP DL80 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-	765523-B21
core/15MB/85W) Processor Kit	. 00020 22 .
HP DL80 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-	765523-L21
core/15MB/85W) FIO Processor Kit	700020 LZ 1
HP DL80 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-	765525-B21
core/15MB/85W) Processor Kit	700020-021
HP DL80 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-	765505 04
· ·	765525-L21
core/15MB/85W) FIO Processor Kit	705500 D04
HP DL80 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-	765526-B21
core/20MB/85W) Processor Kit	705500104
HP DL80 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-	765526-L21
core/20MB/85W) FIO Processor Kit	
HP DL80 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-	765530-B21
core/20MB/55W) Processor Kit	
HP DL80 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-	765530-L21
core/20MB/55W) FIO Processor Kit	
HP DL80 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-	765531-B21
core/20MB/90W) Processor Kit	
HP DL80 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-	765531-L21
core/20MB/90W) FIO Processor Kit	
HP DL80 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-	780100-B21
core/10MB/105W) Processor Kit	
HP DL80 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-	780100-L21
core/10MB/105W) FIO Processor Kit	
HP DL80 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-	765528-B21
core/25MB/105W) Processor Kit	
HP DL80 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-	765528-L21
core/25MB/105W) FIO Processor Kit	
HP DL80 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-	765529-B21
core/25MB/105W) Processor Kit	
HP DL80 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-	765529-L21
core/25MB/105W) FIO Processor Kit	
HP DL80 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-	765532-B21
core/30MB/65W) Processor Kit	
HP DL80 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-	765532-L21
core/30MB/65W) FIO Processor Kit	
NOTE: Processor upgrade from E5-2600v3 to E5-2600v4 is supported. F	Please refer to
DL 00 Con Older francour details	



DL80 Gen9 User Guide for more details.

Core Options

HPE	Mass	
прс	wer	norv

Registered DIMMs (RDIMMs) for E5-2600v4 Series HP 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17	805347-B21
Registered Memory Kit	000047-021
HP 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805349-B21
HPE 16GB (1x16GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	836220-B21
HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805351-B21
NOTE: These DIMMs are supported only with E5-2600v4 processors.	
Registered DIMMs (RDIMMs) for E5-2600v3 Series	
HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726717-B21
HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726718-B21
HP 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15	759934-B21
Registered Memory Kit HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15	726719-B21
Registered Memory Kit HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15	728629-B21
Registered Memory Kit NOTE: These DIMMs are supported only with E5-2600v3 processors.	
Load Reduced DIMMs (LRDIMMs) for E5-2600v4 Series	
HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit	805353-B21
NOTE: These DIMMs are supported only with E5-2600v4 processors.	
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
HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726722-B21
NOTE: These DIMMs are supported only with E5-2600v3 processors.	
HPE Standard Memory for E5-2600v4 Series	
HPE 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17	851353-B21
Registered Standard Memory Kit	
NOTE: These memory options are available as standalone only and car	not be
configured in the factory. These are standard memory DIMMs with no Sr	
features.	
NOTE: The see DIMMe and a comment of an investigation of the EE 0000 of a comment	

NOTE: These DIMMs are supported only with E5-2600v4 processors.

HPE Standard Memory for E5-2600v3 Series

HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15	803026-B21
Registered Standard Memory Kit	
HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15	803028-B21
Registered Standard Memory Kit	

NOTE: These memory options are available as standalone only and cannot be configured in the factory. These are standard memory DIMMs with no Smart Memory features.

NOTE: These DIMMs are supported only with E5-2600v3 processors.



Core Options HPE Optical Drives	HP Mobile USB Non Leaded System DVD RW Drive	701498-B21
HPE Drives	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	801888-B21
	Warranty Hard Drive 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
	SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives HPE 8TB 6G SATA 7.2K rpm LFF (3.5in) 512e SC Midline 1yr	819203-B21
	Warranty Hard Drive HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765255-B21
	HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765253-B21
	HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	753874-B21
	HP 4TB 6G SATA 7.2k rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	693687-B21
	HPE 4TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	861678-B21
	HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	628061-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 Midline 1yr Warranty Hard Drive	861676-B21
	HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	657750-B21
	HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658071-B21
	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 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	861691-B21
	HPE 3TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	861693-B21



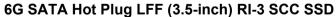
Core Options

6G SATA SC Hot Plug LFF 7.2K (3.5-inch) Standard Drives	
HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Standard 1yr Warranty Hard Drive	858594-B21
HPE 2TB 6G SATA 7.2K rpm LFF (3.5in) SC Standard 1yr Warranty Hard Drive	858596-B21
6G SATA Hot Plug LFF (3.5-inch) SC 512e Performance Drives	
HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives	793665-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793667-B21
6G SATA Hot Plug with SmartDrive LFF (3.5-inch) Midline 512e Heli	um Drives
HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793695-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr	793683-B21
Warranty Hard Drive	
SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives	040004 D04
HPE 8TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	819201-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765259-B21
HP 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	761477-B21
HP 4TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty	695510-B21
Hard Drive HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr	765257-B21
Warranty Hard Drive	
HPE 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	818367-B21
HP 3TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652766-B21
HP 2TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty	652757-B21
Hard Drive HP 1TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty	652753-B21
Hard Drive HPE 2TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr	818365-B21
Warranty Hard Drive	
HPE 1TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846524-B21
HPE 3TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846528-B21
SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives	
HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter	765424-B21
Enterprise 3yr Warranty Hard Drive	700424-021
HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter	737394-B21
Enterprise 3yr Warranty Hard Drive HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter	737261-B21
Enterprise 3yr Warranty Hard Drive 12G SAS Hot Plug LFF (3.5-inch) SC 512e Performance Drives	·
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance	793669-B21
1yr Warranty Hard Drive HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance	793671-B21
1yr Warranty Hard Drive	



Core Options

400 040 Hat Bloom One and Bullion LEE (0.5 in als.) Mitallians 540 a Hallions D	
12G SAS Hot Plug SmartDrive LFF (3.5-inch) Midline 512e Helium D	
HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr	793703-B21
Warranty Hard Drive	
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr	793699-B21
Warranty Hard Drive	
12G SAS Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drive	s
HP 1.6TB 12G SAS Value Endurance LFF 3.5-in SC Enterprise	762272-B21
Value 3yr Wty Solid State Drive	. 022.2 32.
HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Enterprise	762270-B21
·	102210-021
Value 3yr Wty Solid State Drive	Dulasa
6G SATA Hot Plug LFF (3.5-inch) Enterprise Mainstream Solid State	
HP 200GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty	804642-B21
Solid State Drive	
HP 400GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty	804668-B21
Solid State Drive	
HP 800GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty	804674-B21
Solid State Drive	
HP 1.2TB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid	804680-B21
State Drive	00+000 BZ I
6G SATA Hot Plug LFF Value Endurance (3.5-inch) Converter Enter	price
	prise
Value M1 Solid State Drives	
HP 200GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid	804616-B21
State Drive	
HP 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid	804628-B21
State Drive	
HP 1.6TB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid	804634-B21
State Drive	
HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid	832417-B21
State Drive	
6G SATA Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drive	.e
HP 80GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid	804578-B21
State Drive	004570-BZ1
	004504 D04
HP 120GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty	804584-B21
Solid State Drive	
HP 240GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty	804590-B21
Solid State Drive	
HP 480GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty	804596-B21
Solid State Drive	
HP 800GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty	804602-B21
Solid State Drive	
HP 1.6TB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid	804608-B21
State Drive	55 1000 DZ 1
6C SATA Hat Divis I EE /2 5 inah) DI 2 SCC SSD	





