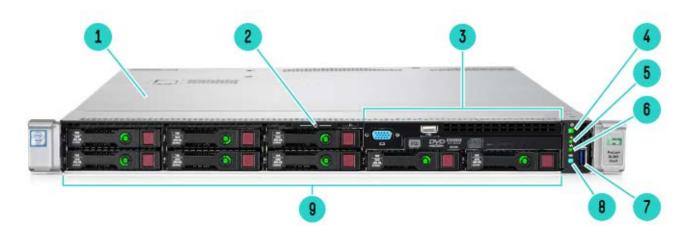
Overview

ProLiant DL360 Generation9 (Gen9)

The Hewlett Packard Enterprise leading server for dense general-purpose computing, the HPE ProLiant DL360 Gen9 Server delivers increased performance with the best memory and I/O expandability packed in a 1U dense rack design. Reliability, serviceability and always on availability, backed by a comprehensive warranty, make it ideal for the most space constrained server workloads.



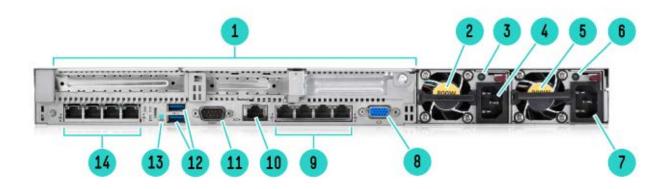
Front View

- 1. Access Panel
- HPE Universal Media Bay or NVMe NOTE: Shown w/ VGA, USB 2.0 and DVD-ROM or DVD-RW option. Alternative options: NVMe HDD Kits, 2 SFF HDDs or VGA and USB 2.0.
- 5. Health LED
- 7. USB 3.0 Connector
- 9. SAS/SATA/SSD/NVMe Drive Bays
 NOTE: 8SFF Model shown can be configured:
 8 SAS/SATA Drives or 10 SAS/SATA drives
 4 SAS/SATA (Drive 1-4) + 6 NVMe (Drive 5-10)
 8 SAS/SATA + Universal Media Bay
 - 4 LFF Models are also available.

- 2. Serial Label Pull Tab
- 4. Power On/Standby button and system power LED button
- 6. NIC Status LED
- 8. Unit Identification Button & LED



Overview

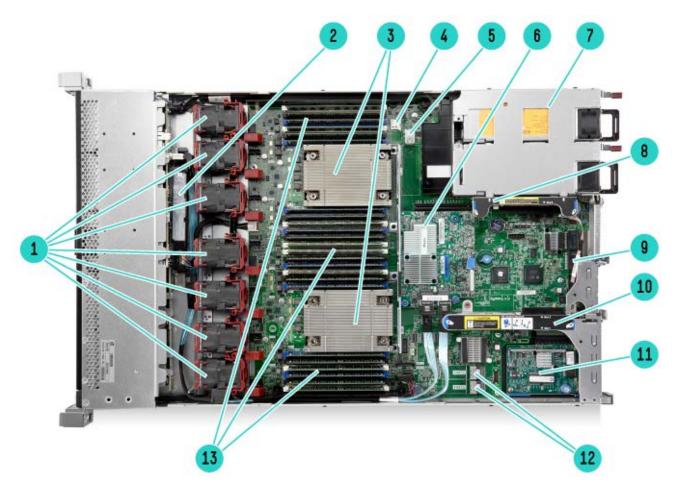


Rear View

- PCle 3.0 Slots 1-3
 NOTE: Slot 1 and 2 Riser Ships Standard, Slot 3 Optional one FH/ ¾ length and two Low Profile slots available (shown) or two FH/ ¾ length slots.
- 3. Power Supply 2 Status LED
- 5. HPE Flexible Slot Power Supply Bay 1
- 7. Power Supply 1 C13 Connection
- 9. Embedded 4x1GbE Network Adapter
- 11. Serial Port Connector (Optional)
- Unit Identification LED

- 2. HPE Flexible Slot Power Supply Bay 2
- 4. Power Supply 2 C13 Connection
- 6. Power Supply 1 Status LED
- 8. Video Connector
- 10. Dedicated iLO 4 connector
- 12. USB 3.0 Connectors (2)
- 14. FlexibleLOM bay (Optional) **NOTE:** Shown: 4x1Gbe.

Overview



Internal View

- 1. 5 Standard Fans Ship for 1P and 7 Standard Fans Ship for 2P **NOTE:** High Performance Fans also available as an option.
- 3. 2 Processors with HPE Smart Socket Guide
- 5. Dual Internal USB 3.0 connector
- 7. 2 HPE Flexible Slot Power supplies **NOTE:** Optional Micro UPS option
- 9. Embedded 4x1Gbe NIC
- 11. FlexibleLOM Bay (Optional)

- 2. HPE Smart Storage Battery (Optional)
- 4. MicroSD card slot NOTE: Optional Dual Micro-SD option.
- 6. HPE Flexible Smart Array or Smart HBA (Optional) **NOTE:** H240ar shown and P440ar available.
- Secondary PCIe 3.0 riser for PCIe slot 3 (requires CPU 2)
- 10. Primary PCIe 3.0 riser for PCIe slots 1 & 2
- 12. Embedded SATA Controller ports

What's New

• Updated HDDs and SSDs

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

Processor Up to two of the	Model	CPU frequency	Cores	L3 Cache	Power	QPI	DDR4 Hz
following depending on model	E5-2699v3	2.3GHz	18	45MB	145W	9.6GT/s	2133
on model	E5-2698v3	2.3GHz	16	40MB	135W	9.6GT/s	2133
·	E5-2697v3	2.6GHz	14	35MB	145W	9.6GT/s	2133
	E5-2695v3	2.3GHz	14	35MB	120W	9.6GT/s	2133
ľ	E5-2690v3	2.6GHz	12	30MB	135W	9.6GT/s	2133
	E5-2687Wv3	3.1GHz	10	25MB	160W	9.6GT/s	2133
	E5-2683v3	2.0GHz	14	35MB	120W	9.6GT/s	2133
	E5-2680v3	2.5GHz	12	30MB	120W	9.6GT/s	2133
	E5-2670v3	2.3GHz	12	30MB	120W	9.6GT/s	2133
	E5-2667v3	3.2GHz	8	20MB	135W	9.6GT/s	2133
	E5-2660v3	2.6GHz	10	25MB	105W	9.6GT/s	2133
	E5-2650v3	2.3GHz	10	25MB	105W	9.6GT/s	2133
	E5-2650Lv3	1.8GHz	12	30MB	65W	9.6GT/s	2133
	E5-2643v3	3.4GHz	6	20MB	135W	9.6GT/s	2133
	E5-2640v3	2.6GHz	8	20MB	90W	8.0GT/s	1866
	E5-2637v3	3.5GHz	4	15MB	135W	9.6GT/s	2133
	E5-2630v3	2.4GHz	8	20MB	85W	8.0GT/s	1866
-	E5-2630Lv3	1.8GHz	8	20MB	55W	8.0GT/s	1866
·	E5-2623v3	3.0GHz	4	10MB	105W	8.0GT/s	1866
·	E5-2620v3	2.4GHz	6	15MB	85W	8.0GT/s	1866
	E5-2609v3	1.9GHz	6	15MB	85W	6.4GT/s	1600
	E5-2603v3	1.6GHz	6	15MB	85W	6.4GT/s	1600
	E5-2699v4	2.2GHz	22	55MB	145W	9.6GT/s	2400
	E5-2698v4	2.2GHz	20	50MB	135W	9.6GT/s	2400
	E5-2697v4	2.3GHz	18	45MB	145W	9.6GT/s	2400
	E5-2697Av4	2.6GHz	16	40MB	145W	9.6GT/s	2400
	E5-2695v4	2.1GHz	18	45MB	120W	9.6GT/s	2400
	E5-2690v4	2.6GHz	14	35MB	135W	9.6GT/s	2400
·	E5-2687Wv4	3.0GHz	12	30MB	160W	9.6GT/s	2400
- - -	E5-2683v4	2.1GHz	16	40MB	120W	9.6GT/s	2400
	E5-2680v4	2.4GHz	14	35MB	120W	9.6GT/s	2400
	E5-2667v4	3.2GHz	8	25MB	135W	9.6GT/s	2400
	E5-2660v4	2.0GHz	14	35MB	105W	9.6GT/s	2400
	E5-2650v4	2.2GHz	12	30MB	105W	9.6GT/s	2400
	E5-2650Lv4	1.7GHz	14	35MB	65W	9.6GT/s	2400
	E5-2643v4	3.4GHz	6	20MB	135W	9.6GT/s	2400
	E5-2640v4	2.4GHz	10	25MB	90W	8.0GT/s	2133
1	E5-2637v4	3.5GHz	4	15MB	135W	9.6GT/s	2400

E5-2630v4	2.2GHz	10	25MB	85W	8.0GT/s	2133
E5-2630Lv4	1.8GHz	10	25MB	55W	8.0GT/s	2133
E5-2623v4	2.6GHz	4	10MB	85W	8.0GT/s	2133
E5-2620v4	2.1GHz	8	20MB	85W	8.0GT/s	2133
E5-2609v4	1.7GHz	8	20MB	85W	6.4GT/s	1866
E5-2603v4	1.7GHz	6	15MB	85W	6.4GT/s	1866
E5-2699Av4	3.6GHz	22	55MB	145W	9.6GT/s	2400

NOTE: Mixing of E5-2600 v3 and E5-2600 v4 processors is not supported **NOTE:** All processors support Hyper-Threading except E5-2609 v4/v3 and E5-2603 v4/v3. **NOTE:** Processors consuming up to 120w ship with standard heat sink.

- Processors consuming over 120w ships with a High Performance heat sink as standard.
- A High Performance heat sink can be added to help reduce power consumption (795235-B21).

Chipset

Intel® E5-2600v3 Processor Family

Intel® E5-2600v4 Processor Family

Intel[®] C610 Series Chipset

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

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

On System

HPE iLO (Firmware HPE iLO4 2.0 or later) 4GB NAND

Management Chipset NOTE: 1GB USB user space configurable via UEFI and accessible via iLO. Read and learn more in the iLO QuickSpecs.

Memory One of the following depending on model	Туре:						
	HPE SmartMemory						
	DDR4 Registered (RDI	MM) or Loa	d Reduced (LRDIMM)				
	DIMM Slots Available	24	(12 DIMM slots per processor, 4 channels per processor, 3 DIMMs per channel)				
	Maximum Capacity (LRDIMM)	3TB	(24 x 128GB LRDIMM)				
	Maximum Capacity (RDIMM)	768GB	(24 x 32GB RDIMM)				
	Maximum Capacity (NVDIMM)	128GB	(16 x 8GB NVDIMM)*				
	NVDIMM support only with the E5-2600v4 processors, and RDIMMs only						
	 *NVDIMMs ca *A maximum c NVDIMMs are 	nnot be use of 16 NVDII only suppo	e mixed with any other size DIMMs. ed with LRDIMMs. MMs can be supported. orted on factory configured servers with E5-2600 v4 processors, not graded from E5-2600 v3 to E5-2600 v4 processors.				

Memory ProtectionAdvanced ECCAdvanced ECC uses single device data correction to detect and correct single and
all multibit error that occurs within a single DRAM chip.Online SpareMemory online spare mode detects a rank that is degrading and switches
operation to the spare rank.

Expansion Slots

Primary Riser	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	1	PCle 3.0	X16	X16	7	Full-height, ¾ length (up to 9.5") Slot	Proc 1
	2	PCle 3.0	X8	X16	10	Full-height, half-length slot	Proc 1
	3	PCle 3.0	X8	X8	13	Half length/full height	Proc 1

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

Secondary Riser	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	3	PCle 3.0	X16	X16	16	Full-height, full-length slot	Proc 2
	3	PCle 3.0	X16	X16	20	Full-height, full-length slot	Proc 2

NOTE: *If secondary FH kit (867249-B21) is installed, then primary PCIe Slot 2 cannot be used. Only 2 FH slots are supported.

Storage Controller One of the following depending on model	 For legacy mo For CTO orde NOTE: The embedded 	HPE Dynamic Smart Array B140i Controller HPE H240ar Smart Host Bus Adapter 5 Entry models, the embedded B140i will operate in UEFI mode only. 5 de support an additional controller will be needed. rs please also select "HPE Legacy FIO Mode Setting", 758959-B22. I B140i defaults to AHCI off the chipset. HPE Dynamic Smart Array Controller in the SATA only models if needed.
	Base Models	HPE Flexible Smart Array P440ar/2GB
	Performance Models	HPE Flexible Smart Array P440ar/2GB
Internal Storage Devices One of the following depending on model	Optical Drive	8 SFF with optional Universal Media bay Option Kit 764632-B21 VGA, SFF DVD-RW USB Kit Option Kit 818213-B21 VGA, SFF DVD-ROM USB Kit 4 LFF Option Kit 726536-B21 - HPE 9.5mm SATA DVD-ROM Jb Gen9 Kit Option Kit 726537-B21 - HPE 9.5mm SATA DVD-RW Jb Gen9 Kit NOTE: Optical cable kit Required for optical drives, 766203-B21.

Hard Drives	None ship standard
Hard Drive Bays	8 SFF with optional Universal Media Bay or NVMe drive support
	4 LFF
	10 SFF; 8 SFF Model with optional 2 SFF SAS/SATA kit: 764630-B21 NOTE: HPE ProLiant DL360 Servers offer both SFF and LFF versions.
	NOTE: Pre-configured models come populated with some hard drive blanks. To order additional (single) hard drive blanks, use either:
	P/N 666987-B21: HPE SFF Hard Drive Blank Kit or
	P/N 666986-B21: HPE LFF Hard Drive Blank Kit.
	NOTE: The 2SFF kit comes with cable for internal B140i SATA controller. For SAS an alternate storage controller and cable kit are required.

Maximum Internal		CAPACITY	CONFIGURATION
Storage	Hot Plug SFF SAS SSD	38.4TB	10 x 3.84TB
	Hot Plug SFF SATA SSD	38.4TB	10 x 3.84TB
	Hot Plug SFF SAS	20.0TB	10 x 2.0TB
	Hot Plug SFF SATA	20.0TB	10 x 2.0TB
	Hot Plug LFF SAS SSD	6.4TB	4 x 1.6TB
	Hot Plug LFF SATA SSD	15.36TB	4 x 3.84TB
	Hot Plug LFF SAS	40.0TB	4 x 10TB
	Hot Plug LFF SATA	40.0TB	4 x 10TB
	Hot Plug SFF NVMe PCle SSD	27.36TB	6 x 2.0TB NVMe + 4 x 3.84TB SFF SSD

Power Supply

One of the following depending on model

HPE 500W Flex Slot Platinum Hot Plug Power Supply

NOTE: Available in 94% efficiency.

