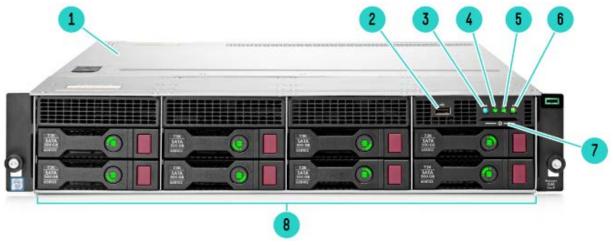
## **Overview**

## **HPE ProLiant DL80 Generation9 (Gen9)**

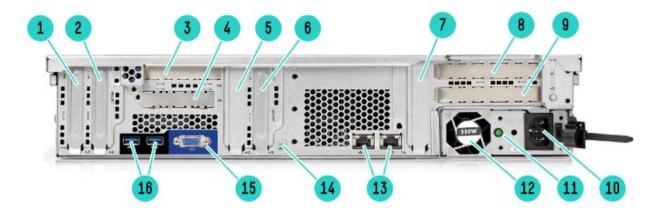
The HPE ProLiant DL80 Gen9 Server is designed with affordable storage, networking and processor scalability, and manageability in a 2U server for cost conscious service provider and SMBs. Apart from basic IT infrastructure workloads this server is ideal for running storage capacity intensive applications 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

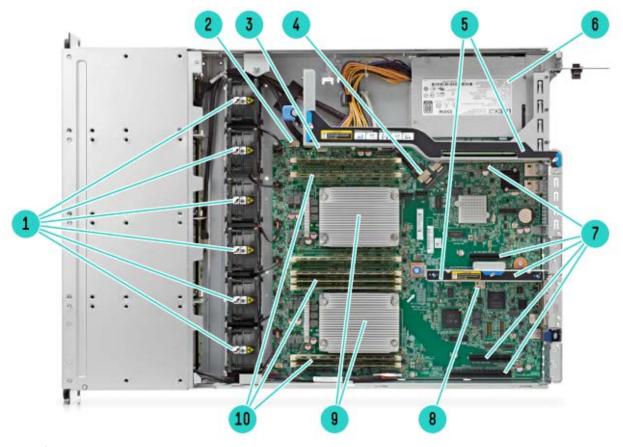
- 1 Slot 7 PCle3 x16 low-profile, standup
- 3 Slot 4 PCle3 x8 low-profile, riser (optional)
- 5 Slot 4 PCle3 x16 low-profile, standup
- 7 Slot 1 PCle3 x16 low-profile, standup
- 9 Slot 2 PCle3 x8 full-height half-length riser (optional)
- 2 Slot 6 PCle3 x8 low-profile, standup
- 4 Slot 5 PCle3 x8 FlexibleLOM 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



## Overview

- 11 Power supply status LED
- 13 Embedded 2x1GbE network adapter
- 15 Video connector

- 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 PCle riser kits
- 7 PCle 3.0 slots
- 9 2 Processors, heatsink showing, with HPE Smart Socket Guide

### 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

- 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)

## NOTE: For more information regarding Intel Xeon processors, please see the following <a href="http://www.intel.com/xeon">http://www.intel.com/xeon</a>.

**Processor** One of the following depending on mode

g	Model	CPU frequency	Cores	L3 Cache	Power	QPI	DDR4 Hz
lel	E5-2660v3	2.6GHz	10	25MB	105W	9.6GT/s	2133
Ī	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
Ī	E5-2630Lv3	1.8GHz	8	20MB	55W	8.0GT/s	1866
Ī	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
ſ	E5-2623v4	2.6GHz	4	10MB	85W	8.0GT/s	2133
Ī	E5-2620v4	2.1GHz	8	20MB	85W	8.0GT/s	2133
	E5-2609v4	1.7GHz	8	20MB	85W	6.4GT/s	1866
	E5-2603v4	1.7GHz	6	15MB	85W	6.4GT/s	1866

Chipset Intel® C610 Series Chipset

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

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

URL: <a href="http://www.intel.com/products/server/chipsets/">http://www.intel.com/products/server/chipsets/</a>

On System Management Chipset

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

One of the following depending on model

Memory Type:

One of the following HPE SmartMemory and Standard Memory

DIMM Slots Available

depending on DDR4 Registered (RDIMM) or Load Reduced (LRDIMM)

model

8

(4 DIMM slots per processor, 4 channels per processor, 1 DIMMs per channel)

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

(LRDIMM)

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

(RDIMM)

Storage

Hot Plug LFF SAS

#### Standard Features

Memory Protection Advanced ECC Advanced ECC uses single device data correction to detect and correct One of the following single and all multibit error that occurs within a single DRAM chip. depending on Online spare Memory online spare mode detects a rank that is degrading and switches model operation to the spare rank. Memory mirroring inter-socket stores a copy of memory with dynamic Mirroring mode failure 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 slots **Expansio Technology** Bus Connector Bus Form Factor Notes (Standard) n Slots# Width Width Number 1 PCIe 3.0 x16 x16 Low profile CPU 1 slots 3 PCIe 3.0 CPU 1 slots x8 8x Low profile Low profile 4 PCIe 3.0 x16 x16 CPU 1 slots 6 PCle 3.0 x8 x8 Low profile CPU 2 slots 7 PCIe 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 **Expansio Technology** Bus Connector Bus Form Factor Notes (Optional) n Slots# Width Width Number 1 PCIe 3.0 Full-height, half-CPU 1 slots x8 х8 length slot 2 PCle 3.0 x8 х8 Full-height, half-CPU 1 slots length slot Flexible LOM Riser **Expansio Technology** Connector Bus Form Factor Bus **Notes** (Optional) n Slots# Width Width Number 4 PCIe 3.0 8x 8x Low profile CPU 1 slots 5 PCle 3.0 x8 х8 Flexible LOM CPU 1 slots **NOTE:** This riser is mandatory for installing FlexibleLOMs. GPU riser Device **Expansion Technolog** Bus Connector Bus Form Factor **Notes** (Optional) Slots # Width Width Number Number PCIe 3.0 CPU 1 slots 1 x16 x16 Full-height, fulllength slot NOTE: When populating slots on second riser, a second processor must be installed. Storage Controller Entry Models HPE Dynamic Smart Array B140i Controller One of the following **NOTE:** Provides support for up to 10 SATA drives and data transmission speeds up to depending on 6Gb/s and supports RAID 0, 1 & 5. model Base Models HPE H240 FIO Smart Host Bus Adapter 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 Storage **Optical Drives** Via USB only **Devices** Hard Drives None ship standard One of the following Hard Drive Bays 12 LFF drive bays total without Optical Bay depending on 8 LFF drive bays total without Optical Bay model **Maximum Internal CONFIGURATION CAPACITY** 

96.0TB

12 x 8TB (with 12LFF drive cage)

One of the following Hot Plug LFF SATA 96.0TB 12 x 8TB (with 12LFF drive cage) depending on Hot Plug LFF SATA SSD 46.08TB 12 x 3.84TB (with 12LFF drive cage) model Non Hot Plug LFF SATA 32TB  $8 \times 4$ TB (with 8LFF drive cage)

**Power Supply** 

HPE 550W FIO Power Supply

One of the following depending on model

One of the following 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.

**System Fans** 

One of the following depending on MOTE: Re model

Non-redundant Redundant

P 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.

**Interfaces** 

Video 1 (Vaux Support)

LOM Network Ports 2 x 1GbE 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.

USB Up to 4 USB ports (standard);

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 Systems and Virtualization Software Support for ProLiant Servers

Operating Systems <u>Microsoft Windows Server</u> and Virtualization Red Hat Enterprise Linux (RHEL)

**SUSE Linux Enterprise Server (SLES)** 

Oracle Solaris VMware

**NOTE:** For more information on Hewlett Packard Enterprise Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server,

please visit our Support Matrix at: http://www.hp.com/go/ossupport and our driver download page http://h20566.www2.hpe.com/hpsc/swd/public/readIndex?sp4ts.oid=7500990.

## Upgradeability

Upgradeable to 2 processors (28 cores)

depending on model

One of the following 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

Redundant Power Supply

Redundant Fan

## Compliance

Industry Standard 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 <a href="http://www.hpe.com/servers/uefi">http://www.hpe.com/servers/uefi</a>.

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

2U Rack form factor

One of the following All models ship with Easy Install rails (Cable management arm optional).

depending on

8 LFF Drive Bay Version:

model

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

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

iLO)

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 <a href="http://www.hpe.com/info/restfulapi">http://www.hpe.com/info/restfulapi</a>.

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

Provisioning. Learn more

components. Learn more

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

Support

Embedded Remote 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 <a href="http://www.hpe.com/info/insightonline/explore">http://www.hpe.com/info/insightonline/explore</a>.