Core Options

HP 3.84TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr	816933-B21
Wty Solid State Drive	
HP 1.92TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive	816923-B21
HP 960GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr	816913-B21
Wty Solid State Drive	010010 021
HP 480GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr	816903-B21
•	010903-021
Wty Solid State Drive	040000 004
HP 240GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr	816893-B21
Wty Solid State Drive	
HP 120GB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr	816883-B21
Wty Solid State Drive	
6G SATA Hot Plug LFF (3.5-inch) MU-3 SCC SSD	
HP 1.92TB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty	817015-B21
Solid State Drive	
HP 960GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty	816999-B21
Solid State Drive	0.0000 52.
HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty	816989-B21
Solid State Drive	010303-B21
HP 240GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty	816979-B21
Solid State Drive	010979-021
	040000 004
HP 120GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty	816969-B21
Solid State Drive	
M.2 SSD	
HP Dual 120GB Value Endurance Solid State M.2 Enablement Kit	777894-B21
for ProLiant ML/DL Servers	
HP 120GB Value Endurance Solid State M.2 Enablement Kit for	788028-B21
ProLiant ML/DL Servers	
NOTE: M.2 drives go in PCle slot and use B140i SATA controller only.	
Hard Drive Blank Kits	
HP Large Form Factor Hard Drive Blank Kit	666986-B21
Hard Drive Kits	000000 22 .
HP DL80 Gen9 8LFF Non-hot Plug Enablement Kit	788355-B21
NOTE: Required to move from 4LFF NHPE model to 8 LFF NHPE	1 00000-DZ I
· · · · · · · · · · · · · · · · · · ·	
model.	



Core Options HPE Networking 1 Gigabit Ethernet adapters HP Ethernet 1Gb 4-port 331T Adapter 647594-B21 HP Ethernet 1Gb 4-port 366T Adapter 811546-B21 HP Ethernet 1Gb 2-port 332T Adapter 615732-B21 HP Ethernet 1Gb 2-port 361T Adapter 652497-B21 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter 652503-B21 HP Ethernet 10Gb 2-port 530T Adapter 656596-B21 HP Ethernet 10Gb 2-port 561T Adapter 716591-B21 HP Ethernet 10Gb 2-port 560SFP+ Adapter 665249-B21 HP Ethernet 10Gb 2-port 546SFP+ Adapter 779793-B21 HPE Ethernet 10Gb 2-port 562SFP+ Adapter 727055-B21 HPE FlexFabric 10Gb 4-port 536FLR-T Adapter 764302-B21 25 Gigabit Ethernet adapters HPE Ethernet 4x25Gb 1-port 620QSFP28 Adapter 817762-B21 FlexibleLOM Adapters HP Ethernet 1Gb 4-port 366FLR Adapter 665240-B21 HP Ethernet 10Gb 2-port 561FLR-T Adapter 700699-B21 HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter 700751-B21 HP FlexFabric 10Gb 2-port 533FLR-T Adapter 700759-B21 HP Ethernet 10Gb 2-port 546FLR-SFP+ Adapter 779799-B21 HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter 665243-B21 HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter 727054-B21 **HPE InfiniBand** HP InfiniBand FDR 2-port 545QSFP Adapter 702211-B21 HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter 764284-B21 HPE I/O HP DL80 Gen9 FlexibleLOM Riser Kit 765514-B21 NOTE: Includes one FlexibleLOM slot, one Low Profile slot and one Expansion **Options** HP DL80 Gen9 Full Height Half Length Riser Kit 765515-B21 NOTE: Includes two FLFH PCIe 3.0 slots and one fan. HP DL80 Gen9 GPU Enablement Kit 765518-B21 **NOTE:** Includes 1 FHFL slot, one fan and power cable required to enable GPU support. Either one of FHHL or FlexibleLOM riser or GPU riser can be selected.



828734-B21

820792-B21

QuickSpecs

Core Options

HPE Power Supplies

HPE Entry-Level Power Supplies

HPE 550W Standard FIO Power Supply Kit 730941-B21

NOTE: This is a Factory Installed Option (FIO) only.

NOTE: Supports Silver-level efficiency (89%) with a standard C14 inlet connector. No support for HPE Power Discovery Services. Only compatible with select HPE ProLiant Gen9 Essential servers.

HPE 900W Standard AC 240VDC Power Input Module FIO Kit

NOTE: This is a Factory Installed Option (FIO) only.

NOTE: RPS Backplane is mandatory to be chosen with this power input module.

HPE 900W Standard AC 240VDC RPS Power Backplane FIO Kit 828735-B21

NOTE: This is a Factory Installed Option (FIO) only.

NOTE: This RPS backplane is mandatory to be chosen along with 900W RPS

input module.

HPE 900W Standard AC 240VDC Power Input Module 775595-B21

NOTE: This part number can only be bought standalone and is for field integration only.

NOTE: RPS Backplane is mandatorily needed with this power input module.

HPE 900W Standard AC 240VDC RPS Power Backplane 814835-B21

NOTE: This part number can only be bought standalone and is for field integration only.

NOTE: This RPS backplane is mandatorily needed with 900W RPS input module.

HPE 900W Standard AC 240VDC Redundant Power Supply Kit

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 integrable option.

NOTE: This Power supply supports both 100-240V AC and 240V DC.

NOTE: Supports Gold-level efficiency (92%) with a standard C14 inlet connector. No support for HPE

Power Discovery Services. Only compatible with select HPE ProLiant Gen9 Essential servers.

NOTE: HPE 900W Gold (Redundant) AC 240VDC Power Input Module (775595-B21/ 828734-B21) must be used with Power Backplane (814835-B21).

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

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

Power Input Module.

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

NOTE: Prior to selecting a power supply option, it is highly recommended that you review



Core Options

your server configuration in the HPE Power Advisor tool to determine the right size power supply for your server configuration. The HPE Power Advisor is located at:

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

HPE Computation HP NVIDIA Quadro K2200 Graphics Accelerator

J0G89A

and Graphics
Accelerators

NOTE: GPU enablement kit (P/N: 765518-B21) is required with this

option.

NOTE: 1 GPU supported per Server, attached to the Primary CPU.

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

server.

NOTE: The NVIDIA Quadro modules 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 DL80 Gen9 Redundant Fan Kit

765516-B21

NOTE: Includes two fans and is required to move from non-redundant to redundant fan configurations. Since each riser includes a fan as well, please refer to user-guide for exact fan requirements to enable fan redundancy.

Additional Options

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

HPE	Insight
Softv	ware

HPE Insight Control

HPE Insight Control including 1yr 24x7 Technical Support and

C6N27A

Updates 1-server LTU

HPE Insight Control including 1yr 24x7 TSU E-LTU

C6N28ABE

HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-

HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-

C6N36A

bundle Single Server FIO LTU

C6N36ABE

bundle FIO E-LTU

HPE Insight Management Media Kit

C6N31A

NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple

licenses with a single activation key.

NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24x7 HPE Software Technical Support and Update Service. NOTE: Licenses ship without media. The HPE Insight Control Media Kit can be ordered

separately, or can be downloaded at: http://www.hp.com/qo/insightupdates.

NOTE: For additional license options please see the QuickSpecs at:

https://www.hpe.com/h20195/v2/gethtml.aspx?docname=c04123391.