HPE 800W Flex Slot Platinum Hot Plug Power Supply

NOTE: Available in 94% and 96% efficiency.

NOTE: Also available in -48VDC and 227VAC/380VDC power inputs, 720480-B21.

HPE 1400W Flex Slot Platinum Plus Hot Plug Power Supply

NOTE: Available in 94% efficiency.

HPE Flexible Slot Battery Backup Unit Kits

NOTE: Flex Slot Battery Backup provides 750W output and 500W in paralleled configuration.

HPE Flexible Slot (Flex Slot) Power Supplies share a common electrical and physical design that allows for hot plug, tool-less installation into HPE ProLiant Gen9 Performance Servers. Flex Slot power supplies are certified for high-efficiency operation and offer multiple power output options, allowing users to "right-size" a power supply for specific server configurations. This flexibility helps to reduce power waste, lower overall energy costs, and avoid "trapped" power capacity in the data center.

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

To review the power requirements for your selected system, please use the HPE Power Advisor Tool located at <u>http://www.hp.com/go/hppoweradvisor</u>.

Power specifications and technical content for all HPE Server power supplies can be found at **<u>http://www.hp.com/go/proliant/powersupply</u>**.

System Fans		Non-redundant	Redundant			
One of the following	1P model	N/A	5 fans			
depending on model		Non-redundant	Redundant			
	2P model	N/A	7 fans			
	NOTE: The second process	or option kit contains two fans.				
	• • • • • • • • • • • • • • • • • • •	an Kit, 766201-B21, is available to mee				
		Qualifications for extended ambient co	nfigurations are detailed at:			
	https://www.hp.com/serve	ers/ashrae.				
Interfaces	Serial	1				
	NOTE: Serial Cable Option Kit: 764646-B21.					
	Video	1 rear (Standard)				
	1 front (Optional)					
	NOTE: Front VGA options available for 8SFF and 4LFF models.					
	See Core Options section of this QuickSpecs for more details.					
	Network RJ-45 (Ethernet)	Embedded 4x1GBE + FlexibleLOM ba	зу			
	NOTE: Both the SFF and LFF chassis have an embedded 4x1GbE NIC and FlexibleLOM bay.					
	See HPE Networking section below for more details.					
	HPE iLO Remote 1 Gb Dedicated Management Network Port					
	SD Connector	1 micro SD Internal				
	NOTE: The Micro SD slot is not a hot-pluggable device. Customers should not attempt to plug an SD card into the SD slot while the server is powered.					
	USB 3.0	5 total: 2 rear, 1 front, 2 internal				

Operating Systems and Virtualization	Microsoft Windows Server
	Red Hat Enterprise Linux (RHEL)
Software Support for ProLiant Servers	SUSE Linux Enterprise Server (SLES)
	<u>Canonical Ubuntu</u>
	<u>Oracle Linux</u>
	<u>CentOS</u>
	VMware
	<u>Citrix XenServer</u>
	<u>Oracle Solaris</u>
	Wind River Linux
	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

	including how to purchase from Hewlett Packard Enterprise, please visit our OS Support Site at: http://www.hp.com/go/ossupport and our driver download page: http://h20566.www2.hpe.com/hpsc/swd/public/readIndex?sp4ts.oid=7252838
Upgradeability	Upgradeable to 2 processors (44 Cores)
	Up to 24 DIMM slots available for higher Memory capacity
	Up to 10 SFF Hard Drive Bays; or 4 LFF Hard Drive Bays
	FlexibleLOM slot for 1GbE or 10GbE or QDR/FDR InfiniBand Networking Options
	Optional 3 slot riser (x16, x16, x8), or 2 slot primary riser (x16, x8)
	3 PCIe 3.0 I/O slots for additional communications and storage expansion
	NOTE: Slot 1 and 2 Riser Shipped Standard. Slot 3 Optional 1 FH, ¾ length and 2 Low Profile slots available or two FH, ¾ length slots.
	Redundant Power Supplies
	Optical Drive supported via Universal Media Bay
	8SFF Model with:
	Option Kit 764632-B21 VGA, SFF DVD-RW USB Kit
	Option Kit 818213-B21 VGA, SFF DVD-ROM USB Kit
	4LFF Model with:
	Option Kit 726536-B21 - HPE 9.5mm SATA DVD-ROM Jb Gen9 Kit
	Option Kit 726537-B21 - HPE 9.5mm SATA DVD-RW Jb Gen9 Kit
	NOTE: Optical cable kit Required for optical drives, 766203-B21.
ndustry Standard	ACPI 2.0b Compliant
Compliance	PCIe 3.0 Compliant
	PXE Support
	WOL Support
	Microsoft® Logo certifications
	USB 3.0 Support
	Energy Star
	ASHRAE A3/A4
	NOTE: The DL360 Gen9 is now one of the first HPE ProLiant Gen9 Servers with Extended Ambient Support up to 45C for data center infrastructures designed for better energy efficiency.
	For additional technical thermal details regarding ambient temperatures, humidity and features support please visit https://www.hp.com/servers/ashrae .
Graphics	Integrated Matrox G200 video standard with 16MB of Video RAM
	• 1280 x 1024 (32 bpp)
	• 1920 x 1200 (16 bpp)
HPE Server	Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability
JEFI/Legacy ROM	and more secured configuration than the legacy ROM while interacting with your server at boot time. H

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

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

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

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

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

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

Form Factor

1U Rack form factor One of the following 8 SFF Drive Bay Version and 10 SFF Drive Bay Version: depending on model 1.7" (4.32cm) Height x 17.11" (43.47cm) Width x 27.5" (69.85cm) Length 4 LFF Drive Bay Version: 1.7" (4.32cm) Height x 17.11" (43.47cm) Width x 29.5" (74.67cm) Length **NOTE:** Dimensions without bezel.

Embedded Management	HPE Integrated Lights-Out (HPE iLO)	Monitor your servers for ongoing management, service alerting, reporting and remote management with HPE iLO. Learn more at <u>http://www.hpe.com/info/ilo</u>.
	UEFI	Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI). Learn more at <u>http://www.hpe.com/servers/uefi</u> .
	RESTful API	RESTful API for iLO 4 is Redfish 1.0 conformance for simplified server management such as configuration and maintenance tasks based on modern industry standards. Learn more at http://www.hpe.com/info/restfulapi .
	Intelligent Provisioning	Hassle free server and OS provisioning for 1 or few servers with Intelligent Provisioning. Learn more at http://www.hpe.com/servers/intelligentprovisioning .

Standard Featur	es	
	Embedded Remote Support	The Hewlett Packard Enterprise embedded remote support, when used with Insight Online direct connect or HPE Insight Remote Support, allows HPE ProLiant servers to transmit hardware events directly to Hewlett Packard Enterprise or a Hewlett Packard Enterprise Authorized Partner for automated phone home support. Learn more at http://www.hpe.com/info/insightonline/explore.
Server utilities	Smart Update	Optimize firmware and driver updates with Smart Update solutions including Smart Update Manager (SUM) and Service Pack for ProLiant (SPP). Learn more 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-Hewlett Packard Enterprise servers. HPE SIM also integrates with Smart Update Manager to provide quick and seamless firmware updates. Learn more at <u>http://www.hpe.com/servers/hpsim</u> .
	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 <u>http://www.hpe.com/servers/proliant/stk</u> or <u>http://www.hpe.com/servers/powershell</u> .
	RESTful Interface Tool	RESTful Interface tool is a scripting tool to provision using RESTful API for iLO 4 to discover and deploy servers at scale. Learn more at http://www.hpe.com/info/resttool .
	HPE iLO Mobile 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: http://www.hpe.com/info/ilo/mobileapp .
	HPE Insight Online	HPE Insight Online, available at no additional cost as part of your Hewlett Packard Enterprise warranty or contractual support agreement with Hewlett Packard Enterprise, is a personalized dashboard for simplified tracking of IT operations and support information from anywhere, anytime. Learn more at http://www.hpe.com/info/insightonline/explore.

SecurityPower-on passwordKeyboard passwordQuickLock, Network Server ModeSerial interface controlAdministrator's passwordiLO 4 (Integrated Lights-Out 4) has 12 customizable user accounts and SSL encryptioniLO 4 can be disabled via a Global SettingIntegrated Lights-Out can be disabled via a Global SettingiLO Advanced supports directory services integrationTPM 2.0UEFI

Warranty

This product is covered by a global limited warranty and supported by Hewlett Packard Enterprise Services and a worldwide network of Hewlett Packard Enterprise Authorized Channel Partners resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HPE Care Pack services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details. **NOTE:** Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have Hewlett Packard Enterprise replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at: http://h17007.www1.hpe.com/us/en/enterprise/servers/warranty/.

Optional Features

	see http://www.hpe.com/info/insightcontrol
HPE Insight Cluster Management Utility (CMU)	HPE Insight Cluster Management Utility is a HyperScale management framework that includes software for the centralized provisioning, management and monitoring of nodes and infrastructure. Learn more at <u>http://www.hpe.com/info/cmu</u> .
for existing or ne power protection are looking for to changes in the ir provision infrastr uniquely position	ower Infrastructure products and services create highly efficient and intelligent solutions ew IT data centers. HPE Rack and Power infrastructure solutions – rack infrastructure, and management, performance optimized data centers (PODs) – are the foundation you be help secure your long-term IT success. These products are designed to help you react to adustry. They deliver efficient, easy-to-use capabilities to manage, monitor, deploy and cucture from entry to enterprise. As an industry leader, Hewlett Packard Enterprise is need to address the key concerns of power, cooling, cable management and system access. PE Rack and Power Infrastructure .
HPE Insight Cluster Management Utility (CMU)	HPE Insight Cluster Management Utility is a Hyperscale management framework that includes software for the centralized provisioning, management and monitoring of nodes and infrastructure. Learn more at <u>http://www.hp.com/go/cmu</u> .
under the HPE C by Hewlett Pack defined with a lo configure HPEC	formance Computing (HPC) interconnect technologies are available for this server Cluster Platform product portfolio. These high-speed interconnects are fully supported and Enterprise when they are part of these configure to order clusters. Solutions can be of of flexibility with the help of configuration tools. Please visit the following URL to Clusters with InfiniBand Interconnects: com/techservers/clusters/ucp/index.html.
challenge, or del than Hewlett Pa storage infrastru	ed to solve a specific data protection, archiving, or storage command and control iver on strategic consolidation, compliance, or continuity initiatives, look no further ckard Enterprise storage software. Our storage software helps you reduce costs, simplify cture, protect vital assets and respond faster to business opportunities. e that gets the job done:
Whether protection busines • Data Au Hewlett retrieva infreque • Storage Hewlett and pro	 Protection and Recovery Software Pryou're a large enterprise or a smaller business, Hewlett Packard Enterprise data ion and recovery software will cost-effectively protect you against disaster and ensure s continuity. Protive and Migration Software Packard Enterprise storage software enables you to comply with data retention and I requirements, improve application performance, and reduce costs by efficiently migrating ently accessed or less valuable data to lower cost storage. Pesource Management Software (SRM) Packard Enterprise storage resource management software reduces operational costs vides the command and control foundation you need to efficiently manage and visualize ysical and virtual environments.
	Cluster Management Utility (CMU) HPE Rack and P for existing or ne power protection are looking for to changes in the ir provision infrastru uniquely position Learn more at <u>H</u> HPE Insight Cluster Management Utility (CMU) NOTE: High Per under the HPE C by Hewlett Pack defined with a lo configure HPEC http://www.hp. Whether you new challenge, or del than Hewlett Pa storage infrastru Storage software • Data Pr Whether protecti busines • Data Au Hewlett retrieva infreque • Storage

• 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

Enable highly available and clustered storage in your HPE ProLiant servers with virtualized storage: Add StoreVirtual VSA to multiple servers, manage it as a single pool of shared storage capacity, and scale it to match your evolving needs. To simplify deployment, Hewlett Packard Enterprise offers StoreVirtual Ready Nodes, pre-defined reference configurations for converged vSphere and Hyper-V virtualization solutions. You also have the option to install free 1TB-capacity StoreVirtual VSA software during server setup within Intelligent Provisioning. HPE ProLiant Gen9 servers include a 3-year limited license for this HPE software-defined storage at no extra cost. More information, instructional videos, and free management software are available at http://www.hpe.com/storage/storevirtual

NOTE: For more information about Storage Software including QuickSpecs, please see: http://www.hp.com/go/storage/software.

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

HPE Support Services	HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to Hewlett Packard Enterprise to help prevent problems and solve issues faster. HPE Support Services enable you to choose the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement to the support for need for your IT and business.
Connect your devices	Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Achieve up to 77% ¹ reduction in down time, near 100% ² diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to Hewlett Packard Enterprise support. 1-IDC 2-HPE CSC reports 2014 - 2015
Recommended Support	Standard: 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 Hewlett Packard Enterprise servers. https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf
	Optimized HPE Proactive Care* with 6 hour call-to-repair commitment, three year Support Service HPE Proactive Care gives customers an enhanced call experience. When your products are connected to 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 highest level of hardware support – Hewlett Packard Enterprise 24x7, six hour hardware call-to-repair. Hewlett Packard Enterprise is the only leading manufacturer who makes this level of coverage available as a standard service offering for your most valuable servers. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.) running on your Hewlett Packard Enterprise servers. https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf
Parts and Materials	Hewlett Packard Enterprise will provide Hewlett Packard Enterprise-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.
	Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.
	The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.
Related Services	HPE Server Hardware Installation Provides for the basic hardware installation of Hewlett Packard Enterprise branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner. https://www.hpe.com/h20195/V2/GetPDF.aspx/5981-9356EN.pdf

Service and Support

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** Keep your IT staff trained making sure they have the right skills to deliver on your business outcomes. Book Services on a class today and learn how to get the most from your technology investment. http://www.hpe.com/ww/learn **HPE Support Center** The HPE Support Center is a personalized online support portal with access to information, tools and experts to support Hewlett Packard Enterprise business products. Submit support cases online, chat with Hewlett Packard Enterprise experts, access support resources or collaborate with peers. Learn more http://www.hpe.com/support/hpesc The Hewlett Packard Enterprise Support Center Mobile App* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime. HPE Insight Remote Support and HPE Support Center are available at no additional cost with a Hewlett Packard Enterprise warranty, HPE Support Service or Hewlett Packard Enterprise contractual support agreement. *HPE Support Center Mobile App is subject to local availability.