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

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

**HPE Systems Insight Manager** (HPE SIM)

HPE SIM allows you to monitor the health of your HPE ProLiant 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 guick 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 <a href="http://www.hpe.com/servers/proliant/stk">http://www.hpe.com/server</a> s/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 <a href="http://www.hpe.com/info/resttool">http://www.hpe.com/info/resttool</a>.

HPE iLO Mobile Application

Enables the ability to access, deploy, and manage your server anytime from anywhere from select smartphones and mobile devices. For additional information please visit: <a href="http://www.hpe.com/info/ilo/mobileapp">http://www.hpe.com/info/ilo/mobileapp</a>.

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

Packard Enterprise warranty, Care Pack or contractual support agreement with Hewlett Packard Enterprise, is a personalized dashboard for simplified tracking of IT operations and support information from anywhere, anytime. Learn more

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

#### Security

Power-on password
Serial interface control
Administrator's password
TDM 1.2

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, Email-based Alerting and proactive notifications. For more information,

visit http://www.hpe.com/servers/iLO/scale-out.

#### iLO Advanced

HPE iLO Advanced licenses offer smart remote functionality without compromise, for all HPE ProLiant servers. The license includes the full integrated remote console, virtual keyboard, video, and mouse (KVM), multiuser 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 <a href="http://www.hpe.com/info/insightcontrol">http://www.hpe.com/info/insightcontrol</a>.

## **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.

## Clusters

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

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

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

#### Storage Software

Whether you need to solve a specific data protection, archiving, or storage command and control challenge, or deliver on strategic consolidation, compliance, or continuity initiatives, look no further

## **Optional Features**

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.

## (SCE)

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

## Service and Support

## HPE Support Services

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

## Connect your devices

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

## Recommended Support

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

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

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

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

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

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

## Optimized: HPE Proactive Care\* with 24x7 coverage, three year Support Service

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

## Parts and Materials

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

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

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

### **Related Services**

### **HPE Server Hardware Installation**

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

## Service and Support

### 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.

## HPE Education Services

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

## HPE Support Center

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

### Learn more <a href="http://www.hpe.com/support/hpesc">http://www.hpe.com/support/hpesc</a>

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: <a href="http://www.hpe.com/services">http://www.hpe.com/services</a>

## **Pre-configured Models**

	Entry	Models	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	Н	PE Embedded Dual Port 3	661i Adapter Network Inter		
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 Bay	rs (Non Hot Plug)	8 LFF H	DD Bays	
Optical Drive Bay		Not A	Available		
Optical Drive	Op	otional via HPE Mobile USE	B DVDRW Drive (701498-	B21)	
PCI-Express Slots		3 PCle 3.0 slot	s (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	iLO Management (standard), Intelligent Provisioning (standard), iLO Essentials (optional), iLO Scale- out (optional only for DL), iLO Advanced (optional)				
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 Key** XX1 = B21 Worldwide

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

xx1 = 291 Japan xx1 = AA1 PRC

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

## HPE Processors

Select one or two processors from Core Options-Processor section below,

- 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.

## HPE Power Supplies

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: <a href="http://www.hpe.com/go/hppoweradvisor">http://www.hpe.com/go/hppoweradvisor</a>.
- 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**

## HPE Unique Options

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

- 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 redesigned 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 FlexibleLOM

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/go/ProLiantNICs.

## HPE **Networking**

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

- Please see the QuickSpecs for Technical Specifications and additional information: <a href="http://www.hpe.com/go/ProLiantNICs">http://www.hpe.com/go/ProLiantNICs</a>.
- 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.

## **Options**

**HPE Graphics** 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: <a href="http://www.hpe.com/go/hpepoweradvisor">http://www.hpe.com/go/hpepoweradvisor</a>.
- This section may contain FIO options, please see HPE Computation & Graphics Accelerators section below.

## **HPE Cooling Options**

Select one or more Fan Kits from Core Options section below.

- 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.

## **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.

**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.  HP DL80 Gen9 Full Height Half Length Riser Kit  NOTE: Includes two FHHL PCle 3.0 slots and one fan.  HP DL80 Gen9 GPU Enablement Kit  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  NOTE: Includes one FlexibleLOM slot, one Low Profile slot and one fan.  HP AHCI-Enable FIO Setting  NOTE: This needs to be selected when Advanced Host Controller Interface	788355-B21 765515-B21 765518-B21 765514-B21 801845-B21
	mode is required on B140i controller.	
HPE Processors	E5-2600v4 series Processors  HPE DL80 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W)  Processor Kit	803091-B21
	HPE DL80 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) FIO Processor Kit	803091-L21
	HPE DL80 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) Processor Kit	803093-B21
	HPE DL80 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) FIO Processor Kit	803093-L21
	HPE DL80 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W) Processor Kit	803095-B21
	HPE DL80 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W) FIO Processor Kit	803095-L21
	HPE DL80 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) Processor Kit	803097-B21
	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-core/20MB/85W) Processor Kit	803087-B21
	HPE DL80 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) FIO Processor Kit	803087-L21
	HPE DL80 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-core/10MB/85W) Processor Kit	803089-B21
	HPE DL80 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-core/10MB/85W) FIO Processor Kit	803089-L21
	HPE DL80 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W) Processor Kit	803079-B21
	HPE DL80 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W) FIO Processor Kit	803079-L21
	HPE DL80 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) Processor Kit	803081-B21
	HPE DL80 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) FIO Processor Kit	803081-L21

HPE DL80 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) Processor Kit	803083-B21
HPE DL80 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) FIO Processor Kit	803083-L21
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-core/25MB/85W) FIO Processor Kit	803085-L21
E5-2600v3 series Processors	
HP DL80 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit	765521-B21
HP DL80 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) FIO Processor Kit	765521-L21
HP DL80 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit	765523-B21
HP DL80 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) FIO Processor Kit	765523-L21
HP DL80 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit	765525-B21
HP DL80 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) FIO Processor Kit	765525-L21
HP DL80 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit	765526-B21
HP DL80 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) FIO Processor Kit	765526-L21
HP DL80 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit	765530-B21
HP DL80 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) FIO Processor Kit	765530-L21
HP DL80 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit	765531-B21
HP DL80 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit	765531-L21
HP DL80 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) Processor Kit	780100-B21
HP DL80 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) FIO Processor Kit	780100-L21
HP DL80 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) Processor Kit	765528-B21
HP DL80 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) FIO Processor Kit	765528-L21
HP DL80 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor Kit	765529-B21
HP DL80 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO Processor Kit	765529-L21
HP DL80 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) Processor Kit	765532-B21
HP DL80 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) FIO Processor Kit	765532-L21

**NOTE:** Processor upgrade from E5-2600v3 to E5-2600v4 is supported. Please refer to DL80 Gen9 User Guide for more details.

HPE Memory	Registered DIMMs (RDIMMs) for E5-2600v4 Series	
	HP 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory	805347-B21
	Kit LID 14CD (1v14CD) Single Dank v/ DDD/ 2/00 CAS 17 17 17 Degistered	805349-B21
	HP 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	0U3349-BZI
	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 Registered Memory Kit	726718-B21
	HP 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	759934-B21
	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726719-B21
	HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	728629-B21
	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
	<b>NOTE:</b> 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 Registered Standard Memory Kit	851353-B21
	NOTE: These memory options are available as standalone only and cannot be conf	igured in the factory.
	These are standard memory DIMMs with no Smart Memory features.	
	<b>NOTE:</b> 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 Registered Standard Memory Kit	803026-B21
	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Standard Memory Kit	803028-B21
	<b>NOTE:</b> These memory options are available as standalone only and cannot be conf These are standard memory DIMMs with no Smart Memory features.	igured in the factory.
	NATE TO BUAN 1 1 1 1 1 FE 0 / 00 7	

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

HPE Optical Dr	ives 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 Warranty  Hard Drive	801888-B21
	HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	628065-B21
	HP 3TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801886-B21
	HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	659339-B21
	HP 2TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801884-B21
	HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	659337-B21
	HP 1TB 6G SATA 7.2K rpm LFF (3.5in) Non-hot Plug Standard 1yr Warranty Hard Drive	801882-B21
	HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) Non-hot plug Midline 1yr Warranty Hard Drive	659341-B21
	SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
	HPE 8TB 6G SATA 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	819203-B21
	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
	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

GG SATA Hot Plug with SmartDrive LFF (3.5-inch) Midline 512e Helium Drives	
HP 8TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793695-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793683-B21
SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives	
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 Hard Drive	695510-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765257-B21
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 Hard Drive	652757-B21
HP 1TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	652753-B21
HPE 2TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	818365-B21
HPE 1TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846524-B21
HPE 3TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846528-B23
SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives	
HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	765424-B21
HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737394-B21
HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737261-B21
L2G 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 1yr Warranty Hard Drive	793669-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793671-B21
L2G SAS Hot Plug SmartDrive LFF (3.5-inch) Midline 512e Helium Drives	
HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793703-B21
HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793699-B21
L2G SAS Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives	
HP 1.6TB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	762272-B21
HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	762270-B21
G SATA Hot Plug LFF (3.5-inch) Enterprise Mainstream Solid State Drives	
HP 200GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804642-B21
HP 400GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804668-B21
HP 800GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804674-B21
HP 1.2TB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804680-B2