Embedded Management

HPE iLO Advanced

HPE iLO Advanced including 1yr 24x7 Technical Support and 512485-B21

Updates 1-server LTU

HPE iLO Advanced including 3yr 24x7 Tech Support and Updates **BD505A**

1-server LTU

HPE iLO Advanced including 1yr 24x7 Technical Support and E6U59ABE

Updates E-LTU

HPE iLO Advanced including 3yr 24x7 Technical Support and E6U64ABE

Updates E-LTU

HPE iLO Essentials

HPE iLO Essentials including 3yr 24x7 Tech Support and Updates **BD774A**

1-server LTU

HPE iLO Essentials including 1yr 24x7 Tech Support and Updates BD775A

1-server LTU

HPE iLO Essentials including 3yr 24x7 Technical Support and E6U61ABE

Updates E-LTU

HPE iLO Essentials including 1yr 24x7 Technical Support and E6U62ABE

Updates E-LTU

HPE iLO Scale-out



40	P	dellei atiolis (dells
Additional Option	ons	
	HPE iLO Scale-Out 3yr 24x7 Tech Support and Updates Flexible Quantity LTU	BD776A
	HPE iLO Scale-Out including 3yr 24x7 Tech Support and Updates Flex Qty E-LTU	BD776AAE
	HPE iLO Scale-Out including 3yr 24x7 Tech Support and Updates Tracking LTU	BD777A
	HPE iLO Scale-Out 1yr 24x7 Tech Support and Updates Flexible Quantity LTU	BD778A
	HPE iLO Scale-Out including 1yr 24x7 Tech Support and Updates Flex Qty E-LTU	BD778AAE
	HPE iLO Scale-Out including 1yr 24x7 Tech Support and Updates Tracking LTU	BD779A
HPE Converge	edHPE OneView	
Infrastructure	HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
Management	HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
Software	HPE OneView Physical Media Kit LTU	E5Y37A
	HPE OneView for ProLiant DL Server including 3yr 24x7 Support	E5Y43A
	FIO Bundle Physical 1-server LTU	2011070
	HPE OneView without iLO Advanced	
	HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU	P8B24A
	HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server	P8B25A
	LTU	POD25A
	HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU	P8B26AAE
	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A
	HPE Operations Analytics for HPE OneView LTU	K8G29A
	HPE Operations Analytics for HPE OneView E-LTU	K8G29AAE
	NOTE: Full licenses of HPE OneView Advanced also provide the	NOGZSAAL
	·	
	right-to-use HPE Insight Control without additional charge.	
	NOTE: Server provisioning (via 'HPE Insight Control server	
	provisioning') is licensed as part of HPE OneView Advanced and	
	provides multi-server OS and driver provisioning. Media kit	
	#BD883A can be ordered for a physical copy of this software (USB	
	flash drive).	
	NOTE: Licenses ship without media. The HPE OneView Media Kit	
	can be ordered separately, or can be downloaded at:	
	http://www.hp.com/go/oneview	
	NOTE: Electronic and Flexible-Quantity licenses can be used to	
	purchase multiple licenses with a single activation key.	
HPE Security	HP Trusted Platform Module 2.0 Kit	745823-B21
	HP Trusted Platform Module Option	488069-B21
	HP 2U Security Bezel Kit	666988-B21
	NOTE: Quick Release Ear FIO kit (P/N: 778109-B21) is required for	
	installing security bezel.	
	HP DL80 Gen9 Quick Release Ear FIO Kit	778109-B21
	NOTE: Quick Pologgo Fare are mandatory for 12LEE models	



NOTE: Quick Release Ears are mandatory for 12LFF models.

HP DL80 Gen9 Thumbscrew Ear FIO Kit

787211-B21

Additional Options

HPE	Storage
Cont	rollers

SAS Controllers

HPE Smart Array	y Controllers
------------------------	---------------

HPE Smart Array Controllers	
HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller	726821-B21
HP Smart Array P440/2GB FBWC 12Gb 1-port Int SAS Controller	820834-B21
NOTE: Includes the HPE Smart Storage Battery.	
HP Smart Array P840/4GB FBWC 12Gb 2-ports Int SAS Controller	726897-B21
HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller	726825-B21
HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS	761872-B21
Controller	
NOTE: Includes the HPE Smart Storage Battery.	
HP Smart Array P840/4GB FBWC 12Gb 2-ports Int FIO SAS	761874-B21
Controller	
NOTE: Includes the HPE Smart Storage Battery.	
HP Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller	726903-B21
HPE Smart Host Bus Adapters	
HP H240 12Gb 2-ports Int Smart Host Bus Adapter	726907-B21
HP H240 12Gb 2-ports Int FIO Smart Host Bus Adapter	761873-B21
HP H241 12Gb 2-ports Ext Smart Host Bus Adapter	726911-B21
HPE Cable Options	
HP DL60/80/120 Gen9 4LFF Cable FIO Kit	777331-B21
HP DL80 Gen9 LFF Smart Array P440/P840 SAS Cable Kit	779619-B21
NOTE: One cable kit must be selected with P440 controller.	
NOTE: Two of these cable kits must be selected with P840	

HP DL80 Gen9 LFF Smart HBA H240 SAS Cable Kit

779622-B21

NOTE: Two cable Kits must be selected with H240.

NOTE: One of the above cables is required to be selected depending on the combination of chassis and storage controller. Cable option kit descriptions include the right chassis and storage controllers names.

NOTE: FIO indicates that this option is only available as a factory installable option. Please select FIO option if you want the option to be factory installed.

NOTE: NHPE server chassis (Mod-x) includes SATA cables required to connect drives to embedded B140i SATA controller.

Optional Software

HPE SmartCache No Media 24x7 Technical Support 1-server LTU	D7S26A
HPE SmartCache No Media 24x7 Technical Support Flexible LTU	D7S27A
HPE SmartCache No Media 24x7 Technical Support E-LTU	D7S27AAE

NOTE: HPE SmartCache is supported when one of the supported Smart Array Controllers is installed in the server.

NOTE: HPE SmartCache comes standard (no licensing is required) if the HPE Smart Array P840 Controller is installed in the server.

Optional Upgrades

HP 96W Smart Storage Battery with 145mm Cable for DL/ML/SL 727258-B21

NOTE: This option is mandatorily required with HPE Smart Array controllers. One server can accommodate only 1 Smart Storage Battery that would suffice the requirement of all HPE Smart Array controllers.



Additional Options

HPE Tape Backup

NOTE: For the complete range of tape drives, autoloaders, libraries and media see: http://www.hp.com/go/tape. For hardware and software compatibility of HPE tape

backup products http://www.hpe.com/storage/BURAcompatibility.

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

Tape	Drives
Tabe	Drives

HPE StoreEver LTO-7 Ultrium 15000 External Tape Drive HPE StoreEver LTO-6 Ultrium 6650 SAS External Tape Drive HPE StoreEver LTO-6 Ultrium 6250 External Tape Drive HPE StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive HPE StoreEver LTO-5 Ultrium 3280 SAS External Tape Drive	BB874A EH964A EH970A EH958B EH900B
HPE StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive	EH920B
HPE StoreEver LTO-3 Ultrium 920 SAS External Tape Drive	EH848B
HPE StoreEver Mini-SAS High Density to 4-lane Mini-SAS External Fanout 2m Cable	K2R09A
HPE StoreEver Mini-SAS High Density to 4-lane Mini-SAS External	K2R10A
Fanout 4m Cable	
Tape Libraries	
HPE StoreEver MSL2024 0-drive Tape Library	AK379A
HPE StoreEver MSL4048 0-drive Tape Library	AK381A
HPE Tape Storage Systems	
HPE StoreEver 1U SAS Rack Mount Kit	AE459B
HPE StoreEver LTO-4 Ultrium 1760 SAS (1) in a 1U Rack Mount Kit	EH946C
HPE StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in a 1U Rack Mount Kit	EJ014B
HPE StoreEver LTO-6 Ultrium 6250 Tape Drive in a 1U Rack Mount	C0L99A
Kit	COLSSA
HPE StoreEver 1/8 G2 LTO-6 Ultrium 6250 Fibre Channel Tape	C0H19A
Autoloader	
HPE StoreEver MSL6480	0110054
HPE StoreEver MSL6480 Scalable Base Module	QU625A
HPE StoreEver MSL6480 Scaleable Expansion Module	QU626A

HPE Disk Backup

HPE RDX Removable DISK Backup System	
HPE RDX+ 3TB USB 3.0 External Disk Backup System	P9L72A
HP RDX 2TB USB3.0 External Disk Backup System	E7X53B
HP RDX+ 500GB External Backup System	B7B66B
HP RDX+ 1TB External Backup System	B7B69B
HPE RDX 3TB USB 3.0 Internal Disk Backup System	P9L71A
HPE RDX+ External Docking System	C8S07B
HPE D3700 Enclosure	QW967A
HPE D3600 Enclosure	QW968A
HPE StoreOnce Backup systems	
HPE StoreOnce 3100 8TB System	BB913A
HPE StoreOnce 3520 12TB System	BB922A
HDE StoreOnce 35/0 2/TR System	RR01/Δ