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

Pre-configured Models

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

1. Pre-configured models ship with the configurations below. Options can be selected from the Core or Additional options section of this QuickSpecs.

2. Hewlett Packard Enterprise does not allow factory integration of options into pre-configured models. Any additional options purchased will be shipped separately.

3. If you desire a custom configuration please see "Configuration Information - Factory Integrated Models" section of this QuickSpecs.

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

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

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

		Entry Models			Base Models	
[SKU Number]	818207-B21	755260-B21	755261-B21	818208-B21	848736-B21	755262-B21
Model Name	HPE ProLiant DL360 Gen9 E5-2603v4 1P 8GB-R H240ar 8SFF 500W PS Entry SAS Server	HPE ProLiant DL360 Gen9 E5-2603v3 1P 8GB-R B140i 500W PS Entry SATA Server	HPE ProLiant DL360 Gen9 E5-2603v3 1P 8GB-R H240ar 500W PS Entry SAS Server	HPE ProLiant DL360 Gen9 E5-2630v4 1P 16GB-R P440ar 8SFF 500W PS Base SAS Server	HPE ProLiant DL360 Gen9 E5-2640v4 1P 16GB-R P440ar 8SFF 500W PS Base Server	HPE ProLiant DL360 Gen9 E5-2630v3 1P 16GB-R P440ar 500W PS Base SAS Server
Processor	818207-B21	755260-B21	755261-B21	Intel® Xeon® E5-2630v4	Intel® Xeon® E5-2640v4	Intel® Xeon® E5-2630v3
Number of Processors	5		0	ne		
Memory	8GB (1x8GB Registered DIMMs, 2400 MHz) NOTE: DIMMs will operate at 2400MHz with this processor.	DIMMs, 22 NOTE: DIMMs	3 Registered 133 MHz) will operate at this processor.	DIMMs, 2400 MHz) e at NOTE: DIMMs will operate at 2133MHz with this processor.		16GB (1x16GB Registered DIMMs, 2133 MHz) NOTE: DIMMs will operate at 1866MHz with this processor.
Network Controller		HPE En	nbedded 1Gb Ethe	ernet 4-port 331i	Adapter	
Storage Controller	HPE H240ar Smart Host Bus Adapter	HPE Dynamic Smart Array B140i NOTE: UEFI mode only. Additional controller needed for	HPE H240ar Smart Host Bus Adapter	HPE Flexible Smart Array P440ar/2GB		

Pre-configured Models

		legacy support.			
Hard Drive	None ship standard	None ship standard NOTE: embedded B140i defaults to AHCI off the chipset. HPE Dynamic Smart Array Controller needs to be enabled on the SATA only models if needed.		None ship standard	
Internal Storage	8 SFF HDD Bays				
Optical Drive Bay			Optional via Unive	rsal Media Bay	
PCI-Express Slots		2	Standard (1-FH/¾	L, 1-LP) PCle 3.0	
Power Supply		(1) HF	PE 500W Flex Slot P	Platinum Power Supply	
Fans			5 standard hot plug	fans, redundant	
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional), Insight Control (optional), HPE OneView (optional)				
Form Factor	Rack (1U), HPE Easy Install Rails				
Warranty	Server Warran	ty includes 3-Yea	r Parts, 3-Year Labo respon	or, 3-Year Onsite support with next business day nse	

Pre-configured Models

	Performa	nce Models	High Performance Models		
[SKU Number]	818209-B21	755263-B21	851937-B21	795236-B21	
Model Name	HPE ProLiant DL360 Gen9 E5-2650v4 2P 32GB-R P440ar 8SFF 800W RPS Perf SAS Server	HPE ProLiant DL360 Gen9 E5-2650v3 2P 32GB-R P440ar 800W RPS Performance SAS Server	HPE ProLiant DL360 Gen9 E5-2660v4 2P 64GB-R P440ar 8SFF 800W RPS Perf2 SAS Server	HPE ProLiant DL360 Gen9 E5-2670v3 2P 64GB P440ar 8SFF 2x10Gb-T 2x800W OneView Server	
Processor	Intel® Xeon® E5- 2650v4	Intel® Xeon® E5- 2650v3	Intel® Xeon® E5- 2660v4	Intel® Xeon® E5- 2670v3	
Number of Processors		Т	Гwo		
Memory	32GB (2x16GB Registered DIMMs, 2400 MHz) NOTE: With E5-2650 v4 Processor, the actual DIMM speed will operate at 2400 MHz depending on DIMM configuration.	32GB (2x16GB Registered DIMMs, 2133 MHz) NOTE: With E5-2650 v3 Processor, the actual DIMM speed will operate at 2133MHz depending on DIMM configuration.	64GB (4x16GB Registered DIMMs, 2400 MHz) NOTE: With E5-2660 v4 Processor, the actual DIMM speed will operate at 2400 MHz depending on DIMM configuration.	64GB (4x16GB Registered DIMMs, 2133 MHz) NOTE: With E5-2670 v3 Processor, the actual DIMM speed will operate at 2133 MHz depending on DIMM configuration.	
Network Controller	HPE Embedded 4x1Gb, plus 2x10Gb-T Flexible LOM	HPE Embedded 4x1Gb, plus 2x10Gb FLR-T FlexFabric Flexible LOM	HPE Embedded 4x1Gb, plus 2x10Gb SFP+ Flexible LOM	HPE Embedded 4x1Gb, plus 2x10Gb FLR-T FlexFabric Flexible LOM	
Storage Controller	HPE Flexible Smar	t Array P440ar/2GB	HPE Smart Array P440ar/2G Controller	HPE Flexible Smart Array P440ar/2GB	
Hard Drive		None sh	ip standard		
Internal Storage		8 SFF F	HDD Bays		
Optical Drive Bay		Optional via Ur	niversal Media Bay		
PCI-Express Slots	2 Standard (1-FH/	^{/3} 4 L, 1-LP) PCle 3.0	3 Standard (1-FH/	(HL, 2-LP) PCIe 3.0	
Power Supply	(2) HPE 8	00W Flex Slot Platinum P	ower Supply	(1) HPE 800W Flex Slot Platinum Power Supply	
Fans		7 standard hot p	lug fans, redundant		
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (standard), HPE OneView (optional) Provisioning (standard), iLO Advanced (standard), iLO Advanced (standard) HPE OneView (Standard)				
Energy Star	Meets Energy Star requirements				
Form Factor	Rack (1U), HPE Easy Install Rails				
Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response				

Smart Buy Models

	E5-2600v4 Series Smart Buys				
[SKU Number]	850366-S01	861540-S01	850367-S01	873831-S01	
Model Name	HPE ProLiant DL360 Gen9 E5-2680v4 2P SFF US Svr/S-Buy	HPE ProLiant DL360 Gen9 E5-2697v4 SFF US Svr/S-Buy	HPE ProLiant DL360 Gen9 E5-2690v4 SFF US Svr/S-Buy	HPE ProLiant DL360 Gen9 E5-2609v4 8SFF Svr/S-B	
Processor	Intel® Xeon® E5- 2680v4	Intel [®] Xeon [®] E5-2697v4	Intel [®] Xeon [®] E5- 2690v4	Intel® Xeon® E5- 2609v4	
Number of Processors	Two		One		
Memory	64GB (4x16GB Registered DIMMs, 2400 MHz) NOTE: DIMMs will operate at 2400MHz with this processor.	32GB (2x16GB Register NOTE: DIMMs will opera proce	8GB (1x8GB) Registered DIMMs, 2400MHz) NOTE: DIMMs will operate at 1866MHz with this processor.		
Network Controller	HPE Embedded 1Gb Ethernet 4-port 331i Adapter + HPE 533FLR-T 10GbE 2- port	HPE Embedded 1Gb Ethernet 4-port 331i Adapter	HPE Embedded 1Gb Ethernet 4-port 331i Adapter + HPE 533FLR-T 10GbE 2- port	HPE Embedded 1Gb Ethernet 4-port 331i Adapter	
Storage Controller	HPE Flexible Smart Array P440ar/2GB + Smart Storage Battery Smart A				
Hard Drive		None ship	standard		
Internal Storage		8 SFF SAT	A/SAS Bays		
Optical Drive Bay	None incl	luded, (Optional: DVD-ROM	1, DVD-RW via Universal M	1edia Bay)	
PCI-Express Slots	Three (3) Standard (1- FH/HL, 2-LP) PCIe 3.0	Two (2) S	Standard (1-FH/¾ L, 1-LP)) PCle 3.0	
Power Supply	Two (2) HPE 800W Flex Slot Platinum Power Supplies	Two (2) HPE 550W Flex Slot Platinum Power Supplies	Two (2) HPE 800W Flex Slot Platinum Power Supplies	One (1) HPE 550W Flex Slot Platinum Power Supply	
Fans	Seven (7) Standard hot plug fans, redundant	Five (5) Standard hot plug fans, redundant			
Management	Standard: iLO Management Optional: iLO Advanced, Insight Control, HPE OneView				
Form Factor	Rack (1U), HPE Easy Install Rails				
Warranty	3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response				

	E5-2600v4 Series Smart Buys					
[SKU Number]	850365-S01 867446-S01 867447-S01 849455-S					
Model Name	HPE ProLiant DL360 Gen9 E5-2643v4 SFF US Svr/S-Buy	HPE ProLiant DL360 Gen9 E5-2640v4 SFF US Svr/S-Buy	HPE ProLiant DL360 Gen9 E5-2620v4 SFF US Svr/S-Buy	HPE ProLiant DL360 Gen9 E5-2620v4 SAS US Svr/S-Buy		
Processor	Intel® Xeon® E5- 2643v4	Intel® Xeon® E5-2640v4	/4 Intel® Xeon® E5-2620v4			
Number of Processors	One					

Smart Buy Models

Memory	32GB (2x16GB Registered DIMMs, 2400 MHz) NOTE: DIMMs will operate at 2400MHz with this processor.	16GB (1x16GB Registered DIMMs, 2400 MHz) NOTE: DIMMs will operate at 2133MHz with this processor.	16GB (2x8GB Registered DIMMs, 2400 MHz) NOTE: DIMMs will operate at 2133MHz with this processor.		
Network Controller		HPE Embedded 1Gb Ethernet 4-port 331i Adapter			
Storage Controller	HPE Flexible Smart Array P440ar/2GB + Smart Storage Battery HPE H240ar HPE Flexible Smart Array P440ar/2GB + Smart Storage Battery HPE H240ar				
Hard Drive		None ship standard			
Internal Storage		8 SFF SATA/SAS Bays			
Optical Drive Bay	None included, (Optional: DVD-ROM, DVD-RW via Universal Media Bay)				
PCI-Express Slots		Two (2) Standard (1-FH/¾ L, 1-LP) PCIe 3.0			
Power Supply	Two (2) HPE 550W(1) HPE 500W Flex Slot Platinum Power SuppliesFlex Slot Platinum Power Supplies				
Fans	Five (5) Standard hot plug fans, redundant				
Management	Standard: iLO Management Engine Optional: iLO Advanced, Insight Control, HPE OneView				
Form Factor	Rack (1U), HPE Easy Install Rails				
Warranty	3-Year Parts, 3-	-Year Labor, 3-Year Onsite support with next busines	ss day response		

	E5-2600v3 Series Smart Buys			
[SKU Number]	800082-S01	780022-S01	780019-S01	
Model Name	HP ProLiant DL360 Gen9 E5- 2697v3 2P SFF US Svr/S-Buy	HP ProLiant DL360 Gen9 E5-2670v3 2P SFF US Svr/S- Buy	HP ProLiant DL360 Gen9 E5-2640v3 2P SFF US Svr/S- Buy	
Processor	Intel [®] Xeon [®] E5-2697v3	Intel® Xeon® E5-2670v3	Intel [®] Xeon [®] E5-2640v3	
Number of Processors		Тwo	·	
Memory	64GB (4x16GB Registered NOTE: The DIMM will operate at 2	16GB (2x8GB Registered DIMMs, 2133 MHz) NOTE: The DIMM will operate at 1866 MHz with this processor.		
Network Controller	HPE Embed	dded 1Gb Ethernet 4-port 331i A	Adapter	
Storage Controller	HPE Flexible Sma	rt Array P440ar/2GB + Smart Sto	orage Battery	
Hard Drive		None ship standard		
Internal Storage		8 SATA/SAS SFF HDD Bays		
Optical Drive Bay	None included, (Optio	nal: DVD-ROM, DVD-RW via Uni [,]	versal Media Bay)	
PCI-Express Slots	Two (2) Standard (1-FH/¾ L, 1-LP) PCIe 3.0	Three (3) Standard (1-FH/HL, 2-LP) PCIe 3.0		
Power Supply	Two (2) HPE 800W Flex Slot	Two (2) HPE 800W Flex Slot Platinum Power Supplies Two (2) HPE 500W Flex Slot Platinum Power Supplies		
Fans	Seven (7	7) Standard hot plug fans, redund	lant	
Management	Standard: iLO Management Engine	Standard: iLO Management Engine Optional: iLO Advanced, Insight Control, HPE OneView		

Smart Buy Models

	Optional: iLO Advanced, Insight Control, HPE OneView				
Form Factor	Rack (1U), HPE Easy Install Rails				
Warranty	3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response				

	E5-2600v3 Series Smart Buys				
[SKU Number]	780021-S01	800081-S01	800080-S01	780020-S01	
Model Name	HP ProLiant DL360 Gen9 E5-2690v3 SFF US Svr/S- Buy	HP ProLiant DL360 Gen9 E5-2667v3 SFF US Svr/S-Buy	HP ProLiant DL360 Gen9 E5-2643v3 SFF US Svr/S-Buy	HP ProLiant DL360 Gen9 E5-2660v3 SAS US Svr/S-Buy	
Processor	Intel® Xeon® E5-2690v3	Intel® Xeon® E5- 2667v3	Intel® Xeon® E5- 2643v3	Intel® Xeon® E5- 2660v3	
Number of Processors		One			
Memory	32GB (2x16G NOTE: The DIMM will	16GB (1x16GB Registered DIMMs, 2133 MHz) NOTE: The DIMM will operate at 2133MHz with this processor.			
Network Controller	HP	E Embedded 1Gb Etherr	net 4-port 331i Adapter		
Storage Controller	HPE Flex	ble Smart Array P440ar,	/2GB + Smart Storage Ba	ttery	
Hard Drive		None ship s	tandard		
Internal Storage		8 SATA/SAS SF	F HDD Bays		
Optical Drive Bay	None included	d, (Optional: DVD-ROM, [DVD-RW via Universal M	edia Bay)	
PCI-Express Slots		Two (2) Standard (1-FH	/¾ L, 1-LP) PCIe 3.0		
Power Supply	Two (2) HPE 800W Flex Slot Platinum Power Supplies	, ,	ex Slot Platinum Power plies	Two (2) HPE 800W Flex Slot Platinum Power Supplies	
Fans	Five (5) Standard hot plug fans, redundant				
Management	Standard: iLO Management Engine Optional: iLO Advanced, Insight Control, HPE OneView				
Form Factor	Rack (1U), HPE Easy Install Rails				
Warranty	3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response				

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

1. Factory Integrated Models must start with a CTO Server.

2. FIO indicates that this option is only available as a factory installable option.

3. All Factory Integrated Models will be populated with sufficient hard drive blanks based on the number of initial hard drives ordered with the server.