HP 200GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive		6G SATA Hot Plug LFF Value Endurance (3.5-inch) Converter Enterprise	
HP 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive		Value M1 Solid State Drives	00//1/ 021
HP 1.6TB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wity Solid State Drive		• •	
### HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Why Solid State Drive 6G SATA Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drive HP 80GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 120GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 480GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 480GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 480GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 80GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 16TB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 16TB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive HP 3.84TB 6G SATA Read Intensive-3 LFF 3.5-in SCC 3yr Why Solid State Drive HP 3.84TB 6G SATA Read Intensive-3 LFF 3.5-in SCC 3yr Why Solid State Drive 6G SATA Hot Plug LFF (3.5-inch) MU-3 SCC SSD HP 9.60GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive M2 SSD HP Dual 120GB Value Endurance Solid State M2 Enablement Kit for ProLiant ML/DL Servers HP 120GB Value Endurance Solid State M2 Enablement Kit for ProLiant ML/DL Servers NOTE M2 drives go in PCle slot and use B140i SATA controller only. Hard Drive Kits HP Large Form Factor Hard Drive Blank Kit HP DL80 Gen9 8LFF Non-hot Plug Enablement Kit NOTE Required to move from \$4.FF Ni-iPE model to 8 LFF NHPE model.  ### Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 331T Adapter HP Ethernet 1Gb 2-port 351T Adapter HP Ethernet 1Gb 2-port 350FP Adapter HP Ethernet 1Gb 2-port 550FP Adapter HP Ethernet 1Gb 2-port		, ,	
66 SATA Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives   HP 80GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive   804578-B21   HP 120GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive   804590-B21   HP 240GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive   804590-B21   HP 480GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive   804602-B21   HP 800GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive   804602-B21   HP 1.0TB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive   804602-B21   HP 1.0TB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive   804608-B21   HP 3.84 TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive   804608-B21   HP 3.84 TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive   804608-B21   HP 9.80GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State   816939-B21   Drive   HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State   816999-B21   Drive   HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State   816999-B21   Drive   HP 2003 B408 B408 B408 B408 B408 B408 B408 B408			
HP 80GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive			832417-B21
HP 120GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive		•	
HP 240GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive			
HP 480GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive		HP 120GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804584-B21
HP 800GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive		HP 240GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804590-B21
### HP 1.6TB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Why Solid State Drive ### 6G SATA Hot Plug LFF (3.5-inch) RI-3 SCC SSD ### 3.84TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid ### 535-B21 ### 56G SATA Hot Plug LFF (3.5-inch) MU-3 SCC SSD ### 960CB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive ### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive ### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive ### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive ### 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL Servers ### 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL Servers ### NOTE: M.2 drives go in PCle slot and use B140I SATA controller only. ### Hard Drive Blank Kits ### HP DLage Form Factor Hard Drive Blank Kit ### HP DLage Form Factor Hard Drive Blank Kit ### HP DLage Geng 8LFF Non-hot Plug Enablement Kit ### NOTE: Required to move from 4LFF NHPE model to 8 LFF NHPE model.  #### Ethernet 16b 4-port 3361 Adapter ### Ethernet 16b 4-port 3361 Adapter ### Ethernet 16b 2-port 332T Adapter ### Ethernet 16b 2-port 332T Adapter ### Ethernet 10b 2-port 330FP Adapter ### Ethernet 10Gb 2-port 530FP Adapter ### Ethernet 10Gb 2-port 530FP Adapter ### Ethernet 10Gb 2-port 530FP Adapter #### Ethernet 10Gb 2-port 530FP Adapter #### Ethernet 10Gb 2-port 540FP Adapter #### Ethernet 10Gb 2-port 540FP Adapter ####################################		HP 480GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804596-B21
### A Hot Plug LFF (3.5-inch) RI-3 SCC SSD ### 3.8-TB 8.6 SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wity Solid \$16933-B21 \$1816 Drive ### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State Drive ### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State Drive ### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State Drive ### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State Drive #### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State #### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State #### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State #### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State #### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State #### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State #### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State #### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State #### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State #### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State ### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State ### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State ### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State ### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State ### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State ### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State ### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State ### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State ### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wity Solid State Mixed Use-3 LEF 4.6698-B21 ### 41		HP 800GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804602-B21
### HP 3.84TB 6G SATA Read Intensive-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive  ### 6G SATA Hot Plug LFF (3.5-inch) MU-3 SCC SSD HP 960GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive  #### 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State Drive  ###################################		HP 1.6TB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804608-B21
State Drive           66 SATA Hor Plug LFF (3.5-inch) MU-3 SCC SSD           HP 960GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State         816999-821           Drive           HP 480GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Wty Solid State         816989-821           Drive           M2 SSD           HP Dual 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant         777894-B21           ML/DL Servers           HP 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL         788028-B21           Servers           NOTE: M.2 drives go in PCle slot and use B140I SATA controller only.           Hard Drive Blank Kits         666986-B21           HP Large Form Factor Hard Drive Blank Kit         788355-B21           HP DL80 Gen9 8LFF Non-hot Plug Enablement Kit         788355-B21           NOTE: Required to move from 4LFF NHPE model to 8 LFF NHPE model.           HPE thernet 1Gb 4-port 331T Adapter         647594-B21           HPE Ethernet 1Gb 2-port 332T Adapter         647594-B21           HP Ethernet 1Gb 2-port 530FP Adapter         652497-B21           HP Ethernet 10Gb 2-port 550FP Adapter         716591-B21		6G SATA Hot Plug LFF (3.5-inch) RI-3 SCC SSD	
HP 960GB 6G SATA Mixed Use-3 LFF 3.5-in SC Converter 3yr Why Solid State Drive			816933-B21
Drive		6G SATA Hot Plug LFF (3.5-inch) MU-3 SCC SSD	
Drive  M.2 SSD  HP Dual 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL Servers HP 120GB Value Endurance Solid State M.2 Enablement Kit for 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 HP DL80 Gen9 8LFF Non-hot Plug Enablement Kit NOTE: Required to move from 4LFF NHPE model to 8 LFF NHPE model.  HPE Networking  1 Gigabit Ethernet adapters HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 4-port 332T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 350FP Adapter HP Ethernet 1Gb 2-port 350T Adapter HP Ethernet 1Gb 2-port 550SFP Adapter HP Ethernet 10Gb 2-port 550SFP Adapter HP Ethernet 10Gb 2-port 560FP+ Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 546SFP+ Adapter HP Ethernet 10Gb 2-port 546SFP+ Adapter HP Ethernet 10Gb 2-port 562SFP+ Adapter HP Ethernet 10Gb 2-port 562SFP+ Adapter HP Ethernet 10Gb 2-port 562SFP+ Adapter HPE Ethernet 10Gb 2-port 562SFP+ Adapter			816999-B21
HP Dual 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL Servers HP 120GB Value Endurance Solid State M.2 Enablement Kit for 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   HP DL80 Gen9 8LFF Non-hot Plug Enablement Kit   788355-B21     NOTE: Required to move from 4LFF NHPE model to 8 LFF NHPE model.   788355-B21     HPE Networking   1 Gigabit Ethernet adapters   HP Ethernet 1Gb 4-port 331T Adapter   647594-B21     HP Ethernet 1Gb 4-port 332T Adapter   615732-B21     HP Ethernet 1Gb 2-port 332T Adapter   652497-B21     HP Ethernet 1Gb 2-port 340T Adapter   652497-B21     10 Gigabit Ethernet adapters   HP Ethernet 10Gb 2-port 530SFP Adapter   656596-B21     HP Ethernet 10Gb 2-port 551T Adapter   716591-B21     HP Ethernet 10Gb 2-port 560SFP+ Adapter   779793-B21     HP Ethernet 10Gb 2-port 560SFP+ Adapter   779793-B21     HP Ethernet 10Gb 2-port 562SFP+ Adapter   779793-B21     HP Ethernet 10Gb 2-port 562SFP+ Adapter   779793-B21     HP Ethernet 10Gb 2-port 536FLR-T Adapter   727055-B21     HP Ethersheit 10Gb 4-port 536FLR-T Adapter   764302-B21			816989-B21
ML/DL Servers HP 120GB Value Endurance Solid State M.2 Enablement Kit for 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 HP Large Form Factor Hard Drive Blank Kit HP DL80 Gen9 8LFF Non-hot Plug Enablement Kit NOTE: Required to move from 4LFF NHPE model to 8 LFF NHPE model.  HPE Networking  1 Gigabit Ethernet adapters HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 361T Adapter 10 Gigabit Ethernet adapters HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 550SFP Adapter HP Ethernet 10Gb 2-port 550SFP Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 546SFP+ Adapter HP Ethernet 10Gb 2-port 562SFP+ Adapter		M.2 SSD	
NOTE: M.2 drives go in PCle slot and use B140i SATA controller only.   Hard Drive Blank Kits			777894-B21
Hard Drive Blank Kits         Hard Drive Rictor Hard Drive Blank Kit       666986-B21         Hard Drive Kits         HP DL80 Gen9 8LFF Non-hot Plug Enablement Kit       788355-B21         NOTE: Required to move from 4LFF NHPE model to 8 LFF NHPE model.     The Ethernet adapters  HP Ethernet 1Gb 4-port 331T Adapter  HP Ethernet 1Gb 2-port 360T Adapter  HP Ethernet 1Gb 2-port 332T Adapter  HP Ethernet 1Gb 2-port 361T Adapter  G52497-B21  10 Gigabit Ethernet adapters  HP Ethernet 10Gb 2-port 530SFP Adapter  HP Ethernet 10Gb 2-port 530T Adapter  HP Ethernet 10Gb 2-port 551T Adapter  HP Ethernet 10Gb 2-port 560SFP+ Adapter  HP Ethernet 10Gb 2-port 560SFP+ Adapter  HP Ethernet 10Gb 2-port 564SFP+ Adapter  HP Ethernet 10Gb 2-port 562SFP+ Adapter  HPE FlexFabric 10Gb 4-port 536FLR-T Adapter  764302-B21       HPE FlexFabric 10Gb 4-port 536FLR-T Adapter			788028-B21
HP Large Form Factor Hard Drive Blank Kit  Hard Drive Kits HP DL80 Gen9 8LFF Non-hot Plug Enablement Kit NOTE: Required to move from 4LFF NHPE model to 8 LFF NHPE model.  HPE Networking  1 Gigabit Ethernet adapters HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 4-port 332T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530T Adapter HP Ethernet 10Gb 2-port 550T Adapter HP Ethernet 10Gb 2-port 561T Adapter HP Ethernet 10Gb 2-port 565FP Adapter HP Ethernet 10Gb 2-port 546SFP+ Adapter HP Ethernet 10Gb 2-port 562SFP+ Adapter HP Ethernet 10Gb 2-port 562SFP+ Adapter HPE Ethernet 10Gb 4-port 536FLR-T Adapter 770755-B21 HPE FlexFabric 10Gb 4-port 536FLR-T Adapter		NOTE: M.2 drives go in PCIe slot and use B140i SATA controller only.	
### Hard Drive Kits HP DL80 Gen9 8LFF Non-hot Plug Enablement Kit NOTE: Required to move from 4LFF NHPE model to 8 LFF NHPE model.  ###################################		Hard Drive Blank Kits	
HP DL80 Gen9 8LFF Non-hot Plug Enablement Kit NOTE: Required to move from 4LFF NHPE model to 8 LFF NHPE model.  ### NOTE: Required to move from 4LFF NHPE model to 8 LFF NHPE model.  #### 1 Gigabit Ethernet adapters  ### Ethernet 1Gb 4-port 331T Adapter  ### Ethernet 1Gb 4-port 366T Adapter  #### Ethernet 1Gb 2-port 332T Adapter  #### Ethernet 1Gb 2-port 332T Adapter  #### Ethernet 1Gb 2-port 361T Adapter  #### 1 Gigabit Ethernet adapters  ####### 1 Gigabit Ethernet adapters  ###################################		HP Large Form Factor Hard Drive Blank Kit	666986-B21
HPE Networking  1 Gigabit Ethernet adapters HP Ethernet 1Gb 4-port 331T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 332T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 1Gb 2-port 361T Adapter HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 530SFP Adapter HP Ethernet 10Gb 2-port 550T Adapter HP Ethernet 10Gb 2-port 561T Adapter HP Ethernet 10Gb 2-port 560SFP+ Adapter HP Ethernet 10Gb 2-port 546SFP+ Adapter HP Ethernet 10Gb 2-port 562SFP+ Adapter HP Ethernet 10Gb 2-port 562SFP+ Adapter HP Ethernet 10Gb 2-port 556SFP+ Adapter HP Ethernet 10Gb 2-port 563SFP+ Adapter		Hard Drive Kits	
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			788355-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	HPE Networking	1 Gigabit Ethernet adapters	
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		HP Ethernet 1Gb 4-port 331T Adapter	647594-B21
HP Ethernet 1Gb 2-port 361T Adapter       652497-B21         10 Gigabit Ethernet adapters         HP Ethernet 10Gb 2-port 530FP 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         HPE Ethernet 10Gb 2-port 562SFP+ Adapter       779793-B21         HPE FlexFabric 10Gb 4-port 536FLR-T Adapter       764302-B21		HP Ethernet 1Gb 4-port 366T Adapter	811546-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		HP Ethernet 1Gb 2-port 332T Adapter	615732-B21
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		HP Ethernet 1Gb 2-port 361T Adapter	652497-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		10 Gigabit Ethernet adapters	
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		HP Ethernet 10Gb 2-port 530SFP Adapter	652503-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		HP Ethernet 10Gb 2-port 530T Adapter	656596-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		HP Ethernet 10Gb 2-port 561T Adapter	716591-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		HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
HPE Ethernet 10Gb 2-port 562SFP+ Adapter727055-B21HPE FlexFabric 10Gb 4-port 536FLR-T Adapter764302-B21			779793-B21
HPE FlexFabric 10Gb 4-port 536FLR-T Adapter 764302-B21		·	
		25 Gigabit Ethernet adapters	