HPE StoreOnce 3100 81B System	BB913A
HPE StoreOnce 3520 12TB System	BB922A
HPE StoreOnce 3540 24TB System	BB914A
HPE StoreOnce 5100 48TB System	BB915A



Additional Options

Additional Uptions					
HPE Storage	Emulex Fibre Channel HBAs				
Options	HPE 81E 8Gb 1-port PCle Fibre Channel Host Bus Adapter	AJ762B			
-	HPE 82E 8Gb 2-port PCle Fibre Channel Host Bus Adapter	AJ763B			
	HPE StoreFabric SN1100E 16Gb Single Port Fibre Channel Host	C8R38A			
	Bus Adapter	000004			
	HPE StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter	C8R39A			
QLogic Fibre Channel HBAs HPE 82Q 8Gb 2-port PCle Fibre Channel Host Bus Adapter HPE 81Q 8Gb 1-port PCle Fibre Channel Host Bus Adapter		AJ764A			
		AK344A			
	HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host	QW971A			
	Bus Adapter	QVV01 IIV			
	HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host	QW972A			
	Bus Adapter				
	Converged Network Adapter				
	HPE StoreFabric CN1200E 10Gb Converged Network Adapter	E7Y06A			
	HPE StoreFabric CN1100R Dual Port Converged Network Adapter	QW990A			
	HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged	N3U51A			
	Network Adapter	11011504			
	HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged	N3U52A			
	Network Adapter				
HPE Disk	Disk Enclosures				
Storage	HP D6000 Dual I/O Module Disk Enclosure	QQ695A			
Systems	HP D6000 w/35 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 140TB	E7W30A			
-,	Bundle				
	HP D6000 w/70 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 280TB	E7W31A			
	Bundle				
	HP D6000 w/70 3TB 6G SAS 7.2K LFF Dual port MDL HDD 210TB	QQ700A			
	Bundle	000004			
	HP D6000 w/70 2TB 6G SAS 7.2K LFF Dual port MDL HDD 140TB Bundle	QQ698A			
	HP D6000 w/35 2TB 6G SAS 7.2K LFF Dual port MDL HDD 70TB	QQ697A			
	Bundle	4400771			
	HP D6000 w/35 3TB 6G SAS 7.2K LFF Dual port MDL HDD 105TB	QQ699A			
	Bundle				
	HPE D6000 w/35 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL	M0T58A			
	HDD 280TB Bundle	NAOTEO 4			
	HPE D6000 w/70 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL	M0T59A			
	HDD 560TB Bundle				



Additional Options

Н	P	Ε	Da	ata		
C	e	nt	er	Ra	ас	ks

HPE Advanced Series Racks

HPE 11648 1075mm Pallet Universal Rack	H6J87A
HPE 11648 1075mm Shock Universal Rack	H6J88A
HPE 11642 1075mm Pallet Universal Rack	H6J65A
HPE 11642 1075mm Shock Universal Rack	H6J66A
HPE 11642 1200mm Pallet Universal Rack	H6J67A
HPE 11642 1200mm Shock Universal Rack	H6J68A
HPE 11636 1075mm Pallet Universal Rack	H6J77A
HPE 11636 1075mm Shock Universal Rack	H6J78A
HPE 11622 G2 1075mm Pallet Universal Rack	H6J83A
HPE 11622 G2 1075mm Shock Universal Rack	H6J84A
HPE 11614 1075mm Shock Universal Rack	H6J82A

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

HPE Enterprise Series Racks

HPE 647 1075mm Pallet Intelligent Series Rack	BW911A
HPE 647 1075mm Shock Intelligent Series Rack	BW912A
HPE 647 1200mm Pallet Intelligent Series Rack	BW913A
HPE 647 1200mm Shock Intelligent Series Rack	BW914A
HPE 642 1075mm Pallet Intelligent Series Rack	BW903A
HPE 642 1075mm Shock Intelligent Series Rack	BW904A
HPE 642 1200mm Pallet Intelligent Series Rack	BW907A
HPE 642 1200mm Shock Intelligent Series Rack	BW908A
HPE 636 1075mm Pallet Intelligent Series Rack	BW895A
HPE 636 1075mm Shock Intelligent Series Rack	BW896A
HPE 842 1075mm Pallet Intelligent Series Rack	BW917A
HPE 842 1075mm Shock Intelligent Series Rack	BW918A

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

HPE Standard Series Rack

HPE V142 1075mm deep Pallet 100 series Rack

AF046A

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

HPE Power Distribution Units (PDUs)

HPE Basic Power	Distribution	Units	(PDU)
-----------------	--------------	-------	-------

HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizonta NA/JP PDU	I H5M54A
HPE Basic 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU	H5M56A
HPE Basic 2.8kVA/L5-30P 24A/120V Outlets (18) 5-20R/Vertical NA/JP PDU	H5M55A
HPE Basic 4.9kVA/60320 C20 Detachable 16A/230V Outlets (20)	H5M57A
C13/Vertical WW PDU HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (20) C13/Vertical	H5M58A
NA/JP PDU HPE Basic 7.3kVA/60309 5-wire 32A/230V Outlets (20)	H5M68A
C13/Vertical INTL PDU HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18)	H5M61A
C13/Vertical NA/JP PDU HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (24) C13 (6)	H5M59A
C19/Vertical NA/JP PDU	



Additional Options

HPE Basic 7.3kVA/60309 3-wire 32A/230V Outlets (24) C13 (6) C19/Vertical INTL PDU	H5M70A		
HPE Basic 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (6) C19/Vertical NA PDU	H5M60A		
HPE Basic 11kVA/60309 63A 3-wire 48A/230V Outlets (30) C13 (6) C19/Vertical INTL PDU	H5M71A		
HPE Basic 9.2kVA/50A Terminal Block 40A/230V Outlets (30) C13 (6) C19/Vertical WW PDU	H5M75A		
HPE Basic 3Ph 5.7kVA/ L21-20P 16A/120-208V Outlets (24) C13 (3) 5-20R/Vertical NA/JP PDU	H5M63A		
HPE Basic 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (24) C13 (3) C19 (3) 5-20R/Vertical NA/JP PDU	H5M64A		
HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU	H5M62A		
HPE Basic 3Ph 11kVA/60309 5-wire 16A/230V Outlets (24) C13 (6) C19/Vertical INTL PDU	H5M72A		
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 7.3kVA/60309 3-wire 32A/230V Outlets (4) C19/Horizontal INTL Core Only PDU	252663-B33		
HPE Basic Modular 9.2kVA/60309 63A 3-wire 40A/230V Outlets (4) C19/Horizontal INTL PDU	252663-B34		
HPE Basic Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF512A		
HPE Basic Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU	AF513A		
HPE Basic Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF519A		
HPE Basic Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF511A		
HPE Basic Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU	AF518A		
HPE Basic 3Ph 11kVA/60309 5-wire 16A/230V Outlets (36) C13 (6) C19/Vertical INTL PDU	H5M73A		
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)