4. Some options may not be integrated at the factory. Contact your local sales representative for additional information.

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

CTO Server	HPE ProLiant DL360 Gen9 4LFF Configure-to-order Server	-order HPE ProLiant DL360 Gen9 8SFF Configure-to-orde Server	
SKU Number	755259-B21	755258-B21	
Processor	2 (optional) x HPE	Smart Socket Guide	
DIMM Slots	24 DIMM slots for RDIMM	1, LRDIMM DDR4 Memory	
Storage Controller	HPE Dynamic S	mart Array B140i	
PCle	2 PCIe 3.0 Slots: Slot 1, FH / ¾ Length; Slot 2, Low Profile		
Drive Cage	4LFF Hot Plug	8SFF Hot Plug	
Network Controller	HPE Embedded 1Gb Eth	ernet 4-port 331i Adapter	
Fans	5 standard hot plug fans, redundant		
Management	iLO Management (standard), Intelligent Provisioning (standard)		
USB	1 front, 2 internal, 2 rear		
Ears	HPE Quick Release Ears		

NOTE: 4LFF CTO Server includes 1 SATA Cable, option kit: 766213-B21, which attaches to the B140i controller. **NOTE:** 8SFF CTO Server includes two 4 x Mini-SAS Cables, option kit: 766209-B21, which attaches to an optional HPE Smart HBA H240ar or HPE Smart Array P440ar controller.

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

HPE Processors E5-2600v4 series Processors

HPE DL360 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) FIO Processor Kit 818164-L21 HPE DL360 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W) FIO Processor Kit 818166-L21 HPE DL360 Gen9 Intel® Xeon® E5-2603v4 (1.7GHz/6-core/15MB/85W) FIO Processor Kit 818168-L21 HPE DL360 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) FIO Processor Kit 818170-L21 HPE DL360 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) FIO Processor Kit 818172-L21 HPE DL360 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-core/10MB/85W) FIO Processor Kit 818190-L21 HPE DL360 Gen9 Intel® Xeon® E5-2637v4 (3.5GHz/4-core/15MB/135W) FIO Processor Kit 818192-L21 HPE DL360 Gen9 Intel® Xeon® E5-2643v4 (3.4GHz/6-core/20MB/135W) FIO Processor Kit 818194-L21 HPE DL360 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) FIO Processor Kit 818176-L21 HPE DL360 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) FIO Processor Kit 818178-L21 HPE DL360 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W) FIO Processor Kit 818180-L21 HPE DL360 Gen9 Intel® Xeon® E5-2697Av4 (2.6GHz/16-core/40MB/145W) FIO Processor 818182-L21 Kit

818206-L21

818174-L21

Configuration Information - Factory Integrated Models

HPE DL360 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) FIO Processor Kit 818184-L21 HPE DL360 Gen9 Intel® Xeon® E5-2690v4 (2.6GHz/14-core/35MB/135W) FIO Processor Kit 818186-L21 HPE DL360 Gen9 Intel® Xeon® E5-2687Wv4 (3.0GHz/12-core/30MB/160W) FIO Processor 818188-L21 Kit HPE DL360 Gen9 Intel® Xeon® E5-2667v4 (3.2GHz/8-core/25MB/135W) FIO Processor Kit 818196-L21 HPE DL360 Gen9 Intel® Xeon® E5-2683v4 (2.1GHz/16-core/40MB/120W) FIO Processor Kit 818198-L21 HPE DL360 Gen9 Intel® Xeon® E5-2695v4 (2.1GHz/18-core/45MB/120W) FIO Processor Kit 818200-L21 HPE DL360 Gen9 Intel® Xeon® E5-2697v4 (2.3GHz/18-core/45MB/145W) FIO Processor Kit 818202-121 HPE DL360 Gen9 Intel® Xeon® E5-2698v4 (2.2GHz/20-core/50MB/135W) FIO Processor Kit 818204-L21

HPE DL360 Gen9 Intel® Xeon® E5-2699v4 (2.2GHz/22-core/55MB/145W) FIO Processor Kit

HPE DL360 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) FIO Processor Kit

E5-2600v3 series Processors

HP DL360 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15/MB/85W) FIO Processor Kit 755374-L21 HP DL360 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) FIO Processor Kit 755378-L21 HP DL360 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) FIO Processor Kit 755376-L21 HP DL360 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) FIO Processor Kit 755382-L21 HP DL360 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) FIO Processor Kit 755384-L21 HP DL360 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit 755836-L21 HP DL360 Gen9 Intel® Xeon® E5-2637v3 (3.5GHz/4-core/15MB/135W) FIO Processor Kit 755404-L21 HP DL360 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) FIO Processor Kit 764097-L21 HP DL360 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) FIO Processor Kit 755388-L21 HP DL360 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO Processor Kit 755390-L21 HP DL360 Gen9 Intel® Xeon® E5-2670v3 (2.3GHz/12-core/30MB/120W) FIO Processor Kit 755392-L21 HP DL360 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit 755394-L21 HP DL360 Gen9 Intel® Xeon® E5-2690v3 (2.6GHz/12-core/30MB/135W) FIO Processor Kit 755396-L21 HP DL360 Gen9 Intel® Xeon® E5-2683v3 (2GHz/14-core/35MB/120W) FIO Processor Kit 755398-L21 HP DL360 Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W) FIO Processor Kit 755400-L21 HP DL360 Gen9 Intel® Xeon® E5-2697v3 (2.6GHz/14-core/35MB/145W) FIO Processor Kit 755402-L21 HP DL360 Gen9 Intel® Xeon® E5-2643v3 (3.4GHz/6-core/20MB/135W) FIO Processor Kit 755406-L21 HP DL360 Gen9 Intel® Xeon® E5-2667v3 (3.2GHz/8-core/20MB/135W) FIO Processor Kit 755408-L21 HP DL360 Gen9 Intel® Xeon® E5-2687Wv3 (3.1GHz/10-core/25MB/160W) FIO Processor 755410-L21 Kit HP DL360 Gen9 Intel® Xeon® E5-2698v3 (2.3GHz/16-core/40MB/135W) FIO Processor Kit 764099-L21

 HP DL360 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) FIO Processor Kit
 764101-L21

 HP DL360 Gen9 Intel® Xeon® E5-2699v3 (2.3GHz/18-core/45MB/145W) FIO Processor Kit
 780003-L21

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

NOTE: Up to two processors supported. Mixing different processor models is not supported. **NOTE:** DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on

the quantity and type of DIMMs installed. **NOTE:** When v4 Processor is selected, then only PC4-2400T Memory Kit can be selected.

NOTE: When v3 Processor is selected, then only PC4-2133P Memory Kit can be selected.

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

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

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

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

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

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

Registered DIMMs (RDIMMs) for E5-2600v4 Series

HP 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805347-B21
HP 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805349-B21
HP 16GB (1x16GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	836220-B21
HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805351-B21
Registered DIMMs (RDIMMs) for E5-2600v3 Series	
HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726717-B21
HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726718-B21
HP 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	759934-B21
HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726719-B21
HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	728629-B21
Load Reduced DIMMs (RDIMMs) for E5-2600v4 Series	
HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit	805353-B21
HP 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit	805358-B21
HPE 128GB (1x128GB) Octal Rank x4 DDR4-2400 CAS-17-17-17 Load Registered Memory	809208-B21
Kit	

Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series

 HP 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15 Load Reduced Memory Kit
 726724-B21

 HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15 Load Reduced Memory Kit
 726722-B21

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

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

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: Support for HPE Power Discovery Services is included with the 1400W Flex Slot option. Power specifications and technical content for all HPE Server power supplies can be found at: http://www.hp.com/go/proliant/powersupply.

NOTE: Maximum of two (2) Flex Slot Power Supplies per platform.

HPE Flex Slot Hot-Plug Power Supplies

HP 500W Flex Slot Platinum Hot Plug Power Supply Kit **NOTE:** Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.

HP 800W Flex Slot Platinum Hot Plug Power Supply Kit

720478-B21

NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94% and include a standard C-14 power inlet connector.	
HP 800W Flex Slot Titanium Hot Plug Power Supply Kit	720482-B21
NOTE: Flex Slot Titanium power supplies support power efficiency of up to 96% and include a standard C-14 power inlet connector.	
HP 800W Flex Slot Universal Hot Plug Power Supply Kit	720484-B21
NOTE: Flex Slot universal power supplies support power efficiency of up to 94% and support both 277VAC/380VDC power inputs.	
HP 800W Flex Slot -48VDC Hot Plug Power Supply Kit	720480-B21
NOTE: Flex Slot -48VDC power supplies support power efficiency of up to 94%	
HP 1400W Flex Slot Platinum Plus Hot Plug Power Supply Kit	720620-B21
NOTE: Flex Slot Platinum Plus power supplies support power efficiency of up to 94% and include a C-14 power inlet connector that can support HPE Power Discovery Services (blue connector).	
HP 750W Flex Slot Hot Plug Battery Backup Module	738024-B21
NOTE: Flex Slot Battery Backup provides 750W output and 500W in paralleled configuration.	
NOTE: Only one Battery Backup module per server, and a Flex Slot Power Supply needed in parallel.	

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

HPE Storage NOTE: The embedded B140i controller will be used as the primary controller if no controller is selected Controllers from the list below. Embedded SATA controller can support up to 8 SATA hard drives. Cable kit may be required. **HPE Smart Array Controllers** 749974-B21 HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller **NOTE:** Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot. 761872-B21 HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller **NOTE:** Provides support for up to 8 internal SAS/SATA drives, consumes one PCIe slot. **NOTE:** Includes the HP Smart Storage Battery **HPE Smart Host Bus Adapters** HP H240ar 12Gb 2-ports Int FIO Smart Host Bus Adapter 749976-B21 NOTE: Provides support for up to 8 internal SAS/SATA drives without using a PCIe slot. HP H240 12Gb 2-ports Int FIO Smart Host Bus Adapter 761873-B21 **HPE Cable Options** 766211-B21 HP DL360 Gen9 LFF Smart Array P440ar/H240ar SAS Cable NOTE: Required with P440ar/2GB (749974-B21) or H240ar (749976-B21) if using the HP ProLiant DL360 Gen9 4LFF CTO Server (755259-B21) 766207-B21 HP DL360 Gen9 SFF Embedded SATA Cable NOTE: Required with the HP ProLiant DL360 Gen9 8SFF CTO Server (755258-B21) if using the embedded B140i as primary controller 775927-B21 HP DL360 Gen9 SFF Smart Array P440/H240 SAS Cable NOTE: Required with P440/4GB (761872-B21) or H240 (761873-B21) if using the HP ProLiant DL360 Gen9 8SFF CTO Server (755258-B21) 775929-B21 HP DL360 Gen9 LFF Smart Array P440/H240 SAS Cable Required with P440/4GB (761872-B21) or H240 (761873-B21) if using the HP ProLiant DL360 Gen9 4LFF CTO Server (755259-B21)

BIOS Mode	HP Legacy FIO Mode Setting NOTE: If selected, then B140i will not be supported and can no longer be a primary controller therefore, SAS internal controller must be selected to be the primary controller	758959-B22
Controller State	HP FIO Enable B140i Setting NOTE: Must be selected when B140i is used as the primary controller and RAID is desired. HP Mfg FIO Enable HBA Mode Setting NOTE: When selected if H240ar/H240 are used as the primary controller then RAID is not allowed.	784308-B21 792962-B21
HPE Insight Software	HP Insight Control including 1yr 24x7 support ProLiant ML/DL/BL-bundle Single Server FIO License HP Insight Control including 1yr 24x7 support ProLiant ML/DL/BL-bundle Single Server FIO	C6N36A C6N36ABE
HPE Converged Infrastructure Software	 HPE OneView Advanced (with HPE iLO Advanced) HPE OneView for ProLiant DL Server incl 3yr 24x7 Supp FIO Bundle Physical 1 Svr Lic HPE OneView Advanced (without HPE iLO Advanced) HP OneView w/o iLO including 3yr 24x7 Support FIO 1 Server LTU 	E5Y43A P8B31A
Step 4: Choos	e Additional Options for Factory Integration from Core and Additional	Options

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

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

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 Hewlett Packard Enterprise approved configurator. Contact your local sales representative for additional information.