	HPE Ethernet 4x25Gb 1-port 620QSFP28 Adapter  FlexibleLOM Adapters	817762-B21
	HP Ethernet 1Gb 4-port 366FLR Adapter HP Ethernet 10Gb 2-port 561FLR-T Adapter	665240-B21 700699-B21
	HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter HP FlexFabric 10Gb 2-port 533FLR-T Adapter	700751-B21 700759-B21
	HP Ethernet 10Gb 2-port 546FLR-SFP+ Adapter HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	779799-B21 665243-B21 727054-B21
HPE InfiniBand	HP InfiniBand FDR 2-port 545QSFP Adapter HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	702211-B21 764284-B21
HPE I/O Expansion Options	HP DL80 Gen9 FlexibleLOM Riser Kit  NOTE: Includes one FlexibleLOM slot, one Low Profile slot and one fan.	765514-B21
	HP DL80 Gen9 Full Height Half Length Riser Kit  NOTE: Includes two FLFH PCle 3.0 slots and one fan.	765515-B21
	HP DL80 Gen9 GPU Enablement Kit  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.	765518-B21
HPE Power Supplies	HPE Entry-Level Power Supplies  HPE 550W Standard FIO Power Supply Kit  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.	730941-B21
	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.	828734-B21
	HPE 900W Standard AC 240VDC RPS Power Backplane FIO Kit  NOTE: This is a Factory Installed Option (FIO) only.  NOTE: This RPS backplane is mandatory to be chosen along with 900W RPS input module.	828735-B21
	HPE 900W Standard AC 240VDC Power Input Module  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.	775595-B21
	HPE 900W Standard AC 240VDC RPS Power Backplane  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.	814835-B21
	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.	820792-B21

**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 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: <a href="http://www.hp.com/go/hppoweradvisor">http://www.hp.com/go/hppoweradvisor</a>.

# HPE Computation and Graphics Accelerators

HP NVIDIA Quadro K2200 Graphics Accelerator

JOG89A

**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.

**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.

<b>HPE Insight</b>	
Software	

## **HPE Insight Control**

HPE Insight Control including 1yr 24x7 Technical Support and Updates 1-server LTU	C6N27A
HPE Insight Control including 1yr 24x7 TSU E-LTU	C6N28ABE
HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO LTU	C6N36A
HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle FIO E-LTU	C6N36ABE
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: <a href="http://www.hp.com/go/insightupdates">http://www.hp.com/go/insightupdates</a>.