Additional Options

LIDE Material 2 01/1/1 E 20D 244/420\/ Outlate /42\/ E	DONIAGA
HPE Metered 2.8kVA/L5-30P 24A/120V Outlets (12) 5-	D9N43A
20R/Horizontal NA/JP PDU	DONIACA
HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12)	D9N46A
C13/Horizontal WW PDU	DONAAA
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Horizontal NA/JP PDU	D9N44A
	DONAEA
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	G9Z05A
NA/JP PDU	G9ZUJA
HPE Metered 7.3kVA/60309 3-wire 32A/230V Outlets (12)	G9Z06A
C13/Vertical INTL PDU	UJZUUA
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4)	D9N47A
C19/Vertical NA/JP PDU	DUNTIA
HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlets (20) C13 (4)	D9N48A
C19/Vertical INTL PDU	DOINTOIN
HPE Metered 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (3)	D9N51A
C19/Vertical NA/JP PDU	20110171
HPE Metered 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (18) C13	D9N53A
(3) C19 (3) 5-20R/Vertical NA/JP PDU	
HPE Metered 3Ph 11kVA/60309 5-wire 16A/230V Outlets (18) C13	D9N55A
(3) C19/Vertical INTL PDU	
HPE Metered 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (3)	D9N49A
C19/Vertical NA PDU	
HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlets (32) C13 (4)	D9N50A
C19/Vertical INTL PDU	
HPE Metered 3Ph 11kVA/60309 5-wire 16A/230V Outlets (30) C13	D9N57A
(3) C19/Vertical INTL PDU	
HPE Metered 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13	D9N58A
(12) C19/Vertical NA/JP PDU	
HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V	D9N61A
Outlets (30) C13 (3) C19/Vertical NA/JP PDU	
HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V	D9N62A
Outlets (12) C13 (12) C19/Vertical NA/JP PDU	DONEAA
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets	D9N54A
(24) C13 (3) C19/Vertical NA/JP PDU	DONICOA
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets	D9N59A
(12) C13 (12) C19/Vertical NA/JP PDU	C07074
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-	D9N63A
203P-HP/Vertical NA PDU	DanosA
HPE Metered 3Ph 22kVA/60309 5-wire 32A/230V Outlets (30) C13	D9N56A
(3) C19/Vertical INTL PDU	Donoon
HPE Metered 3Ph 22kVA/60309 5-wire 32A/230V Outlets (12) C13	D9N60A
(12) C19/Vertical INTL PDU	B0110071
HPE Metered 3Ph 22kVA/60309 5-wire WT 32A/230V Outlets (12)	G9Z08A
C13 (12) C19/Vertical INTL PDU	
HP Environmental Sensor for Remote Monitored and Managed	E2D53A
PDUs	
NOTE: Places and the UPE Metaward Power Distribution Units (PDU) Qui	iak@naaa

NOTE: Please see the <u>HPE Metered Power Distribution Units (PDU) QuickSpecs</u> for information on additional options and product specifications.

HPE Intelligent Power Distribution Unit (PDU)



Additional Options

HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6)	AF520A
C19/Horizontal NA/JP PDU	
HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6)	AF521A
C19/Horizontal NA/JP PDU	
HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF522A
	A E E O O A
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	AF901A
(6) C19/Horizontal NA/JP PDU	711 00 171
HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6)	AF525A
C19/Horizontal INTL PDU	
HPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets	AF526A
(6) C19/Horizontal INTL PDU	, o_o, .
HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets	AF527A
(6) C19/Horizontal INTL PDU	
HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire	AF535A
48A/208V (12) C19/Horizontal NA/JP PDU	
HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets	AF538A
(12) C19/Horizontal INTL PDU	
HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (20) C13	AF531A
(6) C19/Horizontal NA/JP PDU	, 00 ., .
HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets	AF532A
(20) C13 (6) C19/Horizontal NA/JP PDU	
HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets	AF533A
(6) C19/Horizontal NA/JP PDU	
HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6)	AF534A
C19/Horizontal INTL PDU Kit	
HP 5xC13 Intelligent PDU Extension Bar G2 Kit	AF547A
HP 5xC13 Outlets Power and UID LEDs Pair Standard Extension	AF528A
Bar	, 020/1
NOTE: Please see the HPE Intelligent Power Distribution Unit (PDU) Qu	ickSpecs
for information on additional options and product specifications	<u> </u>

S 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 7.3kVA/60309 3-wire 32A/230V Outlets (20) C13 (4) C19/Vertical INTL PDU

H8B51A

HPE Metered Switched 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18)

H8B52A

C13 (6) C19/Vertical NA/JP PDU HPE Metered Switched 3Ph 8.6kVA/L21-30P 24A/208V Outlets

H8B53A

(20)C13 (3)C19 (1)5-20R/Vertical NA/JP PDU

H8B54A

HPE Metered Switched 3Ph 11kVA/60309 5-wire 16A/230V Outlets (21) C13 (3) C19/Vertical INTL PDU

H8B55A

HPE Metered Switched 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU

HPE Metered Switched 3Ph 17.3kVA/60309 4-wire 48A/208V

H8B56A

Outlets (12) C13 (12) C19/Vertical NA/JP PDU

NOTE: Please see the HPE Metered and Switched Power Distribution Units (PDU)



Additional Options

QuickSpecs

for information on additional options and product specifications.

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

page

HPE Rack	HPE Location Discovery Services	
Mount	HP Location Discovery Services LCD8500 Kit	TL052A
Consoles, KVM	NOTE: Please see the HPE Location Discovery Services	
Switches, and	QuickSpecs for Technical Specifications and additional information.	
Keyboards	HPE Rack Mount Consoles	
-	HP LCD8500 1U US Rackmount Console Kit	AF630A
	HP LCD8500 1U UK Rackmount Console Kit	AF631A
	HP LCD8500 1U DE Rackmount Console Kit	AF632A
	HP LCD8500 1U FR Rackmount Console Kit	AF633A
	HP LCD8500 1U JP Rackmount Console Kit	AF642A
	HP LCD8500 1U RU Rackmount Console Kit	AF643A
	HP LCD8500 1U INTL Rackmount Console Kit	AF644A
	HP LCD8500 1U US TAA Rackmount Console Kit	AF645A
	HPE KVM Switches	
	HP 0x1x8 G3 KVM Console Switch	AF651A
	HP 0x2x16 G3 KVM Console Switch	AF652A
	HP TAA 0x2x16 G3 KVM Console Switch	AF653A
	HP USB Remote Access Key for G3 KVM Console Switches	AF650A
	HP KVM Console USB Interface Adapter	AF628A
	HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software	AF618A
	HP 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software	AF619A
	HP KVM Console USB 2.0 Virtual Media CAC Interface Adapter	AF629A
	HPE KVM Console USB/Display Port Interface Adapter	AF654A
	HPE KVM Console USB 8-pack Interface Adapter	AF655A
	HP 1x4 USB/PS2 KVM Console Switch	AF611A
	HP 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software	AF620A
	HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software	AF621A
	HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software	AF622A
	NOTE: To learn more, please visit the HPE KVM Switches web	
	page.	

HPE USB Keyboard and Mouse



Additional Options

HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21
HP USB BFR with PVC Free UK Keyboard/Mouse Kit	631344-B21
HP USB BFR with PVC Free FR Keyboard/Mouse Kit	631346-B21
HP USB BFR with PVC Free ES Keyboard/Mouse Kit	631348-B21
HP USB BFR with PVC Free DE Keyboard/Mouse Kit	631358-B21
HP USB BFR with PVC Free JP Keyboard/Mouse Kit	631360-B21
HP USB BFR with PVC Free IT Keyboard/Mouse Kit	631362-B21
HP USB BFR with PVC Free CN Keyboard/Mouse Kit	631364-B21
HP USB BFR with PVC Free AE Keyboard/Mouse Kit	638212-B21
HP USB BFR with PVC Free RU Keyboard/Mouse Kit	638214-B21
HP USB BFR with PVC Free IN Keyboard/Mouse Kit	672097-D63
HP USB BFR with PVC Free AP-Intl Keyboard/Mouse Kit	672097-373
HP USB BFR with PVC Free Intl Keyboard/Mouse Kit	672097-B33
HP USB BFR with PVC Free PT Keyboard/Mouse Kit	672097-133
HP USB BFR with PVC Free TR Keyboard/Mouse Kit	672097-143
HP USB BFR with PVC Free CZ Keyboard/Mouse Kit	672097-223
HP USB BFR with PVC Free FI Keyboard/Mouse Kit	672097-353
HP USB BFR with PVC Free SE Keyboard/Mouse Kit	672097-103
HP USB BFR with PVC Free CH Keyboard/Mouse Kit	672097-113
HP USB BFR with PVC Free KR Keyboard/Mouse Kit	672097-KD3
NOTE: Please see the HPE USB Keyboard and Mouse	
QuickSpecs for information on additional options and product	
specifications.	
Rail Kits	
HP 2U Small Form Factor Easy Install Rail Kit	733660-B21
HP 2U Cable Management Arm for Easy Install Rail Kit	733664-B21
HPE Other Options	
HP Rack LED Light Kit	BW939A
HP Kit LCD 1.83m Latch Display Port Cable	G7T29A
	= 4 4 4 6 6 5 5 1