HPE Unique	HP DL360 Gen9 2SFF SAS/SATA Universal Media Bay Kit	764630-B21
Options	NOTE: Required when upgrading from an 8SFF config to a 10SFF config.	
	This option kit is not supported on the 4LFF model.	
	This option kit cannot be used with the DVD-ROM or DVD-RW Universal Media Bay	
	option kits.	
	NOTE: This kit contains a cable to attach the 2 drives to the internal B140i SATA	
	controller.	
	For SAS, an alternate storage controller and its associated cable kit are required.	
	HP DL360 Gen9 SFF DVD-RW/USB Universal Media Bay Kit	764632-B21
	NOTE: DVD-RW, USB 2.0 and VGA included.	
	This option kit cannot be used with the 2 SFF SAS/SATA option kit (764630-B21).	
	HP DL360 Gen9 SFF DVD/USB Universal Media Bay Kit	818213-B21
	NOTE: DVD ROM, USB 2.0 and VGA included.	
	This option kit cannot be used with the 2 SFF SAS/SATA option kit (764630-B21).	
	HP DL360 Gen9 SFF USB/VGA Universal Media Bay Kit	764634-B21
	NOTE: Adds front VGA and USB 2.0 ports to SFF chassis.	
	This option kit cannot be used with the 2 SFF SAS/SATA option kit (764630-B21).	
	HP DL360 Gen9 LFF USB/VGA Kit	764638-B21
	NOTE: Adds front VGA and USB 2.0 ports to LFF chassis.	
	This option kit cannot be used with the 2 SFF SAS/SATA Option Kit (764630-B21).	
	HP DL360 Gen9 High Performance Heat Sink Kit	795235-B21
	NOTE: These are included in some higher Watt processors (see processor section),	
	but may also be added to lower power processors to reduce fan power consumption.	
	HP DL360 Gen9 Rear Serial Port and Enablement Kit	764646-B21
	HP DL360 Gen9 Location Discovery Services Ear Kit	764757-B21
	NOTE: Requires ProLiant Location Discovery Services Infrastructure within server racks.	
	HP DL360 Gen9 SFF Systems Insight Display Kit	764636-B21
	NOTE: Adds a System Insight Display for improved diagnosis capabilities on an 8FF or 10SFF model.	
	HP DL360 Gen9 LFF Systems Insight Display Kit	764640-B21
	NOTE: Adds a System Insight Display for improved diagnosis capabilities on a 4LFF model.	
	HP DL360 Gen9 NVMe 2 Solid State Drive Express Bay Enablement Kit	764628-B21
	NOTE: This option provides support for up to 2 NVMe SFF drives.	
	This option cannot be used with the Universal Media Bay Kit.	
	NOTE: The HPE DL360 Gen9 High Performance Fan Kit (766201-B21) will be	
	required with this option.	
	NOTE: The PCIe card in this enablement kit can only be populated in slot1 of primary	
	riser or in slot3 of secondary optional FH riser.	
	HP DL360 Gen9 6 NVMe + 4 SAS/SATA Express Bay Enablement Kit	817676-B21
	NOTE: This option kit provides support for up to 6 NVMe drives (drives 5-10).	

NOTE: The PCIe card in this enablement kit can only be populated in slot1 of primary riser.

HPE Processors	E5-2600v4 series Processors	
	HPE DL360 Gen9 Intel® Xeon® E5-2630Lv4 (1.8GHz/10-core/25MB/55W) Processor Kit	818164-B21
	HPE DL360 Gen9 Intel® Xeon® E5-2650Lv4 (1.7GHz/14-core/35MB/65W) Processor Kit	818166-B21
	HPE DL360 Gen9 Intel [®] Xeon [®] E5-2603v4 (1.7GHz/6-core/15MB/85W) Processor Kit NOTE: This processor does not support Hyper-Threading.	818168-B21
	HPE DL360 Gen9 Intel® Xeon® E5-2609v4 (1.7GHz/8-core/20MB/85W) Processor Kit	818170-B21
	NOTE: This processor does not support Hyper-Threading. HPE DL360 Gen9 Intel® Xeon® E5-2620v4 (2.1GHz/8-core/20MB/85W) Processor Kit	818172-B21
	HPE DL360 Gen9 Intel® Xeon® E5-2623v4 (2.6GHz/4-core/10MB/85W) Processor Kit HPE DL360 Gen9 Intel® Xeon® E5-2637v4 (3.5GHz/4-core/15MB/135W) Processor Kit	818190-B21 818192-B21
	HPE DL360 Gen9 Intel® Xeon® E5-2643v4 (3.4GHz/6-core/20MB/135W) Processor Kit	818194-B21
	HPE DL360 Gen9 Intel® Xeon® E5-2640v4 (2.4GHz/10-core/25MB/90W) Processor Kit	818176-B21
	HPE DL360 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) Processor Kit	818178-B21
	HPE DL360 Gen9 Intel® Xeon® E5-2650v4 (2.2GHz/12-core/30MB/105W) FIO Processor Kit	818178-L21
	HPE DL360 Gen9 Intel® Xeon® E5-2660v4 (2.0GHz/14-core/35MB/105W) Processor Kit	818180-B21
	HPE DL360 Gen9 Intel® Xeon® E5-2697Av4 (2.6GHz/16-core/40MB/145W) Processor Kit	818182-B21
	HPE DL360 Gen9 Intel® Xeon® E5-2680v4 (2.4GHz/14-core/35MB/120W) Processor Kit	818184-B21
	HPE DL360 Gen9 Intel® Xeon® E5-2690v4 (2.6GHz/14-core/35MB/135W) Processor Kit	818186-B21
	HPE DL360 Gen9 Intel® Xeon® E5-2687Wv4 (3.0GHz/12-core/30MB/160W) Processor Kit	818188-B21
	HPE DL360 Gen9 Intel® Xeon® E5-2667v4 (3.2GHz/8-core/25MB/135W) Processor Kit	818196-B21
	HPE DL360 Gen9 Intel® Xeon® E5-2683v4 (2.1GHz/16-core/40MB/120W) Processor Kit	818198-B21
	HPE DL360 Gen9 Intel® Xeon® E5-2695v4 (2.1GHz/18-core/45MB/120W) Processor Kit	818200-B21
	HPE DL360 Gen9 Intel® Xeon® E5-2697v4 (2.3GHz/18-core/45MB/145W) Processor Kit	818202-B21
	HPE DL360 Gen9 Intel® Xeon® E5-2698v4 (2.2GHz/20-core/50MB/135W) Processor Kit	818204-B21
	HPE DL360 Gen9 Intel® Xeon® E5-2699v4 (2.2GHz/22-core/55MB/145W) Processor Kit	818206-B21
	HPE DL360 Gen9 Intel® Xeon® E5-2630v4 (2.2GHz/10-core/25MB/85W) Processor Kit	818174-B21

HPE DL360 Gen9 Intel® Xeon® E5-2699Av4 (3.6GHz/22-core/55MB/145W) Processor Kit	871580-B21
E5-2600v3 series Processors	
HPE DL360 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit	755374-B21
NOTE: This processor does not support Hyper-Threading.	
HPE DL360 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit	755378-B21
NOTE: This processor does not support Hyper-Threading.	
HPE DL360 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) Processor Kit	755376-B21
HPE DL360 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit	755382-B21
HPE DL360 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit	755384-B21
HPE DL360 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit	755386-B21
HPE DL360 Gen9 Intel® Xeon® E5-2637v3 (3.5GHz/4-core/15MB/135W) Processor Kit	755404-B21
HPE DL360 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit	764097-B21
HPE DL360 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) Processor Kit	755388-B21
HPE DL360 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor Kit	755390-B21
HPE DL360 Gen9 Intel® Xeon® E5-2670v3 (2.3GHz/12-core/30MB/120W) Processor Kit	755392-B21
HPE DL360 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) Processor Kit	755394-B21
HPE DL360 Gen9 Intel® Xeon® E5-2690v3 (2.6GHz/12-core/30MB/135W) Processor Kit	755396-B21
HPE DL360 Gen9 Intel® Xeon® E5-2683v3 (2GHz/14-core/35MB/120W) Processor Kit	755398-B21
HPE DL360 Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W) Processor Kit	755400-B21
HPE DL360 Gen9 Intel® Xeon® E5-2697v3 (2.6GHz/14-core/35MB/145W) Processor Kit	755402-B21
HPE DL360 Gen9 Intel® Xeon® E5-2643v3 (3.4GHz/6-core/20MB/135W) Processor Kit	755406-B21
HPE DL360 Gen9 Intel® Xeon® E5-2667v3 (3.2GHz/8-core/20MB/135W) Processor Kit	755408-B21
HPE DL360 Gen9 Intel® Xeon® E5-2687Wv3 (3.1GHz/10-core/25MB/160W) Processor Kit	755410-B21
HPE DL360 Gen9 Intel® Xeon® E5-2698v3 (2.3GHz/16-core/40MB/135W) Processor Kit	764099-B21
HPE DL360 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) Processor Kit	764101-B21
HPE DL360 Gen9 Intel® Xeon® E5-2699v3 (2.3GHz/18-core/45MB/145W) Processor Kit	780003-B21
NOTE: Mixing of E5-2600 v3 and E5-2600 v4 processors is not supported. NOTE: All processors support Hyper-Threading <i>except</i> E5-2609 v4/v3 and E5-2603 v4/ NOTE: Processors consuming up to 120w ship with standard heat sink. NOTE: Processors consuming over 120w ships with a High Performance heat sink as star NOTE: A High Performance heat sink can be added to help reduce power consumption (7	ndard.

HPE Memory	Registered DIMMs (RDIMMs) for E5-2600v4 Series	
	HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805351-B21
	HPE 16GB (1x16GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	836220-B21
	HP 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805349-B21
	HP 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory Kit	805347-B21
	Load Reduced DIMMs (LRDIMMs) for E5-2600v4 Series	
	HPE 128GB (1x128GB) Octal Rank x4 DDR4-2400 CAS-20-18-18 Load Reduced Memory Kit	809208-B21
	NOTE: 128GB DIMMs cannot be mixed with any other size DIMMs.	
	HPE 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit	805358-B21
	HPE 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit	805353-B21
	Registered DIMMs (RDIMMs) for E5-2600v3 Series	
	HP 32GB (1x32GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	728629-B21
	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726719-B21
	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726718-B21
	HP 8GB (1x8GB) Dual Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	759934-B21
	HP 4GB (1x4GB) Single Rank x8 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726717-B21
	Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series	
	HP 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726724-B21
	HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726722-B21
	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726720-B21
	NOTE: Memory speeds will vary by processor model, please see memory section of Quicl	«Specs.
	HPE Persistent Memory (NVDIMM)	
	NOTE: The following memory is supported by the E5-2600v4 series Processor only.	
	HPE 8GB NVDIMM Single Rank x4 DDR4-2133 Module	782692-B21
	NOTE: A maximum of 16 NVDIMMs can be supported. NVDIMMs cannot be used with LI NOTE: NVDIMMs only supported on factory configured servers with E5-2600 v4 process supported on servers upgraded from E5-2600 v3 to E5-2600 v4 processors.	
HPE Optical Drives	HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive	726536-B21
	NOTE: Supported only with the 4LFF Models & requires cable kit 766203-B21.	

NOTE: Supported only with the 4LFF Models & requires cable kit 766203-B21.

HP DL360 Gen9 LFF Optical Cable

HP DL360 Gen9 SFF DVD/USB Universal Media Bay Kit **NOTE:** Front DVD ROM, USB 2.0, and VGA and optical cable. HP DL360 Gen9 SFF DVD-RW/USB Universal Media Bay Kit

HP Mobile USB Non Leaded System DVD RW Drive

NOTE: Front DVD-RW, USB 2.0 and VGA, and optical cable.

766203-B21 818213-B21

764632-B21

701498-B21

NOTE: This is only supported on USB 3.0 ports.

HPE Drives	12G SAS 10K Hot Plug SFF (2.5-inch) SC Enterprise Hard Drives - 3yr Warranty	
	HP 1.2TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	781518-B21
	HP 900GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	785069-B21
	HP 600GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	781516-B21
	HP 300GB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	785067-B21
	12G SAS 10K Hot Plug SFF (2.5-inch) SC Hard Drives - 3yr Warranty	
	HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872479-B21
	HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872477-B21
	HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872475-B21
	12G SAS 15K Hot Plug SFF (2.5-inch) SC Hard Drives - 3yr Warranty	
	HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759212-B21
	HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759210-B21
	HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759208-B21
	12G SAS 15K Hot Plug SFF (2.5-inch) SC Hard Drives - 3yr Warranty	
	HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty DS Digitally Signed Firmware HDD	870759-B21
	HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870757-B21
	HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870753-B21
	12G SAS 7.2K Hot Plug SFF (2.5-inch) SC Midline Hard Drives - 1yr Warranty	
	HPE 1TB 12G SAS 7.2K rpm SFF (2.5in) SC Midline 1yr Warranty Hard Drive	832514-B21
	12G SAS 7.2K Hot Plug SFF (2.5-inch) SC 512e Hard Drives - 1yr Warranty	
	HP 2TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765466-B21
	HP 1TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765464-B21
	12G SAS 10K Hot Plug SFF (2.5-inch) SC 512e Hard Drives - 1yr Warranty	
	HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	872481-B21
	HP 1.8TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard Drive	791034-B21
	12G SAS 15K Hot Plug SFF (2.5-inch) SC 512e Hard Drives - 1yr Warranty	
	HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	870763-B21
	HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	870765-B21
	HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC 512e Enterprise 3yr Warranty Hard Drive	748387-B21
	12G SAS Hot Plug LFF (3.5-inch) SC 512e Hard Drives- 3yr Warranty	
	HPE 10TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	857644-B21
	HPE 8TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	861590-B21
	HPE 8TB 12G SAS 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	819201-B21