**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 Updates 1-server LTU	512485-B21	
HPE iLO Advanced including 3yr 24x7 Tech Support and Updates 1-server LTU	BD505A	
HPE iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU	E6U59ABE	
HPE iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU	E6U64ABE	
HPE iLO Essentials		
HPE iLO Essentials including 3yr 24x7 Tech Support and Updates 1-server LTU	BD774A	
HPE iLO Essentials including 1yr 24x7 Tech Support and Updates 1-server LTU	BD775A	
HPE iLO Essentials including 3yr 24x7 Technical Support and Updates E-LTU	E6U61ABE	
HPE iLO Essentials including 1yr 24x7 Technical Support and Updates E-LTU	E6U62ABE	
HPE iLO Scale-out		
HPE iLO Scale-Out 3yr 24x7 Tech Support and Updates Flexible Quantity LTU	BD776A	
HPE iLO Scale-Out including 3yr 24x7 Tech Support and Updates Flex Qty E-LTU	BD776AAE	
HPE iLO Scale-Out including 3yr 24x7 Tech Support and Updates Tracking LTU	BD777A	
HPE iLO Scale-Out 1yr 24x7 Tech Support and Updates Flexible Quantity LTU	BD778A	
HPE iLO Scale-Out including 1yr 24x7 Tech Support and Updates Flex Qty E-LTU	BD778AAE	
HPE iLO Scale-Out including 1yr 24x7 Tech Support and Updates Tracking LTU	BD779A	

## HPE Converged Infrastructure Management Software

### **HPE OneView**

HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
HPE OneView Physical Media Kit LTU	E5Y37A
HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO Bundle	E5Y43A

Physical 1-server LTU **HPE OneView without iLO Advanced** 

	HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server LTU HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU HPE Operations Analytics for HPE OneView LTU HPE Operations Analytics for HPE OneView E-LTU NOTE: Full licenses of HPE OneView Advanced also provide the 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.	P8B24A P8B25A P8B26AAE P8B31A K8G29A K8G29AAE
HPE Security	HP Trusted Platform Module 2.0 Kit HP Trusted Platform Module Option HP 2U Security Bezel Kit NOTE: Quick Release Ear FIO kit (P/N: 778109-B21) is required for installing	745823-B21 488069-B21 666988-B21
	security bezel.  HP DL80 Gen9 Quick Release Ear FIO Kit  NOTE: Quick Release Ears are mandatory for 12LFF models.	778109-B21
	HP DL80 Gen9 Thumbscrew Ear FIO Kit	787211-B21
HPE Storage Controllers	SAS 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 NOTE: Includes the HPE Smart Storage Battery.	820834-B21
	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 Controller NOTE: Includes the HPE Smart Storage Battery.	761872-B21
	HP Smart Array P840/4GB FBWC 12Gb 2-ports Int FIO SAS Controller <b>NOTE:</b> Includes the HPE Smart Storage Battery.	761874-B21
	HP Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller	726903-B21
	HPE Smart Host Bus Adapters	72/007 021
	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 726911-B21
	HP H241 12Gb 2-ports Ext Smart Host Bus Adapter	\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	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	777619-B21
	NOTE: One cable kit must be selected with P440 controller.  NOTE: Two of these cable kits must be selected with P840 controller.	/ / 7017-021
	HP DL80 Gen9 LFF Smart HBA H240 SAS Cable Kit	779622-B21
	NOTE: Two cable Kits must be selected with H240.	//7UZZ-DZI

**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 Servers **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.

727258-B21

#### **HPE Tape Backup**

**NOTE:** For the complete range of tape drives, autoloaders, libraries and media see: <a href="http://www.hp.com/go/tape">http://www.hp.com/go/tape</a>. For hardware and software compatibility of HPE tape backup products <a href="http://www.hpe.com/storage/BURAcompatibility">http://www.hpe.com/storage/BURAcompatibility</a>.

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

## **Tape Drives**

HPE StoreEver LTO-7 Ultrium 15000 External Tape Drive	BB874A
HPE StoreEver LTO-6 Ultrium 6650 SAS External Tape Drive	EH964A
HPE StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970A
HPE StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive	EH958B
HPE StoreEver LTO-5 Ultrium 3280 SAS External Tape Drive	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 Fanout 4m Cable	K2R10A
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 Kit	COL99A
HPE StoreEver 1/8 G2 LTO-6 Ultrium 6250 Fibre Channel Tape Autoloader	COH19A
HPE StoreEver MSL6480	
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
	HPE StoreOnce 3540 24TB System	BB914A
	HPE StoreOnce 5100 48TB System	BB915A
	Emulex Fibre Channel HBAs	
Options	HPE 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AJ762B
	HPE 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ763B
	HPE StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter	C8R38A
	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	AJ764A
	HPE 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AK344A
	HPE StoreFabric SN1000Q 16GB 1-port PCle Fibre Channel Host Bus Adapter	QW971A
	HPE StoreFabric SN1000Q 16GB 2-port PCle Fibre Channel Host Bus Adapter	QW972A
	Converged Network Adapter	QW / / Z/ (
	HPE StoreFabric CN1200E 10Gb Converged Network Adapter	E7Y06A
	HPE StoreFabric CN1100R Dual Port Converged Network Adapter	QW990A
	HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter	N3U51A
	HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter	N3U52A
HPE Disk Storage	Disk Enclosures	
Systems	HP D6000 Dual I/O Module Disk Enclosure	QQ695A
	HP D6000 w/35 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 140TB Bundle	E7W30A
	HP D6000 w/70 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 280TB Bundle	E7W31A
	HP D6000 w/70 3TB 6G SAS 7.2K LFF Dual port MDL HDD 210TB Bundle	QQ700A
	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 Bundle	QQ697A
	HP D6000 w/35 3TB 6G SAS 7.2K LFF Dual port MDL HDD 105TB Bundle	QQ699A
	HPE D6000 w/35 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 280TB	MOT58A
	Bundle	
	HPE D6000 w/70 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 560TB Bundle	МОТ59А
HPE Data Center	HPE Advanced Series Racks	
		H6J87A
HPE Data Center Racks	HPE Advanced Series Racks	H6J87A H6J88A

	LIDE 44//0.4075	117177
	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	HPE Basic Power Distribution Units (PDU)	
<b>Distribution Units</b>	HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU	H5M54A
(PDUs)	HPE Basic 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12)	H5M56A
	C13/Horizontal WW PDU	
	HPE Basic 2.8kVA/L5-30P 24A/120V Outlets (18) 5-20R/Vertical NA/JP PDU	H5M55A
	HPE Basic 4.9kVA/60320 C20 Detachable 16A/230V Outlets (20) C13/Vertical	H5M57A
	WW PDU	
	HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (20) C13/Vertical NA/JP PDU	H5M58A
	HPE Basic 7.3kVA/60309 5-wire 32A/230V Outlets (20) C13/Vertical INTL PDU	H5M68A
	HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13/Vertical NA/JP	H5M61A
	PDU	
	HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP	H5M59A
	PDU	
	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)	
HPE Metered 2.8kVA/L5-30P 24A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU	D9N43A
HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU	D9N46A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Horizontal NA/JP PDU	D9N44A
HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (16) C13/Vertical WW PDU	D9N45A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Vertical NA/JP PDU	G9Z05A
HPE Metered 7.3kVA/60309 3-wire 32A/230V Outlets (12) C13/Vertical INTL PDU	G9Z06A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU	D9N47A
HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlets (20) C13 (4) C19/Vertical INTL PDU	D9N48A

9N51A 9N53A 9N55A 9N49A 9N50A
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9N61A
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9N62A
9N54A
9N59A
9Z07A
9N63A
9N56A
9N60A
69Z08A
2D53A
\F520A
AF521A
AF522A
\F523A
AF901A
AF525A
AF526A
AF527A

HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) C19/Horizontal NA/JP PDU	AF535A
HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (12)	AF538A
C19/Horizontal INTL PDU  HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (6)	AF531A
C19/Horizontal NA/JP PDU	
HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (20) C13 (6) C19/Horizontal NA/JP PDU	AF532A
HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF533A
HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU Kit	AF534A
HP 5xC13 Intelligent PDU Extension Bar G2 Kit	AF547A
HP 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar	AF528A
NOTE: Please see the HPE Intelligent Power Distribution Unit (PDU) QuickSpecs	1
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) C13 (6) C19/Vertical NA/JP PDU	H8B52A
HPE Metered Switched 3Ph 8.6kVA/L21-30P 24A/208V Outlets (20)C13 (3)C19 (1)5-20R/Vertical NA/JP PDU	H8B53A
HPE Metered Switched 3Ph 11kVA/60309 5-wire 16A/230V Outlets (21) C13 (3) C19/Vertical INTL PDU	H8B54A
HPE Metered Switched 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	H8B55A
HPE Metered Switched 3Ph 17.3kVA/60309 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	H8B56A
NOTE: Please see the HPE Metered and Switched Power Distribution Units (PDU	J) QuickSpecs
for information on additional options and product specifications.	

for information on additional options and product specifications.

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

<b>HPE Rack Mount</b>
Consoles, KVM
Switches, and
Kevboards

## **HPE Location Discovery Services**

HP Location Discovery Services LCD8500 Kit TL052A NOTE: Please see the HPE Location Discovery Services QuickSpecs for

Technical Specifications and additional information.