HPE UninterruptibleHPE DirectFlow Three Phase UPS

Power Systems	Power Unit (1U UPS)
(UPS)	HPF R12000 DirectFlow - 1U Rackmount Unintern

HP Advanced Power Manager Kit

Power Unit (1U UPS)	
HPE R12000 DirectFlow - 1U Rackmount Uninterruptible Power	G9Y75A
System	
HPE R12000 DirectFlow - POD 1U Rackmount Uninterruptible	AF478A
Power System	
HPE RP12000/3 12000VA Three Phase INTL 6U Rackmount	AF437A
Uninterruptible Power System	
Input/Output Module Options for 1U UPS	
HPE 32A 400-415 Volt Three Phase INTL R12000 DirectFlow UPS	AF488A
IEC309 Input/Output Module	
HPE 30A 400-415 Volt Three Phase NA R10000 DirectFlow UPS	AF489A
IEC309 Input/Output Module	
HPE 32A 380 Volt Three Phase China R12000 DirectFlow UPS	AF490A
Unterminated Input/Output Module	
HPE 30A 480 Volt Three Phase NA R12000 DirectFlow UPS L22-	AF491A
30 Input/Output Module	
HPE 30A 480 Volt Three Phase NA R12000 DirectFlow UPS	AF492A
IEC309 Input/Output Module	
HPE 30A 400-415 Volt Three Phase NA R12000 DirectFlow UPS	G9Y76A
IEC309 Input/Output Module	



741192-B21

Additional Options

Power Unit (2U UPS)	
HPE R18000 DirectFlow - 2U Rackmount Uninterruptible Power	AF479A
System	
Input/Output Module Options for 2U UPS	
HPE 32A 400-415 Volt Three Phase INTL R18000 DirectFlow UPS	AF483A
IEC309 Input/Output Module	
HPE 30A 380 Volt Three Phase China R18000 DirectFlow UPS	AF485A
Unterminated Input/Output Module	A = 400 A
HPE 30A 480 Volt Three Phase NA R18000 DirectFlow UPS	AF486A
IEC309 Input/Output Module HPE 30A 480 Volt Three Phase NA R18000 DirectFlow UPS	AF487A
IEC309 Input/Output Module	AF40/A
HPE 30A 400 Volt Three Phase NA R18000 DirectFlow UPS	D9Q02A
IEC309 Input/Output Module	DOQUEA
HPE 30A 400-415V Three Phase NA R18000 DirectFlow UPS 1:1	AF484A
IEC309 Input/Output Module	
NOTE: All Input/Output Modules support dual output outlets except the AF484	A.
Battery Pack Options	
HPE DirectFlow UPS - 1U Rackmount Lithium-ion Battery Pack	AF480A
HPE DirectFlow UPS - 3U Rackmount VRLA Battery Pack	AF482A
HPE WW DirectFlow Secondary Battery Cable	AF497A
NOTE: Please see the HPE DirectFlow Three Phase Uninterruptible Pov	<u>wer System</u>
<u>QuickSpecs</u>	
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 T750 G4 INTL Uninterruptible Power System	J2P88A

HDE	T750	C1	IIDC	Model	

HPE T750 G4 NA/JP Uninterruptible Power System	J2P85A
HPE T750 G4 INTL Uninterruptible Power System	J2P88A
HPE T1000 G4 UPS Models	
HPE T1000 G4 NA/JP Uninterruptible Power System	J2P86A
HPE T1000 G4 INTL Uninterruptible Power System	J2P89A
HPE T1500 G4 UPS Models	
HPE T1500 G4 NA/JP Uninterruptible Power System	J2P87A
HPE T1500 G4 INTL Uninterruptible Power System	J2P90A
HPE Rack/Tower UPS	



Additional Options

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	J2R02A
System	
HPE R/T3000 G4 High Voltage INTL Uninterruptible Power System	J2R04A
R1500 G4 Models	
HPE R1500 G4 NA Uninterruptible Power System	J2Q99A
HPE R1500 G4 JP/TWN Uninterruptible Power System	J2R05A
HPE R1500 G4 INTL Uninterruptible Power System	J2R03A
R7000 Uninterruptible Power System (UPS)	
HPE R7000 4U 50A High Voltage NA/JP Uninterruptible Power	AF462A
System	
HPE R7000 4U IEC-32A High Voltage INTL Uninterruptible Power	AF463A
System	
R5000 Uninterruptible Power System (UPS)	
HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power	AF460A
System	
HPE R5000 3U IEC309-32A High Voltage INTL Uninterruptible	AF461A
Power System	
NOTE: Please see the HPE Line Interactive Single Phase UPS QuickSpe	<u>}CS</u>
f = 0 (i.e. $f = 0$) and $f = 0$ (i.e. $f = 0$) and $f = 0$ (i.e. $f = 0$) and $f = 0$ (i.e. $f = 0$) and $f = 0$	

for information on additional options and product specifications.

HPE UPS Options

HPE R/T2200 G4 Extended Runtime Module	J2R09A
HPE R/T3000 G4 Extended Runtime Module	J2R10A
HPE 2U Rack/Tower UPS Shipping Kit	L4Q11A
HPE DirectFlow UPS Management Card	AF493A

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

HPE USB and **SD Options**

HPE Enterprise Mainstream Flash Media Kits for Memory Cards

HP 32GB microSD Enterprise Mainstream Flash Media Kit	700139-B21
HP 8GB microSD Enterprise Mainstream Flash Media Kit	726116-B21
HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit	737953-B21
HP Dual 8GB microSD Enterprise Midline USB Kit	741279-B21



U7WK3E

QuickSpecs

Additional Options

HPE	Support
Serv	ices

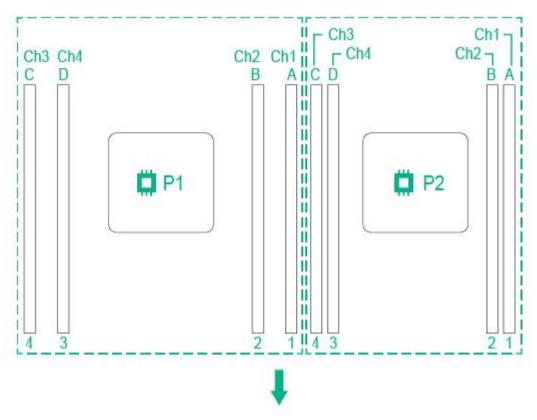
Installation & Start-up Services HPE Installation ML/DL Series 10 Service U7WZ5E HPE Startup ML/DL Series 10 Service U7WZ7E **Foundation Care** HPE 3 year Foundation Care Next business day DL80 Gen9 U7WG1E Service HPE 3 year Foundation Care Next business day with DMR DL80 U7WG2E Gen9 Service HPE 3 year Foundation Care Next business day with CDMR DL80 U7WG3E Gen9 Service HPE 3 year Foundation Care 24x7 DL80 Gen9 Service U7WG4E HPE 3 year Foundation Care 24x7 wDMR DL80 Gen9 Service U7WG5E HPE 3 year Foundation Care 24x7 wCDMR DL80 Gen9 Service U7WG6E **Proactive Care** HPE 3 year Proactive Care 24x7 DL80 Gen9 Service U7WK1E HPE 3 year Proactive Care 24x7 with DMR DL80 Gen9 Service U7WK2E

HPE 3 year Proactive Care 24x7 with CDMR DL80 Gen9 Service



Memory

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.
- . Do not mix RDIMMs or LRDIMMs.
- . Quad rank RDIMMs are not supported in HPE ProLiant DL80 Gen9 servers.
- . DIMMs of different speeds may be mixed in any order; the server will select a common optimal speed.
- . The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- . The maximum memory capacity is a function of the memory type and number of installed processors.
- . To realize the performance memory capabilities listed in this document, HPE SmartMemory is required.