HP 8TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive HP 6TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive HPE 6TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	793703-B21 793699-B21 765259-B21 861754-B21
HPE 4TB SAS 12G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	861756-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793669-B21
HP 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765257-B21
12G SAS Hot Plug LFF (3.5-inch) SC Enterprise Hard Drives - 3yr Warranty	
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
12G SAS Hot Plug LFF (3.5-inch) SC Midline Hard Drives - 1yr Warranty	
HPE 6TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846514-B21
HPE 4TB 12G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	818367-B21
HPE 3TB 12G SAS 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846528-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
SSD Selection To streamline the configuration process for HPE ProLiant Gen9 servers and to provide the best product availability, HPE recommends SSDs from the list located here: http://www.hpe.com/products/recommend.	
Best product availability is limited to US, Canada, and Latin America at this time.	
To further assist with configuration, HPE also offers an SSD Selector Tool located here: http://ssd.hpe.com	
12G SAS Hot Plug SFF (2.5-inch) Mainstream Endurance Solid State Drives - 3yr Warranty	
HP 1.6TB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779176-B21
HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779172-B21
HP 400GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779168-B21
HP 200GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr Wty H2 Solid State Drive	779164-B21
12G SAS Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives - 3yr Warranty	
HP 1.92TB 12G SAS Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802891-B21
12G SAS Hot Plug SFF (2.5-inch) SC Read Intensive-3 Solid State Drives - 3yr Warranty	
HPE 3.84TB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816576-B21
HPE 1.92TB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816572-B21
HPE 960GB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816568-B21
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HPE 480GB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816562-B21
12G SAS Hot Plug SFF (2.5-inch) SC Write Intensive Solid State Drives - 3yr	
Warranty	
HPE 1.6TB 12G SAS Write Intensive-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846432-B21
HPE 800GB 12G SAS Write Intensive-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846430-B21
HP 800GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802586-B21
HP 400GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802582-B21
HP 200GB 12G SAS Write Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802578-B21
12G SAS Hot Plug SFF (2.5-inch) SC Mixed Use-1 Solid State Drives - 3yr Warranty	
HPE 1.6TB 12G SAS Mixed Use-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846436-B21
HPE 800GB 12G SAS Mixed Use-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846434-B21
12G SAS Hot Plug SFF (2.5-inch) SC Mixed Use-3 Solid State Drives - 3yr Warranty	
HPE 3.2TB 12G SAS Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	822567-B21
HPE 1.6TB 12G SAS Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	822563-B21
HPE 800GB 12G SAS Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	822559-B21
HPE 400GB 12G SAS Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	822555-B21
12G SAS Hot Plug SFF (2.5-inch) SC Enterprise Solid State Drives - 3yr Warranty	
HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762263-B21
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762261-B21
12G SAS Hot Plug LFF (3.5-inch) SC Enterprise Solid State Drives - 3yr Warranty	
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
6G SAS Hot Plug SFF (2.5-inch) SC Enterprise Hard Drives - 3yr Warranty	
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652605-B21
6G SATA Hot Plug SFF (2.5 inch) SC Midline Hard Drives - 1yr Warranty	
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655710-B21
6G SATA Hot Plug SFF (2.5-inch) SC 512e Hard Drives - 1yr Warranty	
HPE 6TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	861750-B21
HPE 4TB SATA 6G Midline 7.2K LFF (3.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	861752-B21
HP 2TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765455-B21
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765453-B21
6G SATA Hot Plug LFF (3.5-inch) SC 512e Hard Drives - 1yr Warranty	
HPE 10TB 6G SATA 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	857648-B21
HPE 8TB 6G SATA 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	861594-B21
HPE 8TB 6G SATA 7.2K rpm LFF (3.5in) 512e SC Midline 1yr Warranty Hard Drive	819203-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765255-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Helium 1yr Warranty Hard Drive	793683-B21
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drive	793667-B21
HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC 512e Performance 1yr Warranty Hard Drives	793665-B21
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HP 4TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 512e 1yr Warranty Hard Drive	765253-B21
6G SATA Hot Plug LFF (3.5-inch) SC Midline Hard Drives - 1yr Warranty	
HPE 6TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	846510-B21
HPE 4TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	861678-B21
HPE 3TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	861693-B21
HPE 2TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	861676-B21
HPE 1TB 6G SATA 7.2K rpm LFF (3.5in) SC Midline 1yr Warranty Hard Drive	861691-B21
HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658071-B21
6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives - 1yr	
Warranty	
HPE 1.92TB 6G SATA Read Intensive SFF (2.5in) SC 1yr Warranty Solid State Drive	871770-B21
HPE 960GB 6G SATA Read Intensive SFF (2.5in) SC 1yr Warranty Solid State Drive	871768-B21
HPE 480GB 6G SATA Read Intensive SFF (2.5-inch) SC SSD	872855-B21
HPE 240GB 6G SATA Read Intensive SFF (2.5-inch) SC SSD	872853-B21
6G SATA Hot Plug SFF (2.5-inch) SC DS Read Intensive Solid State Drives - 1yr Warranty	
Warranty HPE 3.84TB 6G SATA Read Intensive SFF (2.5-inch) SC DS SSD	868830-B21
HPE 1.92TB 6G SATA Read Intensive SFF (2.5-inch) SC DS SSD	868826-B21
HPE 1.6TB SATA 6G Read Intensive SFF (2.5 in) SC 3yr Wty Digitally Signed Firmware	869386-B21
SSD	007300-DZI
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	869384-B21
HPE 960GB 6G SATA Read Intensive SFF (2.5-inch) SC DS SSD	868822-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	869378-B21
HPE 480GB 6G SATA Read Intensive SFF (2.5-inch) SC DS SSD	868818-B21
HPE 240GB 6G SATA Read Intensive SFF (2.5-inch) SC DS SSD	868814-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	869376-B21
HPE 150GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	869374-B21
6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive-2 Solid State Drives - 3yr	
Warranty	
HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804605-B21
HP 800GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804599-B21
HP 480GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804593-B21
HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804587-B21
HP 120GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804581-B21
HP 80GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804575-B21
6G SATA Hot Plug SFF (2.5-inch) SC Write Intensive-2 Solid State Drives - 3yr	
Warranty	
HPE 1.6TB 6G SATA Write Intensive-2 SFF (2.5-inch) SC SSD	872363-B21
HP 1.2TB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804677-B21
HP 800GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804671-B21
HPE 800GB 6G SATA Write Intensive-2 SFF (2.5-inch) SC SSD	872359-B21
HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804665-B21
HPE 400GB 6G SATA Write Intensive-2 SFF (2.5-inch) SC SSD	872355-B21
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HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804639-B21
6G SATA Hot Plug SFF (2.5-inch) SC DS Mixed Use Solid State Drives - 3yr	
Warranty	
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872352-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872348-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872344-B21
6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use-2 Solid State Drives - 3yr Warranty	
HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804631-B21
HP 800GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804625-B21
HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	832414-B21
HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804613-B21
6G SATA Hot Plug LFF (3.5-inch) SCC Read Intensive Solid State Drives	
HPE 1.6TB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	869388-B21
HPE 480GB SATA 6G Read Intensive LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	869380-B21
6G SATA Hot Plug LFF (3.5-inch) SCC Read Intensive-2 Solid State Drives	
HP 1.6TB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804608-B21
HP 800GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804602-B21
HP 480GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804596-B21
HP 240GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804590-B21
HP 120GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804584-B21
HP 80GB 6G SATA Read Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804578-B21
6G SATA Hot Plug LFF (3.5-inch) SCC Write Intensive-2 Solid State Drives - 3yr Warranty	
HPE 1.6TB 6G SATA Write Intensive-2 LFF (3.5-inch) SCC SSD	872365-B21
HP 1.2TB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804680-B21
HPE 800GB 6G SATA Write Intensive-2 LFF (3.5-inch) SCC SSD	872361-B21
HP 800GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804674-B21
HPE 400GB 6G SATA Write Intensive-2 LFF (3.5-inch) SCC SSD	872357-B21
HP 400GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804668-B21
HP 200GB 6G SATA Write Intensive-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804642-B21
6G SATA Hot Plug LFF (3.5-inch) SCC DS Mixed Use Solid State Drives - 3yr Warranty	
HPE 960GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	872350-B21
HPE 480GB SATA 6G Mixed Use LFF (3.5in) SCC 3yr Wty Digitally Signed Firmware SSD	872346-B21
6G SATA Hot Plug LFF (3.5-inch) SC Mixed Use-2 Solid State Drives - 3yr Warranty	
HP 1.6TB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804634-B21
HP 800GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804628-B21
HP 480GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	832417-B21
HP 200GB 6G SATA Mixed Use-2 LFF 3.5-in SCC 3yr Wty Solid State Drive	804616-B21
HPE NVMe PCIe Read Intensive SFF (2.5 inch) SC2 Solid State Drives - 3yr Warranty	
HP 2TB NVMe PCIe Read Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	764908-B21

Core Options

HP 1.2TB NVMe PCIe Read Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive HP 400GB NVMe PCIe Read Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive NOTE: HPE NVMe drives need the enablement kit 764628-B21. NOTE: Hewlett Packard Enterprise has qualified the NVMe drive portfolio using the Operating System inbox drivers.	764906-B21 764904-B21
NOTE: For full detail please see the HPE Solid State Drive QuickSpecs.	
HPE NVMe PCIe Write Intensive SFF (2.5-inch) Solid State Drives - 3yr Warranty	
HP 1.6TB NVMe PCIe Write Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	764892-B21
HP 800GB NVMe PCIe Write Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	736939-B21
HP 400GB NVMe PCIe Write Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	736936-B21
HPE NVMe PCIe Mixed Use SFF (2.5 inch) SC2 Solid State Drives - 3yr Warranty	
HP 2TB NVMe PCIe Mixed Use SFF 2.5-in SC2 3yr Wty Solid State Drive	765044-B21
HP 1.6TB NVMe PCIe Mixed Use SFF 2.5-in SC2 3yr Wty Solid State Drive	765038-B21
HP 800GB NVMe PCIe Mixed Use SFF 2.5-in SC2 3yr Wty Solid State Drive	765036-B21
HP 400GB NVMe PCIe Mixed Use SFF 2.5-in SC2 3yr Wty Solid State Drive	765034-B21
M.2 SSD	
HPE Dual 340GB Read Intensive-2 Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	835565-B21
HPE 340GB Read Intensive-2 Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	835563-B21
HP Dual 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	777894-B21
HP 120GB Value Endurance Solid State M.2 Enablement Kit for ProLiant ML/DL Servers	788028-B21
NOTE: M.2 drives go in PCIe slots and use B140i SATA controller only.	
NOTE: M.2 supports Software RAID only.	
NOTE: No HPE Flexible Smart Array supported.	
Hard Drive Blank Kits	
HP Large Form Factor Hard Drive Blank Kit	666986-B21
HP Small Form Factor Hard Drive Blank Kit	666987-B21
Hard Drive Kits	
HP DL360 Gen9 2SFF SAS/SATA Universal Media Bay Kit	764630-B21
NOTE: Required when upgrading 8SFF config to 10SFF chassis. Not supported in the 4LFF Chassis.	
HP DL360 Gen9 NVMe 2 Solid State Drive Express Bay Enablement Kit	764628-B21
NOTE: This option provides support for up to 2NVMe drives in SFF only. This option cannot be used with the Universal Media Bay Kit.	
NOTE: The HPE DL360 Gen9 High Performance Fan Kit (766201-B21) is required with the NVMe kit.	
NOTE: The PCIe card can only be used in slot1 of primary riser or slot3 of secondary optional FH riser.	
HP DL360 Gen9 6 NVMe + 4 SAS/SATA Express Bay Enablement Kit	817676-B21
NOTE: This option provides support for up to 6NVMe drives in SFF only. Adding NVMe drives replaces support for Universal Media Bay.	
NOTE: The PCIe card in this enablement kit can only be populated in slot1 of primary riser.	

Core Options

HPE Networking	25 Gigabit Ethernet adapters	
	HPE Ethernet 4x25Gb 1-port 620QSFP28 Adapter	817762-B21
	HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter	817753-B21
	10 Gigabit Ethernet adapters	
	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	727055-B21
	HPE Ethernet 10Gb 2-port 561T Adapter	716591-B21
	HPE Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
	HPE Ethernet 10Gb 2-port 557SFP+ Adapter	788995-B21
	HPE Ethernet 10Gb 2-port 546SFP+ Adapter	779793-B21
	HP Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
	HPE Ethernet 10Gb 2-port 530T Adapter	656596-B21
	NOTE: The DL360 Gen9 chassis ships with 4x1Gb Embedded.	
	NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter.	
	NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately. NOTE: Please see NIC QuickSpecs for Technical Specifications and additional	
	information: http://www.hp.com/go/ProLiantNICs	
	1 Gigabit Ethernet adapters	
	HPE Ethernet 1Gb 4-port 366T Adapter	811546-B21
	HPE Ethernet 1Gb 4-port 331T Adapter	647594-B21
	HPE Ethernet 1Gb 2-port 361T Adapter	652497-B21
	HPE Ethernet 1Gb 2-port 332T Adapter	615732-B21
	FlexibleLOM Adapters	
	HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter	817749-B21
	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	727054-B21
	HPE Ethernet 10Gb 2-port 561FLR-T Adapter	700699-B21
	HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21
	HPE FlexFabric 10Gb 2-port 556FLR-T Adapter	794525-B21
	HPE FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter	727060-B21
	HPE Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	779799-B21
	HPE FlexFabric 10Gb 4-port 536FLR-T Adapter	764302-B21
	HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
	HP FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
	HPE Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
	HPE Ethernet 1Gb 4-port 331FLR Adapter	629135-B22
	NOTE: The DL360 Gen9 chassis ships with 4x1Gb Embedded.	
	NOTE: Only one FlexibleLOM can be added to the server as an upgradeable option.	

HPE InfiniBand	QLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA HP InfiniBand FDR 2-port 545QSFP Adapter HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter HP InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	583211-B21 702211-B21 764284-B21 764285-B21 764286-B21 825110-B21
	HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	825110-B21 Page 38

Core Options		
	HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter HPE 100Gb 1-port OP101 QSFP28 x8 PCIe Gen3 with Intel® Omni-Path Architecture	825111-B21 829334-B21
	Adapter HPE 100Gb 1-port OP101 QSFP28 x16 PCIe Gen3 with Intel® Omni-Path Architecture Adapter	829335-B21
	NOTE: For additional InfiniBand information: https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04154440	
HPE I/O Expansion	HP DL360 Gen9 Low Profile PCIe Slot CPU2 Kit	764642-B21
Options	NOTE: This option kit requires a second CPU and will add an additional Low Profile PCIe 3.0 slot.	
	HPE DL360 Gen9 2P Full Height PCIe Slot 2 GPU Enablement Kit	867249-B21
	NOTE: This enablement kit can support more than one Full Height/GPU card	
	NOTE: This option kit requires a second CPU and will add an additional FH / $rak{3}$ Length	
	PCle 3.0 slot. NOTE: This kit includes GPU power cable and bracket; when this option kit is installed the Low Profile PCle3.0 riser is not useable.	
HPE Power	HPE Flex Slot Platinum Hot-plug Power supplies	
Supplies	HPE 1400W Flex Slot Platinum Plus Hot Plug Power Supply Kit	720620-B21
	NOTE: Flex Slot Platinum Plus power supplies support power efficiency of up to 94%.	,20020 D21
	Includes a C-14 power inlet (blue) connector that can support HPE Power Discovery Services.	
	HPE 500W Flex Slot Platinum Hot Plug Power Supply Kit	720478-B21
	NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94%. Includes a C-14 power inlet connector.	
	HPE 800W Flex Slot Titanium Hot Plug Power Supply Kit	720482-B21
	NOTE: Flex Slot Titanium power supplies support power efficiency of up to 96%. Includes a C-14 power inlet connector.	
	HPE 800W Flex Slot Universal Hot Plug Power Supply Kit	720484-B21
	NOTE: Flex Slot Platinum power supplies support power efficiency of up to 94%. Includes a C-14 power inlet connector.	
	HPE 800W Flex Slot -48VDC Hot Plug Power Supply Kit	720480-B21
	NOTE: Flex Slot -48VDC power supplies support power efficiency of up to 94%.	
	NOTE: Maximum of 2 Flex Slot power supplies per platform.	
	NOTE: All power supplies must be of the same input voltage, output rating, and efficience matching power supplies are installed, you may receive an error message and/experience issues with your server.	· · · · · · · · · · · · · · · · · · ·
	NOTE: Mixing different power supplies in the same server may limit or disable some power supply features including support for power redundancy. To ensure access to all available features, all power supplies within the same server should have the same output and efficiency ratings	
	NOTE: Prior to selecting a power supply option, it is highly recommended that you revie configuration in the HPE Power Advisor tool to determine the right size power supply. T	
	Advisor is located at: http://www.hp.com/go/hppoweradvisor	

Core Options

NOTE: Support for HPE Power Discovery Services is included with the 1400W Flex Slot option. Power specifications and technical content for all HPE Server power supplies can be found at: http://www.hp.com/go/proliant/powersupply.