## **HPE Rack Mount Consoles**

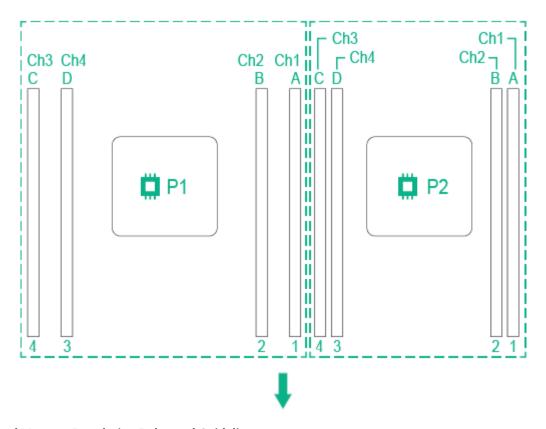
HP LCD8500 1U US Rackmount Console Kit	AF630A
HP LCD8500 1U UK Rackmount Console Kit	AF631A
HP LCD8500 1U DE Rackmount Console Kit	AF632A
HP LCD8500 1U FR Rackmount Console Kit	AF633A
HP LCD8500 1U JP Rackmount Console Kit	AF642A
HP LCD8500 1U RU Rackmount Console Kit	AF643A
HP LCD8500 1U INTL Rackmount 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	
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
HP Advanced Power Manager Kit	741192-B21