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



Memory

CLRDII	[DIMM Type]	Regist	Load Reduced			
B21 B21 B21 B21 B21 B21 B21 B21 B21 Dual Rank Rank Rank Rank						(LRDIMMs)
Rank Std Std Voltage	HPE SKU P/N		1		1	805353- B21
Std Voltage Voltage	DIMM Rank	, ,			1	Dual Rank
Voltage Voltage 1.2V 1	DIMM Capacity	8GB	16GB	16GB	32GB	32GB
DRAM Width [bit] x8 x4 x4 x4 x4 DRAM Density 8Gb 8Gb 8Gb 8Gb 8Gb 8Gb 8G CAS Latency 17-17- 17-17- 17-17- 17-17- 17 17-17- 17 12 12 12 12 12 12 12 12 12	Voltage	Voltage	Voltage	Voltage	Voltage	Std Voltage 1.2V
DRAM Density 8Gb 8Gb 4Gb 8Gb 8G CAS Latency 17-17- 17-17- 17-17- 17-17- 17-17- 17 17-1	DRAM Depth [bit]	1G	1G	2G	2G	2G
17-17- 1	DRAM Width [bit]	x8	x4	x4	x4	x4
17 17 17 17 17 17 17 17	DRAM Density	8Gb	8Gb	4Gb	8Gb	8Gb
SLOTS THAT CAN BE POPULATED 8 slot servers 8 8 8 8 8 8 8 8 8	CAS Latency		1		1	17-17-17
8 slot servers 8 8 8 8 8 MAXIMUM CAPACITY (GB) 64 128 128 256 256 POPULATED DIMM SPEED (MT/s) 1 DIMM Per Channel 2400	DIMM Native Speed (MT/s)	2400	2400	2400	2400	2400
MAXIMUM CAPACITY (GB) 64 128 128 256 256	SLOTS THAT CAN BE POPULATED					
64 128 128 256 256 256	8 slot servers	8	8	8	8	8
POPULATED DIMM SPEED (MT/s) 2400 <t< td=""><td>MAXIMUM CAPACITY (GB)</td><td>-</td><td></td><td></td><td>'</td><td>,</td></t<>	MAXIMUM CAPACITY (GB)	-			'	,
1 DIMM Per Channel 2400 <td></td> <td>64</td> <td>128</td> <td>128</td> <td>256</td> <td>256</td>		64	128	128	256	256
2 DIMM Per Channel n/a n/a n/a n/a n/a	POPULATED DIMM SPEED (MT/s)	I		1	1	1
	1 DIMM Per Channel	2400	2400	2400	2400	2400
3 DIMM Per Channel n/a n/a n/a n/a n/a	2 DIMM Per Channel	n/a	n/a	n/a	n/a	n/a
	3 DIMM Per Channel	n/a	n/a	n/a	n/a	n/a

NOTE: DL80 has 1 DIMM per channel and hence 2 DIMMs and 3 DIMMs per channel memory speeds are not app

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



Memory

Memory Bandwidth and Capacity							
[DIMM Type]	Registered DIMMs (RDIMMs) Load R (LRD					Reduced IMMs)	
HPE SKU P/N			759934-	1			1
	B21	B21	B21	B21	B21	B21	B21
DIMM Rank	Single	Single	Dual	Dual	Dual	Dual	Quad
	Rank	Rank	Rank	Rank	Rank	Rank	Rank
DIMM Capacity	4GB	8GB	8GB	16GB	32GB	16GB	32GB
Voltage	Std	Std	Std	Std	Std	Std	Std
	Voltage 1.2V	Voltage 1.2V	Voltage 1.2V	Voltage 1.2V	Voltage 1.2V	Voltage 1.2V	Voltage 1.2V
DRAM Depth [bit]	512M	1G	512M	1G	1G	2G	2G
DRAM Width [bit]	x8	x4	x8	x4	x4	x4	x4
DRAM Density	4Gb	4Gb	4Gb	4Gb	4Gb	8Gb	8Gb
CAS Latency	15-15-	15-15-	15-15-	15-15-	15-15-	15-15-	15-15-
-	15	15	15	15	15	15	15
DIMM Native Speed (MT/s)	2133	2133	2133	2133	2133	2133	2133
SLOTS THAT CAN BE POPULATED							
8 slot servers	8	8	8	8	8	8	8
MAXIMUM CAPACITY (GB)		1	1	1	ı	ı	
	32	64	64	128	256	128	256
POPULATED DIMM SPEED (MT/s)				l	l	l	
1 DIMM Per Channel	2133	2133	2133	2133	2133	2133	2133
2 DIMM Per Channel	n/a	n/a	n/a	n/a	n/a	n/a	n/a
3 DIMM Per Channel	n/a	n/a	n/a	n/a	n/a	n/a	n/a

NOTE: DL80 has 1 DIMM per channel and hence 2 DIMMs and 3 DIMMs per channel memory speeds are not app

DIMM slot and configuration DIMM slot and configuration diagrams



Memory diagram

Basic memory slot & population diagram

- Population order; start with "A" first, "B" second, "C" third, etc.
- When one processor is installed, install DIMMs in sequential alphabetic order: *A* C, D, E, F.
- 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 IS PROCESSOR ON LEFT - LOOKING FROM FRONT OF SERVER

		CPU 1		CPU 2			
	Slot #	population order	Slot #	population order			
Chnl 1	1	A1	1	A1			
		CPU 1		CPU 2			
	Slot #	population order	Slot #	population order			
Chnl 2	2	B2	2	B2			
		CPU 1		CPU 2			
	Slot #	population order	Slot #	population order			
Chnl 4	3	D3	3	D3			
		CPU 1		CPU 2			
	Slot #	population order	Slot #	population order			
	4		4				

Memory Speed by Processor Model

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

Standard and Maximum Memory Capacity (Preconfigured Models)

Pre Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
E5-2609v4, E5- 2609v3, E5-2603v4	8GB (1x8GB)	232GB (7x32GB, 1x8GB)	256GB (8x32GB)
E5-2603v3	4GB (1x4GB)	228GB (7x32GB, 1x4GB)	256GB (8x32GB)

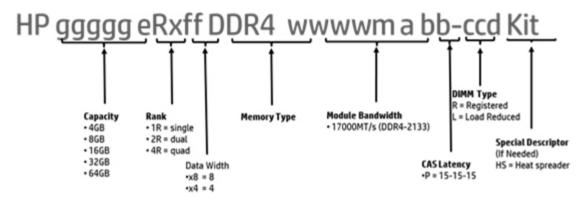


Memory

DDR4 memory options part number decoder

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

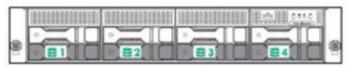
- 2GB = 2,048MB
- 4GB = 4,096MB
- 8GB = 8,192MB
- 16GB = 16,384MB
- 32GB = 32,768MB
- 64GB = 65,536MB





Storage

4-bay LFF non-hot-plug drive model



1-8

1-8

1-4 4 x LFF SATA Non-Hot Pluggable Hard Drive Bays

8-bay LFF non-hot plug drive model



8 x LFF SATA Non- Hot Pluggable Hard Drive Bays

8-bay LFF hot-plug drive model



8 x LFF SATA/SAS/SDD Hot Pluggable Hard Drive Bays

12-bay LFF hot-plug drive model



1-12 12 x LFF SATA/SAS/SDD Hot Pluggable Hard drive bays



Technical Specifications

System Unit **Dimensions** 3.45 x 18.98 x 24.97 in (8.75 x 44.55 x 60.7 cm)

(with bezel)

Weight Maximum: 47/6 lb (21.59 kg) (approximate) Minimum: 36.58 lb (16.59 kg) Rated Line 100 to 240 VAC Input

Requirements Voltage

Rated Input For 550W Power Supply:

Current 6.7 A (at 100 VAC)

3.3 A (at 200 VAC)

47 to 63 Hz Rated Input

Frequency

Rated Input For 550 W Power Supply: Power < 670 W (at 100 VAC),

< 660 W (at 200 VAC),

For 550 W Power Supply: **BTU Rating** Maximum

2201 BTU/hr (at 100 VAC), 2153 BTU/hr (at 200 VAC)

Power To review typical system power ratings use the Power Advisor which

Specifications is available via the online tool located at URL:

http:/www.hp.com/go/proliant-energy-efficient or

http://www.hp.com/go/hppoweradvisor - Click on the system of interest. Example: DL80 Gen9- Follow the instructions of the next

screens.