HPE Computation	HPE NVIDIA Tesla M4 4GB Computational Accelerator	P9U90A
and Graphics Accelerators	NOTE: Max of 2 cards can be ordered (Slots 1 and 3).	
Accelerators	NOTE: If 2 cards are installed, then 764642-B21 (HPE DL360 Gen9 Low Profile PCIe Slot CPU2 Kit) is required.	
	HPE NVIDIA Quadro M2000 Graphics Accelerator	P8Y48A
	NOTE: Max of 2 cards can be ordered (Slots 1 and 3).	
	NOTE: If 2 cards are installed, then 867249-B21 (HPE DL360 Gen9 2P PCIe GPU Enablemnt Kit) is required.	
	HPE NVIDIA Quadro M4000 Graphics Accelerator	M9X58A
	NOTE: Max of 2 cards can be ordered (Slots 1 and 3).	
	NOTE: If 1 card is installed, then 766199-B21 (HPE DL360 Gen9 GPU Cable for CPU1 Kit) is required.	
	NOTE: If 2 cards are installed, then only 867249-B21 (HPE DL360 Gen9 2P PCIe GPU Enablemnt Kit) is required (GPU cable will be included in kit).	
	HP NVIDIA Quadro K2200 Graphics Accelerator	JOG89A
	NOTE: Max of 2 cards can be ordered (Slots 1 and 3).	
	NOTE: If 2 cards are installed, then 867249-B21 (HPE DL360 Gen9 2P PCIe GPU Enablemnt Kit) is required.	
	HP DL360 Gen9 GPU Cable for CPU1 Kit	766199-B21
	NOTE: This kit is required if one HPE NVIDIA Quadro M4000 Graphics Accelerator card is installed (includes GPU cable and brackets).	
	NOTE: The NVIDIA Quadro modules are supported only on 64-bit versions of Linux and V operating systems as well as on Virtual Machine client operating systems. The supported operating systems are RHEL6, RHEL7, SLES 11, SLES12 and Windows Server 2012 R2.	
HPE Cooling	HP DL360 Gen9 High Performance Fan Kit	766201-B21
Options	NOTE: High Performance Fan Kit is required for some supported configurations	
	(10SFF Chassis, 160W CPUs or higher, LRDIMMs, NVMe SSDs) and extended ambient	
	operating temperatures above 35° C. Qualifications for extended ambient configurations are at: https://www.hp.com/servers/ashrae.	
	NOTE: High performance fan kit increases power consumption. To reduce power	
	consumption use high performance heat sinks (795235-B21).	

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 Hewlett Packard Enterprise approved configurator. Contact your local sales representative for additional information.

HPE Insight	HPE Insight Control	
Software	HPE Insight Control including 1yr 24x7 Technical Support and Updates 1-server LTU	C6N27A
	HPE Insight Control including 1yr 24x7 TSU E-LTU	C6N28AB
	HPE Insight Management Media Kit	C6N314
	 NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple license activation key. NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate on line or via fax in order to obtain the license activation key(s). Includes one y HPE Software Technical Support and Update Service. 	tificate must be ear of 24x7
	NOTE: Licenses ship without media. The HPE Insight Control Media Kit can be ordered s	eparately, or
	can be downloaded at: <u>http://www.hp.com/go/insightupdates</u> . NOTE: For additional license options please see the QuickSpecs at:	
	https://www.hpe.com/h20195/v2/gethtml.aspx?docname=c04123391	
HPE Converged	HPE OneView Advanced (with HPE iLO Advanced)	
Infrastructure	HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
Management	HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
Software	HPE OneView Advanced (without HPE iLO Advanced)	
	HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU	P8B24A
	HPE OneView w/o iLO including 3yr 24x7 Support Track 1-server LTU	P8B25A
	HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU	P8B26AAE
	HPE OneView Physical Media Kit LTU	E5Y37A
	HPE Operations Analytics for HPE OneView LTU	K8G29A
	HPE Operations Analytics for HPE OneView E-LTU	K8G29AAE
	NOTE: Full licenses of HPE OneView Advanced also provide the 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.	
	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. 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.	
	<u>mpa//www.mp.com/go/oneview.</u>	

High Performance	HPE Cluster Management Utility
Clusters	HPF Insight Cluster Management I I

HPE Insight Cluster Management Utility 1yr 24x7 Flexible LTUQL803BHPE Insight Cluster Management Utility 3yr 24x7 Flexible LTUBD476ANOTE: These part numbers can be used to purchase one certificate for multipleG2E81Alicenses and support with a single activation key. Each license is for one node (server).Flexible LTU

BD477A

831739-B21

831737-B21

831735-B21

831733-B21

803197-B21

803195-B21

803204-B21

803202-B21

803200-B21

775672-B21

775670-B21

775668-B21

775666-B21

664918-B21

745823-B21

488069-B21

Additional Options Customer will receive a printed end user license agreement and license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online in order to obtain a license key. Customer also will receive a support agreement. HPE Insight Cluster Management Utility Media NOTE: For additional license kits please see the HPE Insight Cluster Management Utility QuickSpecs. HPE Read Intensive PCIe Workload Accelerator HPE PCIe Workload Accelerator Options HPE 6.4TB Read Intensive-2 FH/HL PCIe Workload Accelerator HPE 3.2TB Read Intensive-2 HH/HL PCIe Workload Accelerator HPE 1.6TB Read Intensive-2 HH/HL PCIe Workload Accelerator HPE 1.3TB Read Intensive-2 HH/HL PCIe Workload Accelerator HPE Write Intensive PCIe Workload Accelerator HPE 1.6TB NVMe Write Intensive HH/HL PCIe Workload Accelerator HPE 800GB NVMe Write Intensive HH/HL PCIe Workload Accelerator HPE Mixed Use PCIe Workload Accelerator HPE 2.0TB NVMe Mixed Use HH/HL PCIe Workload Accelerator HPF 1.6TB NVMe Mixed Use HH/HL PCIe Workload Accelerator HPE 800GB NVMe Mixed Use HH/HL PCIe Workload Accelerator NOTE: Please see the HPE PCIe Workload Accelerators for ProLiant Servers **QuickSpecs** for Technical Specifications and additional information. Light Endurance (LE) PCIe Workload Accelerators HPE 5.2TB FH/HL Light Endurance (LE) PCIe Workload Accelerator HPE 2.6TB HH/HL Light Endurance (LE) PCIe Workload Accelerator HPE 1.3TB HH/HL Light Endurance (LE) PCIe Workload Accelerator HPE 1.0TB HH/HL Light Endurance (LE) PCIe Workload Accelerator **HPE Security** HP 1U Security Bezel Kit HP Trusted Platform Module 2.0 Kit **NOTE:** This option kit is supported on Gen9 servers with UEFI Mode not Legacy Mode. It is not compatible with HPE ProLiant Gen8 servers or earlier generation variants. **NOTE:** HPE Gen9 servers purchased earlier may require latest BIOS update to be compatible. **NOTE:** HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module. HP Trusted Platform Module Option **NOTE:** The TPM (Trusted Platform Module) is a microcontroller chip that can securely store artifacts used to authenticate the server platform. These artifacts can include passwords, certificates and encryption keys. Windows® BitLocker™ Drive Encryption (BitLocker) is a data protection feature available in Windows Server® 2008. BitLocker leverages the enhanced security capabilities of a Trusted Platform Module (TPM) version 1.2. The TPM works with BitLocker to help protect user data and to ensure

system was offline. For more information about TPM, including a white paper, go to: http://www.hp.com/go/TPM.

that a server running Windows Server 2008 has not been tampered with while the

NOTE: ProLiant OS pre-installed units will come with the partition required for TPM
deployment.
NOTE: The TPM key is unique to every TPM deployed server and must be retained.
Misplacing or losing the key could result in data loss.
NOTE: The HPE Trusted Platform Module Option (488069-B21) is the TPM 1.2
version. Compatible server platforms include Gen8 and Gen9 servers.
NOTE: HPE server systems can have a TPM module (of any type) installed only once.
It cannot be replaced with any other TPM module.

HPE Storage SAS Controllers Controllers HPE Smart Arra

HPE Smart Array Controllers

HPE Shiari Array Controllers	
HPE Smart Array P841/4GB FBWC 12Gb 4-ports Ext SAS Controller	726903-B21
HPE Smart Array P840/4GB FBWC 12Gb 2-ports Int SAS Controller	726897-B21
HP DL360 Gen9 Smart Array P840 SAS Card with Cable Kit	766205-B21
NOTE: Includes the P840 Smart Array controller with 4GB integrated cache, HPE Smart Storage Battery, and associated cabling required to attach it to a 10SFF model configuration.	
HPE Smart Array P840ar/2GB FBWC 12Gb 2-port Internal SAS Controller	843199-B21
NOTE: The Smart Array P840ar SAS controller will require the P840ar Cable Kit 843234-B21.	
HPE Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller	726825-B21
HPE Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller	726821-B21
NOTE: The P440/4GB will support up to 8 internal SAS/SATA drives and consume 1 PCIe slot. Also includes the HPE Smart Storage Battery.	
HPE Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller	726736-B21
NOTE: The P440ar/2GB will support up to 8 internal SAS/SATA drives without using a PCIe slot.	
HPE DL360 Gen9 Smart Array P440ar Controller for 2 GPU Configurations	726740-B21
NOTE: This controller is specific for the DL360 Gen9 with 2 GPGPUs installed. It has a unique heatsink that will allow the 2 nd GPU to fit.	
NOTE: When ordering controllers, see HPE Cable Options below for required cable(s). FIO factory integrated option only via CTO.	indicates
HPE Smart Host Bus Adapters	
HPE H241 12Gb 2-ports Ext Smart Host Bus Adapter	726911-B21
HPE H240 12Gb 2-ports Int Smart Host Bus Adapter	726907-B21
HPE H240ar 12Gb 2-ports Int Smart Host Bus Adapter	726757-B21
NOTE: The H240ar will support up to 8 internal SAS/SATA drives without using a PCIe slot.	
NOTE: When ordering controllers, see HPE Cable Options below for required cable(s).	
HPE Cable Options	
HPE DL360 Gen9 Smart Array P840ar Cable Kit	843234-B21
HP DL360 Gen9 SFF Embedded SATA Cable	766207-B21
NOTE: Needed only when attaching drive bays to the B140i controller in an 8 SFF model.	
HP DL360 Gen9 SFF Smart Array P440/H240 SAS Cables	775927-B21

NOTE: Required for use with the HPE Smart Array P440 (PCIe Controllers) 726821- B21 or 761872-B21, the option kit documentation details out cable placement with the HPE Smart Array P440 in PCIe 3.0 Slots 1 or 2 connecting to the 8SFF backplane or the 2 SFF SAS/SATA option kit.	
HP DL360 Gen9 SFF Smart Array P440ar/H240ar SAS Cable	766209-B21
HP DL360 Gen9 LFF Embedded SATA Cable	766213-B21
HP DL360 Gen9 LFF Smart Array P440/H240 SAS Cables	775929-B21
NOTE: Required for use with the HPE Smart Array P440 (PCIe Controllers) 726821- B21 or 761872-B21, the option kit documentation details out cable placement with the HPE Smart Array P440 in PCIe 3.0 Slots 1 or 2 connecting to the 4LFF backplane.	
HP DL360 Gen9 LFF Smart Array P440ar/H240ar SAS Cable	766211-B21
NOTE: Required for an upgrade from a B140i SATA controller to a HPE Smart HBA 240ar or HPE Smart Array P440ar.	
NOTE: Options noted "DL360 Gen9 SFF" are supported on the 8 SFF model only. Option noted "DL360 Gen9 LFF" are supported on the 4 LFF model only.	ins
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	727258-B21

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

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

Rack-Mount Tape Solutions

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 1/8 G2 LTO-6 Ultrium 6250 Fibre Channel Tape Autoloader	COH19A
HPE StoreEver LTO-6 Ultrium 6250 Tape Drive in a 1U Rack Mount Kit	COL99A
HPE StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970A
HPE StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in a 1U Rack Mount Kit	EJ014B
HPE StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive	EH958B
HPE StoreEver LTO-5 Ultrium 3280 SAS External Tape Drive	EH900B
HPE StoreEver LTO-4 Ultrium 1760 SAS (1) in a 1U Rack Mount Kit	EH946C
HPE StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive	EH920B
HPE StoreEver LTO-3 Ultrium 920 SAS External Tape Drive	EH848B
HPE StoreEver 1U SAS Rack Mount Kit	AE459B
HPE Tape Storage Systems	
HPE StoreEver MSL6480	