HPE Uninterruptible	e HPE DirectFlow Three Phase UPS	
Power Systems	Power Unit (1U UPS)	
(UPS)	HPE R12000 DirectFlow - 1U Rackmount Uninterruptible Power System	G9Y75A
	HPE R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System	AF478A
	HPE RP12000/3 12000VA Three Phase INTL 6U Rackmount Uninterruptible Power System	AF437A
	Input/Output Module Options for 1U UPS	
	HPE 32A 400-415 Volt Three Phase INTL R12000 DirectFlow UPS IEC309 Input/Output Module	AF488A
	HPE 30A 400-415 Volt Three Phase NA R10000 DirectFlow UPS IEC309 Input/Output Module	AF489A
	HPE 32A 380 Volt Three Phase China R12000 DirectFlow UPS Unterminated Input/Output Module	AF490A
	HPE 30A 480 Volt Three Phase NA R12000 DirectFlow UPS L22-30 Input/Output Module	AF491A
	HPE 30A 480 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module	AF492A
	HPE 30A 400-415 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module	G9Y76A
	Power Unit (2U UPS)	
	HPE R18000 DirectFlow - 2U Rackmount Uninterruptible Power System	AF479A
	Input/Output Module Options for 2U UPS	
	HPE 32A 400-415 Volt Three Phase INTL R18000 DirectFlow UPS IEC309 Input/Output Module	AF483A
	HPE 30A 380 Volt Three Phase China R18000 DirectFlow UPS Unterminated Input/Output Module	AF485A
	HPE 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	AF486A
	HPE 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	AF487A
	HPE 30A 400 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	D9Q02A
	HPE 30A 400-415V Three Phase NA R18000 DirectFlow UPS 1:1 IEC309 Input/Output Module	AF484A
	NOTE: All Input/Output Modules support dual output outlets except the AF484A.	
	Battery Pack Options	
	HPE DirectFlow UPS - 1U Rackmount Lithium-ion Battery Pack	AF480A
	HPE DirectFlow UPS - 3U Rackmount VRLA Battery Pack	AF482A
	HPE WW DirectFlow Secondary Battery Cable	AF497A
	<b>NOTE:</b> Please see the <b>HPE DirectFlow Three Phase Uninterruptible Power System Q</b> for information on additional options and product specifications.	uickSpecs
	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
	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 R/T2200 G4 ND/S Models HPE R/T3000 G4 UPS Models HPE R/T3000 G4 UPS Models HPE R/T3000 G4 Low Voltage NA/JP Uninterruptible Power System J2R02A HPE R/T3000 G4 High Voltage NA/JP Uninterruptible Power System J2R02A HPE R/T3000 G4 High Voltage NA/JP Uninterruptible Power System J2R02A R1500 G4 Models HPE R1500 G4 No Uninterruptible Power System J2R05A HPE R1500 G4 No Uninterruptible Power System J2R05A HPE R1500 G4 JP/TWN Uninterruptible Power System AF462A HPE R7000 4U DEC-322A High Voltage INTL Uninterruptible Power System AF463A R5000 Uninterruptible Power System (UPS) HPE R5000 3U L630 High Voltage INTL Uninterruptible Power System AF460A HPE R5000 3U L630 High Voltage INTL Uninterruptible Power System AF460A HPE R5000 3U L630 High Voltage INTL Uninterruptible Power System AF460A HPE RF3000 G4 Extended Runtime Module J2R10A HPE RF73000 G4 Extended Runtime Module J2R10A HPE RF73000 G4 Extended Runtime Module J2R10A HPE RAF73000 G4 Extended Runtime Module J2R10A HPE DIRAck/Tower UPS Shipping Kir L40111A HPE DirectFlow UPS Management Card 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 3CGB microSD Enterprise Mainstream Flash Media Kit T20110-E21 HP 8CB microSD Enterprise Mainstream Flash Media Kit T20110-E21 HP 8CB usb Enterprise Mainstream Flash Media Kit T20110-E21 HP 8CB usb Enterprise Mainstream Flash Media Rit T37953-B21 HP BCB USB Enterprise Mainstream Flash Media Rit T41279-B21  HPE Support Service HPE Installation At Start-up Service U7WC5E HPE 3 year Foundation Care Next business day with DMR DL80 Gen9 Service U7WC5E HPE 3 year Foundation Care 24x7 WolMR DL80 Gen9 Service U7WC5E HPE 3 year Foundation Care 24x7 WolMR DL80 Gen9 Service U7WC5E HPE 3 year Fou		HPE Rack/Tower UPS	
HPE R/T3000 G4 Low Voltage NA/JP Uninterruptible Power System J2R01A HPE R/T3000 G4 High Voltage NA/JP Uninterruptible Power System J2R02A HPE R/T3000 G4 High Voltage NA/JP Uninterruptible Power System J2R02A R1500 G6 Models HPE R1500 G4 NA Uninterruptible Power System J2099A HPE R1500 G4 NA Uninterruptible Power System J2099A HPE R1500 G4 NFU Uninterruptible Power System J2R05A HPE R1500 G4 NFU Uninterruptible Power System J2R05A HPE R1500 G4 NFU Uninterruptible Power System J2R03A R7000 Uninterruptible Power System (UPS) HPE R7000 4U IEC-32A High Voltage NA/JP Uninterruptible Power System AF462A HPE R7000 G4 USC-32A High Voltage NFU Uninterruptible Power System AF463A R5000 Uninterruptible Power System (UPS) HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System AF461A NOTE: Please see the HPE Line Interactive Single Phase UPS QuickSpecs for Information on additional options and product specifications. HPE UPS Options HPE R77200 G4 Extended Runtime Module HPE R77300 G4 Extended Runtime Module			10.700.4
HPE R/T3000 GA Low Voltage NA/JP Uninterruptible Power System J2R02A HPE R/T3000 GA High Voltage INTL Uninterruptible Power System J2R02A HPE R/T3000 GA High Voltage INTL Uninterruptible Power System J2R04A R1500 GA Models HPE R1500 GA INTL Uninterruptible Power System J2R05A HPE R7000 4U 50A High Voltage NA/JP Uninterruptible Power System AF462A HPE R7000 4U 50A High Voltage INTL Uninterruptible Power System AF463A R5000 Uninterruptible Power System W18A R5000 J0 L630 High Voltage NA/JP Uninterruptible Power System AF460A HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System AF460A HPE R5000 J0 L630 High Voltage INTL Uninterruptible Power System AF461A NOTE: Please see the HPE Line Interactive Single Phase UPS QuickSpecs for Information on additional options and product specifications.  HPE UPS Options HPE R77200 G4 Extended Runtime Module J2R00A HPE R77200 G4 Extended Runtime Module HPE R77200 G4 Extended Runtime Module HPE R773000 G4 Extended Runtime Module HPE R773000 G4 Extended Runtime Module HPE R773000 G5 Extended Runtime Module HPE R773000 G5 Extended Runtime Module HPE R773000 G5 Extended Runtime Module HPE R773000 G6 Extended R011 HPE R773000 G7 Extended R011 HPE R773000 G7 Extended R011 HPE R773000 HPE R77300 HPE R77		·	J2R00A
HPE R/T3000 G4 High Voltage NA/JP Uninterruptible Power System J2R04A R1500 G4 Models HPE R1500 G4 Na Uninterruptible Power System J2R05A HPE R1500 G4 Na Uninterruptible Power System J2R05A HPE R1500 G4 Na Uninterruptible Power System J2R05A HPE R1500 G4 JP/TWN Uninterruptible Power System J2R05A HPE R1500 G4 IP/TWN Uninterruptible Power System J2R05A HPE R1500 G4 INTL Uninterruptible Power System J2R05A R7000 Uninterruptible Power System (UPS) HPE R7000 4U J0A High Voltage NA/JP Uninterruptible Power System AF462A HPE R7000 4U J0A High Voltage INTL Uninterruptible Power System AF463A R5000 Uninterruptible Power System (UPS) HPE R7000 3U L630 High Voltage INTL Uninterruptible Power System AF460A HPE R5000 3U L630 High Voltage INTL Uninterruptible Power System AF461A NOTE: Please see the HPE Line Interactive Single Phase UPS QuickSpecs for information on additional options and product specifications. HPE UPS Options HPE R71200 G4 Extended Runtime Module J2R00A HPE 2U Rack/Tower UPS Shipping Kit JHE Directiflow UPS Management Card NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) web page  HPE USB and SD Options HPE Bush Management Card NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) web page  HPE USB and SD Options HPE Bush Management Card NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) web page  HPE USB and SD Options HPE Bush Management Card NOTE: To learn more, please visit the Media Kits for Memory Cards HP 30B microSD Enterprise Mainstream Flash Media Kit 700139-B21 HP 80B microSD Enterprise Mainstream Flash Media Kit 70214279-B21  HPE Support Services HPE Installation & Start-up Service U7WZ5E HPE 3 year Foundation Care Next business day with DMR DL80 Gen9 Service U7WG2E HPE 3 year Foundation Care Next business day with DMR DL80 Gen9 Service U7WG3E HPE 3 year Foundation Care Vext WoMR DL80 Gen9 Service U7WG5E HPE 3 year Foundation Care 24x7 DL80 Gen9 Service U7WG5E HPE 3 year Foundation Care 24x7 DL80 Gen9 Service U7WG5			100044
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R7000 Uninterruptible Power System (UPS) HPE R7000 4 Ul SOA High Voltage NAI, Duninterruptible Power System AF462A HPE R7000 4 Ul EC-32A High Voltage INTL Uninterruptible Power System AF463A R5000 Uninterruptible Power System (UPS) HPE R5000 3U L630 High Voltage NAI, PUninterruptible Power System AF460A HPE R5000 3U L630 High Voltage NAI, PUninterruptible Power System AF460A HPE R5000 3U L630 High Voltage NAI, PUninterruptible Power System AF461A NOTE: Please see the HPE Line Interactive Single Phase UPS QuickSpecs for information on additional options and product specifications. HPE UPS Options HPE R71200 G4 Extended Runtime Module J2R10A HPE R713000 G4 Extended Runtime Module J2R10A HPE PR713000 G4 Extended Runtime Module J2R10A HPE DIPECTIFION UPS Management Card AF493A NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) web page  HPE USB and SD Options HPE GR7200 G4 Extended Runtime Media Kits for Memory Cards Options HP 3GB microSD Enterprise Mainstream Flash Media Kit for Memory Cards Options HP 8GB microSD Enterprise Mainstream Flash Media Kit 700139-B21 HP 8GB microSD Enterprise Mainstream Flash Media Kit 726116-B21 HP 8GB uls Enterprise Mainstream Flash Media Kit 726116-B21 HP BGB microSD Enterprise Midline USB Kit 737953-B21 HP Dual 8GB microSD Enterprise Midline USB Kit 741279-B21  HPE Support Services HPE Installation & Start-up Service U7WZ5E HPE Sayer Foundation Care Next business day with CDMR DL80 Gen9 Service U7WG7E HPE 3 year Foundation Care Next business day with CDMR DL80 Gen9 Service U7WG3E HPE 3 year Foundation Care 24x7 wCDMR DL80 Gen9 Service U7WG5E HPE 3 year Foundation Care 24x7 wCDMR DL80 Gen9 Service U7WG5E HPE 3 year Foundation Care 24x7 WCDMR DL80 Gen9 Service U7WG5E HPE 3 year Foundation Care 24x7 WCDMR DL80 Gen9 Service U7WG5E HPE 3 year Foundation Care 24x7 WCDMR DL80 Gen9 Service U7WG5E HPE 3 year Foundation Care 24x7 wCDMR DL80 Gen9 Service U7WG5E HPE 3 year Foundation Care 24x7 wCDMR DL80 Gen9 Service U7WG5E HPE 3 year Foundation Care 24x7 wCDMR DL80		·	
HPE R7000 4U ISOA High Voltage NA/JP Uninterruptible Power System AF462A HPE R7000 AU IEC-32A High Voltage INTL Uninterruptible Power System AF463A R5000 Uninterruptible Power System (NEW) HPE R5000 3U L630 High Voltage INTL Uninterruptible Power System AF460A HPE R5000 3U IEC309-32A High Voltage INTL Uninterruptible Power System AF461A NOTE: Please see the HPE Line Interactive Single Phase UPS QuickSpecs for information on additional options and product specifications.  HPE UPS Options HPE R77200 G4 Extended Runtime Module JZR10A HPE 2U Rack/Tower UPS Shipping Kit L4011A HPE DirectFlow UPS Management Card AF493A NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) web page.  HPE UBB and SD Options HPE S3CB microSD Enterprise Mainstream Flash Media Kits for Memory Cards Options HP 8GB USB Enterprise Mainstream Flash Media Kits for Memory Cards HP 8GB microSD Enterprise Mainstream Flash Media Kit 700139-B21 HP 8GB USB Enterprise Mainstream Flash Media Kit 737953-B21 HP Dual 8GB microSD Enterprise Midline USB Kit 741279-B21  HPE Support Installation & Start-up Services HPE Installation ML/DL Series 10 Service U7WZFE Foundation Care HPE 3 year Foundation Care Next business day with DMR DL80 Gen9 Service U7WGFE HPE 3 year Foundation Care Next business day with DMR DL80 Gen9 Service U7WGFE HPE 3 year Foundation Care 24x7 wDL80 Gen9 Service U7WGFE HPE 3 year Foundation Care 24x7 wDL80 Gen9 Service U7WGFE HPE 3 year Foundation Care 24x7 wDL80 Gen9 Service U7WGFE HPE 3 year Foundation Care 24x7 wDL80 Gen9 Service U7WGFE HPE 3 year Foundation Care 24x7 wDL80 Gen9 Service U7WGFE HPE 3 year Foundation Care 24x7 wDL80 Gen9 Service U7WGFE HPE 3 year Foundation Care 24x7 wDL80 Gen9 Service U7WGFE HPE 3 year Foundation Care 24x7 wDL80 Gen9 Service U7WGFE HPE 3 year Foundation Care 24x7 wDL80 Gen9 Service U7WGFE HPE 3 year Foundation Care 24x7 wDL80 Gen9 Service U7WGFE HPE 3 year Foundation Care 24x7 wDL80 Gen9 Service U7WGFE HPE 3 year Foundation Care 24x7 bDL80 Gen9 Service U7WGFE HPE 3 year Foundati		,	J2R03A
HPE R7000 4U IEC-32Â High Voltage INTL Uninterruptible Power System R8000 Uninterruptible Power System (UPS) HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System AF460A HPE R5000 3U L62309-32A High Voltage INTL Uninterruptible Power System AF461A NOTE: Please see the HPEL Line Interactive Single Phase UPS QuickSpecs 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 DirectFlow UPS Management Card HPE DirectFlow UPS Management Card NOTE: To learn more, please visit the HPE Uninterruptible Power Systems (UPS) web page.  HPE USB and SD HPE Enterprise Mainstream Flash Media Kits for Memory Cards Options HP 32GB microSD Enterprise Mainstream Flash Media Kit HP 8GB microSD Enterprise Midline USB Kit T26116-B21 HP 8GB microSD Enterprise Midline USB Kit T2479-B21  HPE Support Installation & Start-up Service HPE Startup ML/DL Series 10 Service U7WZ7E Foundation Care HPE 3 year Foundation Care Next business day DL80 Gen9 Service U7WG2E HPE 3 year Foundation Care Next business day with DMR DL80 Gen9 Service U7WG3E HPE 3 year Foundation Care Next business day with DMR DL80 Gen9 Service U7WG4E HPE 3 year Foundation Care 24x7 wDL80 Gen9 Service U7WG5E HPE 3 year Foundation Care 24x7 wDMR DL80 Gen9 Service U7WG5E HPE 3 year Foundation Care 24x7 wDMR DL80 Gen9 Service U7WG5E HPE 3 year Foundation Care 24x7 DL80 Gen9 Service U7WG5E HPE 3 year Foundation Care 24x7 DL80 Gen9 Service U7WG5E HPE 3 year Foundation Care 24x7 DL80 Gen9 Service U7WG5E HPE 3 year Foundation Care 24x7 DL80 Gen9 Service U7WG5E HPE 3 year Foundation Care 24x7 DL80 Gen9 Service U7WG5E		·	
R5000 Uninterruptible Power System (UPS)  HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System AF460A  HPE R5000 3U L6309-32A High Voltage INTL Uninterruptible Power System AF461A  NOTE: Please see the HPE Line Interactive Single Phase UPS QuickSpecs for information on additional options and product specifications.  HPE UPS Options  HPE R/T2000 G4 Extended Runtime Module J2R10A  HPE R/T3000 G4 Extended Runtime Module J2R10A  HPE 2U Rack/Tower UPS Shipping Kit L4011A  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  Options  HP 32GB microSD Enterprise Mainstream Flash Media Kit  HP 86B microSD Enterprise Mainstream Flash Media Kit  HP 86B microSD Enterprise Mainstream Flash Media Kit  HP 86B microSD Enterprise Mainstream Flash Media Drive Key Kit  HP 34B MB			
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Foundation Care  HPE 3 year Foundation Care Next business day DL80 Gen9 Service  HPE 3 year Foundation Care Next business day with DMR DL80 Gen9 Service  HPE 3 year Foundation Care Next business day with CDMR DL80 Gen9 Service  HPE 3 year Foundation Care Next business day with CDMR DL80 Gen9 Service  HPE 3 year Foundation Care 24x7 DL80 Gen9 Service  HPE 3 year Foundation Care 24x7 wDMR DL80 Gen9 Service  HPE 3 year Foundation Care 24x7 wCDMR 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			
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		·	