Power Supply Rated

Output

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

State 550 W (at 200 VAC),

Power

Maximum For 550 W Power Supply: Peak 550 W (at 100 VAC), Power 550 W (at 200 VAC),

System Inlet **Temperature**

Operating Support

10° to 35°C (50° to 95°F) at sea level with an Standard altitude derating of 1.0°C per every 305 m (1.8°F per

every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating with a fan fault or above

30°C (86°F).

Extended Ambient Operating Support

For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m

(10,000 ft). The approved hardware configurations

for this system are listed at the URL: http://www.hp.com/servers/ashrae

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



Technical Specifications

fault.

NOTE: Supports A3 extended ambient.

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

change is 20°C/hr (36°F/hr).

Minimum to be the higher (more moisture) of -12°C Relative Operating **Humidity**

(10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F) dew point

or 90% relative humidity.

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

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

> and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).

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

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

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

> 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).

ldle

L WAd Entry: 4.8 B

Base: 4.7 B

Entry: 34 dBA L pAm

Base: 33 dBA

Operating

L WAd Entry: 4.9 B

Base: 4.9 B

L pAm Entry: 34 dBA

Base: 36 dBA

NOTE: The listed sound levels apply to standard shipping

configurations. Additional options may result in increased sound

levels.

Emissions Classification Normative

FCC Rating Class A

(EMC)

CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; Standards ICES-003; CNS14336-1; CNS13438; GB4943; GB9254;

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.

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

levels.



Technical Specifications

HPE Dynamic **Smart Array**

links

Number of PCI Four

B140i Controller

4 Gb/s PCI link rate Storage protocol SATA

support

SAS/SATA peak 6 Gb/s

data transfer rate

Number of 10 links

SAS/SATA links

SAS/SATA 2x4 connectors; 2x1 connectors

connectivity

Expander No

support

Drives supportedUp to 10 Internal Drives

(max)

RAID support 0, 1, 10, 5 SATA 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 Embedded Network

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

Dual Port 361i

Adapter

Compatibility IEEE 802.3 10Base-T

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

IEEE 802.3az - Energy Efficient Ethernet (EEE)

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

Method

Controller Intel I350 Powerville **Network** 10Base-T (Half-

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

10Base-T (Full-

Duplex) 20 Mb/s per port, 80 Mb/s combined

100Base-TX

(Half-Duplex) 100 Mb/s per port, 400 Mb/s combined

100Base-TX

(Full-Duplex) 200 Mb/s per port, 800 Mb/s combined

1000Base-TX (Half and Full-

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

Connector Two RJ-45



Technical Specifications

Cable Support 10 Base-T Categories 3, 4 or 5 UTP; up to 328 ft (100 m) 10/100/1000 Base- Category 5 or higher UTP; up to 328 ft (100 m) TX

Environmentfriendly Products and Approach End-of-life Management and Recycling

Hewlett-Packard offers end-of-life Hewlett Packard Enterprise product return, trade-in, and recycling programs in many geographic areas. For trade-in information, please go to:

http://www.hp.com/go/green. To recycle your product, please go to: http://www.hp.com/go/green or contact your nearest Hewlett Packard Enterprise sales office. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

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



Summary of Changes

Date	Version History	Action	Description of Change
26-Sep-2016	From Version 15 to 16	Added	Added new 10TB SATA Hot Plug LFF drives offering and new 900W AC/ 240VDC power supply.
		Changed	HPE Power Supplies section was revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
17-Jun-2016	From Version 14 to 15	Added	Power supply information was added to the Configuration Information - Factory Integrated Models section.
6-Jun-2016	From Version 13 to 14	Added	Added new HDD offering to the HPE Drives section.
		Changed	New options added to the HPE Disk Backup and HPE Storage Options.
8-Apr-2016	From Version 12 to 13	Changed	HPE Processors section was revised.
31-Mar-2016 From Version 11 to 12	From Version 11 to 12	Added	Added new HPE Smart Memory 2400 MHz memory, Intel Xeon E5-2600v4 processor support, new HPE Trusted Platform Module (TPM) 2.0, new 900W AC/ 240VDC power supply, new SATA Hot Plug Standard drives.
		Changed	Power Supply, Upgradeability, Embedded Management, Service and Support, Preconfigured Models, HPE Security, and Memory sections were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
16-Feb-2016	From Version 10 to 11	Added	New HDD offering was added to HPE Drives.
		Changed	HPE Power Supplies, HPE Computation and Graphics Accelerators, HPE Data Center Racks, and HPE Power Distribution Units (PDUs) were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
17-Dec-2015	From Version 9 to 10	Added	Smart Buy models were added to the NA version.
1-Dec-2015	From Version 8 to 9	Added	New options added to HPE Disk Backup, HPE Disk Storage Systems, and HPE Power Distribution Units (PDUs).
		Changed	On System Management Chipset, Maximum Internal Storage, Embedded Management, and Server utilities were revised.
			Product images were updated.
		Removed	Obsolete SKUs were removed from QuickSpecs.



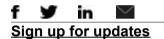
Summary of Ch	nanges		
28-Sep-2015	From Version 7 to 8	Added	Added new 6Gb SATA Solid State Drives.
			Added new HPE OneView management software.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
17-Aug-2015	From Version 6 to 7	Added	New Solid State Drives offering was added to Core Options.
		Changed	Maximum Internal Storage was revised.
		Removed	Obsolete SKUs were removed from QuickSpecs.
10-Jun-2015	From Version 5 to 6	Added	Added new HPE Drives: HPE 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive
			HPE 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive
			HPE 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive
			HPE 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive
1-Jun-2015	From Version 4 to 5	Added	New Hard Drives were added to Core Options.
			Added new HPE Power Supplies options.
			Added new HPE OneView LTUs to HPE Converged Infrastructure Management Software.
			New RDX+ backup external backup options added to HPE Disk Backup.
		Changed	Core Options and Additional Options were revised.
		Removed	Obsolete SKUs were removed from 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.
		Changed	HPE Memory, HPE Disk Storage Systems, HPE USB and SD Options, HPE Storage Controllers, and HPE Disk Storage Systems were updated.



Summary of Changes

9-Feb-2015	From Version 1 to 2	Added	Added HP Insight Software.
			Added new G4 UPS models.
		Changed	HPE Memory, HPE Tape Backup, HPE Disk Backup, HPE Rack Mount Consoles, KVM Switches, and Keyboards, and HPE Uninterruptible Power Systems (UPS) sections were revised.





© Copyright 2016 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

Intel® and Xeon® are registered trademarks of Intel Corporation in the U.S. and other countries.

 $\label{lem:microsoft} $$Microsoft@, Windows@, and Windows Server@ are U.S. registered trademarks of the Microsoft group of companies.$

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

c04447832 - 15089 - Worldwide - V16 - 26-September-2016