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 Bandwidth and Capacity						
[DIMM Type]		Load Reduced (LRDIMMs)				
HPE SKU P/N	805347-B21	805349-B21	836220-B21	805351-B21	805353-B21	
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank	
DIMM Capacity	8GB	16GB	16GB	32GB	32GB	

Voltage	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V			
DRAM Depth [bit]	1G	1G	2G	2G	2G			
DRAM Width [bit]	x8	x4	x4	x4	x4			
DRAM Density	8Gb	8Gb	4Gb	8Gb	8Gb			
CAS Latency	17-17-17	17-17-17	17-17-17	17-17-17	17-17-17			
DIMM Native Speed (MT/s)	2400	2400	2400	2400	2400			
SLOTS THAT CAN BE POPULAT	ED							
8 slot servers	8	8	8	8	8			
MAXIMUM CAPACITY (GB)	MAXIMUM CAPACITY (GB)							
	64	128	128	256	256			
POPULATED DIMM SPEED (MT/s	<u> </u> s)							
1 DIMM Per Channel	2400	2400	2400	2400	2400			
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 applicable on DL80.

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

Memory Bandwidth and	Capacity							
[DIMM Type]		Registered DIMMs (RDIMMs)					Load Reduced (LRDIMMs)	
HPE SKU P/N	726717-B21	726718-B21	759934-B21	726719-B21	728629-B21	726720-B21	726722-B21	
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank	Dual Rank	Quad Rank	
DIMM Capacity	4GB	8GB	8GB	16GB	32GB	16GB	32GB	
Voltage	-	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	
DRAM Depth [bit]	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 P	OPULATED							
8 slot servers	8	8	8	8	8	8	8	
MAXIMUM CAPACITY (	GB)	<u>I</u>	l	Į.	l	Į.	l	
	32	64	64	128	256	128	256	
POPULATED DIMM SPE	ED (MT/s)	l	l	I	l	I	l	
1 DIMM Per Channel	2133	2133	2133	2133	2133	2133	2133	

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

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

# DIMM slot and configuration diagram

#### DIMM slot and configuration diagrams

#### Basic memory slot & population diagram

- Population order; start with "A" first, "B" second, "C" third, etc.
- When one processor is installed, install DIMMs in sequential alphabetic order: A, B, C, D, E, F.
- When two processors are installed, install DIMMs in sequential alphabetic order: CPU1-A, CPU2-A,CPU1-B,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		anu a	
		CPUI	CPU 2	
	Slot #	population order	Slot # population order	
Chnl 4	Slot #	T.		
Chnl 4		population order	Slot # population order	
Chnl 4	3	population order D3	Slot # population order  3 D3	

#### 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

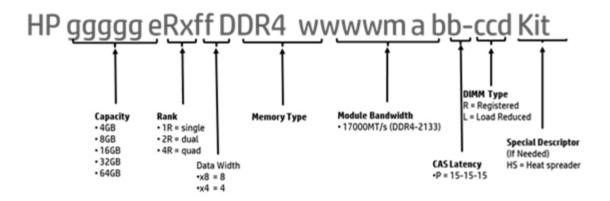
Standard and Maximum Memory Capacity (Preconfigured Models)

<i>'</i>	_	•	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)

#### DDR4 memory options part number decoder

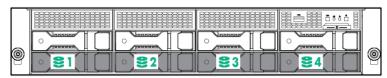
NOTE: Capacity references are rounded to the common gigabyte (GB) values.

- 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



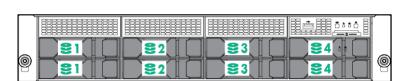
 $4 \times LFF$  SATA Non-Hot Pluggable Hard Drive Bays

1-4

1-8

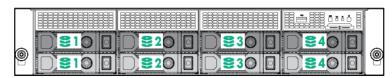
1-8

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



 $8 \times LFF SATA/SAS/SDD Hot Pluggable Hard Drive Bays$ 

12-bay LFF hot-plug drive model



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

System	Unit
-,	•

**Dimensions** 

3.45 x 18.98 x 24.97 in (8.75 x 44.55 x 60.7 cm)

(with bezel)

Weight (approximate) Maximum: 47/6 lb (21.59 kg) 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),

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

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

**Power Specifications** 

To review typical system power ratings use the Power Advisor which is available via the online tool located at URL: <a href="http://www.hp.com/go/proliant-energy-efficient">http://www.hp.com/go/proliant-energy-efficient</a> or <a href="http://www.hp.com/go/hppoweradvisor">http://www.hp.com/go/hppoweradvisor</a> - Click on the system of interest.

Example: DL80 Gen9- Follow the instructions of the next screens.

**Power Supply** Output

Rated Steady-State Power

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

550 W (at 200 VAC),

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

System Inlet **Temperature**  Standard

10° to 35°C (50° to 95°F) at sea level with an altitude derating Operating Support of 1.0°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 For approved hardware configurations, the supported system

Operating Support inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 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 fault.

**NOTE:** Supports A3 extended ambient.

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

20°C/hr (36°F/hr).

Relative Operating Minimum to be the higher (more moisture) of -12°C (10.4°F) Humidity

dew point or 8% relative humidity. Maximum to be the lower

(less moisture) of 24°C (75.2°F) dew point or 90% relative

humidity.

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

wet bulb temperature, non-condensing.

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

number of options installed. Maximum allowable altitude change

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

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

457 m/min (1500 ft/min).

**Acoustic Noise** Listed are the declared A-Weighted sound power levels (LWAd) and declared

average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance

with ISO 9296 (ECMA 109).

Idle

L WAd Entry: 4.8 B

Base: 4.7 B

L pAm Entry: 34 dBA

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

(EMC)

Normative

Class A

Standards

FCC Rating

CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; 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.

**HPE Dynamic Smart Array B140i Controller** 

Number of PCI

Four

links

PCI link rate 4 Gb/s

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 supported** Up to 10 Internal Drives

(max)

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

management

Warranty Server warranty Not Supported **HPE Secure** 

**Encryption** license

**HPE SmartCache** Not Supported

License

**HPE Smart** 

Supported

Storage **Administrator** 

**HPE Embedded** Dual Port 361i **Adapter** 

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

Compatibility IEEE 802.3 10Base-T

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

IEEE 802.3az - Energy Efficient Ethernet (EEE)

**Data Transfer** 

Method

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

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

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

10Base-T (Full-

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

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

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

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

**Environment**friendly 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: <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a>. To recycle your product, please go to: <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a> 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: <a href="http://www.hp.com/go/green">http://www.hp.com/go/green</a>. 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**

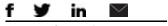
Date	Version History	Action	Description of Change
28-Oct-2016	From Version 16 to 17	Removed	Obsolete Hard Drives were removed from the
			QuickSpecs.
26-Sep-2016	From Version 15 to 16	Added	Added new 10TB SATA Hot Plug LFF drives
			offering and new 900W AC/ 240VDC power
		Cleanand	supply.
		Changed	HPE Power Supplies section was revised.
17.1.001/	5 1/ 1/ 15	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	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, Pre-configured
			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
2 2 2 2 2 2 2		,	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.
28-Sep-2015	From Version 7 to 8	Added	Added new 6Gb SATA Solid State Drives.
		Danasa	Added new HPE OneView management software.
17 A 2015	[mana \ /a mi = 1   7	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

# **Summary of Changes**

		•	
			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.
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.



# **Summary of Changes**



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

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