Additional Options HPE StoreEver MSL6480 Scaleable Expansion Module QU626A HPE StoreEver MSL6480 Scalable Base Module QU625A HPE StoreEver MSL2024 O-drive Tape Library AK379A HPE StoreEver MSL4048 O-drive Tape Library AK381A NOTE: Please see the HPE StoreEver MSL6480 Tape Library QuickSpecs for Technical Specifications and additional information). **HPE Disk Backup HPE RDX Removable Disk Backup System** HPE RDX 3TB USB 3.0 Internal Disk Backup System P9L71A HPE RDX+ 3TB USB 3.0 External Disk Backup System P9L72A HP RDX 2TB USB3.0 External Disk Backup System E7X53B B7B69B HP RDX+ 1TB External Backup System HP RDX+ 500GB External Backup System B7B66B HPE RDX+ External Docking System C8S07B HPE D3700 Enclosure QW967A HPE D3600 Enclosure QW968A HPE StoreOnce 5100 48TB System BB915A HPE StoreOnce 3540 24TB System BB914A HPE StoreOnce 3520 12TB System BB922A HPE StoreOnce 3100 8TB System BB913A NOTE: For the complete range of RDX drives and media see: <u>http://www.hp.com/go/rdx</u>. For hardware and software compatibility of HPE disk backup products see: http://www.hp.com/storage/SPOCK. NOTE: Please see the HPE RDX Removable Disk Backup System QuickSpecs for additional part numbers, Technical Specifications, and additional information NOTE: The following is a list of all Fibre Channel Host Bus Adapters for Windows and Linux. For detailed **HPE Storage** compatibility information please see: Options http://www8.hp.com/us/en/products/data-storage/storefabric.html **Emulex Fibre Channel HBAs** HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter QOL11A HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter QOL12A HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter QOL13A HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter QOL14A HPE StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter C8R39A HPE StoreFabric SN1100E 4-port 16Gb Fibre Channel Host Bus Adapter P9D99A HPE StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter C8R38A HPE StoreFabric 84E 4-port 8Gb Fibre Channel Host Bus Adapter E7Y63A HPE 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter AJ763B HPE 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter AJ762B **QLogic Fibre Channel HBAs** HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter P9M75A HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter P9M76A HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter P9D93A HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter P9D94A

HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter	QW971A
HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter	QW972A
HPE StoreFabric 84Q 4-port 8Gb Fibre Channel Host Bus Adapter	P9D91A
HPE 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ764A
HPE 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AK344A
Converged Network Adapter	
HPE StoreFabric CN1200E 10Gb Converged Network Adapter	E7Y06A
HPE StoreFabric CN1100R Dual Port Converged Network Adapter	QW990A
HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter	N3U51A
HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter	N3U52A

HPE 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/35 2TB 6G SAS 7.2K LFF Dual port MDL HDD 70TB Bundle	QQ697A
	HP D6000 w/70 2TB 6G SAS 7.2K LFF Dual port MDL HDD 140TB Bundle	QQ698A
	HP D6000 w/35 3TB 6G SAS 7.2K LFF Dual port MDL HDD 105TB Bundle	QQ699A
	HP D6000 w/70 3TB 6G SAS 7.2K LFF Dual port MDL HDD 210TB Bundle	QQ700A
	HPE D6000 w/70 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 560TB Bundle	MOT59A
	HPE D6000 w/35 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 280TB Bundle	MOT58A

HPE Data Center	HPE Advanced Series Racks

Racks	HPE 42U 600mm x 1075mm Advanced Pallet Rack	H6J65A
	HPE 42U 600mm x 1075mm Advanced Shock Rack	H6J66A
	HPE 42U 600mm x 1200mm Advanced Pallet Rack	H6J67A
	HPE 42U 600mm x 1200mm Advanced Shock Rack	H6J68A
	HPE 36U 600mm x 1075mm Advanced Pallet Rack	H6J77A
	HPE 36U 600mm x 1075mm Advanced Shock Rack	H6J78A
	HPE 14U 600mm x 1075mm Advanced Shock Rack	H6J82A
	HPE 22U 600mm x 1075mm Advanced Pallet Rack	H6J83A
	HPE 22U 600mm x 1075mm Advanced Shock Rack	H6J84A
	HPE 48U 600mm x 1075mm Advanced Pallet Rack	H6J87A
	HPE 48U 600mm x 1075mm Advanced Shock Rack	H6J88A
	NOTE: Please see the HPE Advanced Series Racks QuickSpecs for information on	
	additional racks options and rack specifications.	
	HPE Enterprise Series Racks	
	HP 36U 600mm x 1075mm Enterprise Pallet Rack	BW895A
	HP 36U 600mm x 1075mm Enterprise Shock Rack	BW896A
	HPE 42U 600mm x 1075mm Enterprise Pallet Rack	BW903A
	HP 42U 600mm x 1075mm Enterprise Shock Rack	BW904A
	HP 42U 600mm x 1200mm Enterprise Pallet Rack	BW907A
	HP 42U 600mm x 1200mm Enterprise Shock Rack	BW908A
	HP 47U 600mm x 1075mm Enterprise Pallet Rack	BW911A

HP / / I I 600mm v 10 / 5mm Enterprise Shock Rack	DIMON
HP 47U 600mm x 1075mm Enterprise Shock Rack	BW912A
HP 47U 600mm x 1200mm Enterprise Pallet Rack	BW913A
HP 47U 600mm x 1200mm Enterprise Shock Rack	BW914A
	BW917A
	BW918A
	AF046A
	AF040A
on additional racks options and rack specifications.	
NOTE: Gen9 rail kits have changed significantly from prior generation rail kits. Please tak review the installation documentation that comes with the server to help you with the installation gour Gen9 server.	stallation of
NOTE: Rail kits are optional for DL360/380 Gen9 and is no longer standard with the serv have the option to purchase their server without a rail kit.	ver. Customers
NOTE: Ball bearing and Easy Install rail kits contain telescoping rails to allow for in-rack s NOTE: To assist in the installation of the server into the rack an optional installation tool contacting your local services representative (p/n 695539-001).	-
CAUTION: Hewlett Packard Enterprise recommends that a minimum of two people are re Rack Server installations. Please refer to your installation instructions for proper tools and people to use for any installation.	
HPE Basic Power Distribution Units (PDU)	
HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU	H5M54A
HPE Basic 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU	H5M56A
HPE Basic 2.8kVA/L5-30P 24A/120V Outlets (18) 5-20R/Vertical NA/JP PDU	H5M55A
HPE Basic 4.9kVA/60320 C20 Detachable 16A/230V Outlets (20) C13/Vertical WW PDU	H5M57A
HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (20) C13/Vertical NA/JP PDU	H5M58A
HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13/Vertical NA/JP PDU	H5M61A
HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU	H5M59A
HPE Basic 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (6) C19/Vertical NA PDU	H5M60A
HPE Basic 9.2kVA/50A Terminal Block 40A/230V Outlets (30) C13 (6) C19/Vertical WW PDU	H5M75A
HPE Basic 3Ph 5.7kVA/ L21-20P 16A/120-208V Outlets (24) C13 (3) 5-20R/Vertical	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	H5M62A
PDU	
PDU HPE Basic 3Ph 11kVA/60309 16A/240V Outlets (36) C13 (6) C19/Vertical NA PDU	H5M67A
	H5M67A 252663-D71
HPE Basic 3Ph 11kVA/60309 16A/240V Outlets (36) C13 (6) C19/Vertical NA PDU	
	 NOTE: Gen9 rail kits have changed significantly from prior generation rail kits. Please tak review the installation documentation that comes with the server to help you with the instour Gen9 server. NOTE: Rail kits are optional for DL360/380 Gen9 and is no longer standard with the serve have the option to purchase their server without a rail kit. NOTE: Ball bearing and Easy Install rail kits contain telescoping rails to allow for in-rack server. NOTE: To assist in the installation of the server into the rack an optional installation tool contacting your local services representative (p/n 695539-001). CAUTION: Hewlett Packard Enterprise recommends that a minimum of two people are refered. Server installations. Please refer to your installation instructions for proper tools ampeople to use for any installation. HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU HPE Basic 2.8kVA/L5-30P 24A/120V Outlets (18) 5-20R/Vertical NA/JP PDU HPE Basic 2.8kVA/L5-30P 24A/120V Outlets (18) 5-20R/Vertical NA/JP PDU HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (20) C13/Vertical NA/JP PDU HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (20) C13/Vertical NA/JP PDU HPE Basic 3.0k 0.4/c0320 C20 Detachable 16A/230V Outlets (20) C13/Vertical NA/JP PDU HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (20) C13/Vertical NA/JP PDU HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (20) C13/Vertical NA/JP PDU HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (30) C13 (6) C19/Vertical NA/JP PDU HPE Basic 3.5kVA/L6-30P 24A/208V Outlets (30) C13 (6) C19/Vertical NA/JP PDU HPE Basic 3.5kVA/L6-30P 24A/208V Outlets (24) C13 (3) 5-20R/Vertical NA/JP PDU HPE Basic 3.5kVA/L6-30P 24A/208V Outlets (20) C13/Certical NA/JP PDU HPE Basic 3.5kVA/L6-30P 24A/208V Outlets (20) C13 (6) C19/Vertical NA/JP PDU HPE Basic 3.5kVA/L6-30P 24A/208V Outlets (20) C13 (6) C19/Vertical NA/JP PDU HPE Basic 3.5

HPE Basic Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF512A
HPE Basic Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF519A
HPE Basic Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF511A
HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09A
NOTE: Please see the HPE Basic Power Distribution Units (PDU) QuickSpecs for information on additional options and product specifications.	
HPE Metered Power Distribution Units (PDU)	
HPE Metered 2.8kVA/L5-30P 24A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU	D9N43A
HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU	D9N46A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Horizontal NA/JP PDU	D9N44A
HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (16) C13/Vertical WW PDU	D9N45A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Vertical NA/JP PDU	G9Z05A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU	D9N47A
HPE Metered 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (3) C19/Vertical NA/JP PDU	D9N51A
HPE Metered 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (18) C13 (3) C19 (3) 5- 20R/Vertical NA/JP PDU	D9N53A
HPE Metered 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (3) C19/Vertical NA PDU	D9N49A
HPE Metered 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	D9N58A
HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V Outlets (30) C13 (3) C19/Vertical NA/JP PDU	D9N61A
HPE Metered 3Ph 16.6kVA/60309 32A-30A 5-wire 24A/230V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	D9N62A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (24) C13 (3) C19/Vertical NA/JP PDU	D9N54A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	D9N59A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	G9Z07A
HPE Metered 3Ph 19.9kVA/L22-30P 24A/277V Outlets (30) RF-203P-HP/Vertical NA PDU	D9N63A
HP Environmental Sensor for Remote Monitored and Managed PDUs	E2D53A
NOTE: Please see the HPE Metered Power Distribution Units (PDU) QuickSpecs for information on additional options and product specifications.	
HPE Intelligent Power Distribution Unit (PDU)	
HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF520A
HPE Intelligent Modular 8.3kVA/CS8265C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF521A
HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF522A

HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6)	AF523A
C19/Horizontal NA/JP PDU	
HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) C19/Horizontal NA/JP PDU	AF901A
HPE Intelligent Modular 3Ph 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) C19/Horizontal NA/JP PDU	AF535A
HPE Intelligent Modular 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (6) C19/Horizontal NA/JP PDU	AF531A
HPE Intelligent Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (20) C13 (6) C19/Horizontal NA/JP PDU	AF532A
HPE Intelligent Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF533A
HP 5xC13 Intelligent PDU Extension Bar G2 Kit	AF547A
HP 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar	AF528A
NOTE: Please see the HPE Intelligent Power Distribution Unit (PDU) QuickSpecs for	
information on additional options and product specifications.	
HPE Metered and Switched Power Distribution Units (PDU)	
HPE Metered Switched 2.8kVA/L5-30P 24A/120V Outlets (24) 5-20R /Vertical NA/JP PDU	H8B48A
HPE Metered Switched 3.6kVA/60320 C20 Detachable 16A/230V Outlets (7) C13 (1) C19/Vertical WW PDU	H8B49A
HPE Metered Switched 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU	H8B50A
HPE Metered Switched 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (6) C19/Vertical NA/JP PDU	H8B52A
HPE Metered Switched 3Ph 8.6kVA/L21-30P 24A/208V Outlets (20)C13 (3)C19 (1)5- 20R/Vertical NA/JP PDU	H8B53A
HPE Metered Switched 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	H8B55A
HPE Metered Switched 3Ph 17.3kVA/60309 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	H8B56A
NOTE: Please see the HPE Metered and Switched Power Distribution Units (PDU)	
QuickSpecs for information on additional options and product specifications.	
NOTE: To learn more, please visit the <u>HPE Uninterruptible Power Systems (UPS)</u> web page.	

HPE Rack Mount	HPE Location Discovery Services	
Consoles, KVM	HPE 36U Location Discovery Kit	BW945A
Switches, and	HPE 42U Location Discovery Kit	BW946A
Keyboards	HPE 47U Location Discovery Kit	BW947A
	HPE Location Discovery Services LCD8500 Kit	TL052A
	NOTE: Please see the HPE Location Discovery Services QuickSpecs for information	
	on additional options and product specifications.	
	HPE Rack Mount Consoles	
	HP LCD8500 1U US Rackmount Console Kit	AF630A
	HP LCD8500 1U US TAA Rackmount Console Kit	AF645A
	HPE KVM Switches	

HP 0x1x8 G3 KVM Console Switch	AF651A
HP 0x2x16 G3 KVM Console Switch	AF652A
HP TAA 0x2x16 G3 KVM Console Switch	AF653A
HP USB Remote Access Key for G3 KVM Console Switches	AF650A
HP KVM Console USB Interface Adapter	AF628A
HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software	AF618A
HP 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software	AF619A
HP KVM Console USB 2.0 Virtual Media CAC Interface Adapter	AF629A
HP 1x4 USB/PS2 KVM Console Switch	AF611A
HP 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software	AF620A
HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software	AF621A
HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software	AF622A
NOTE: To learn more, please visit the HPE KVM Switches web page.	
HPE USB Keyboard and Mouse	
HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21
Rail Kits	
HP 1U LFF Gen9 Easy Install Rail Kit	789388-B21
HP 1U Small Form Factor Easy Install Rail Kit	734807-B21
HP 1U Cable Management Arm for Easy Install Rail Kit	734811-B21
HP 1U Small Form Factor Ball Bearing Rail Kit	663201-B21
HP 1U Large Form Factor Ball Bearing Rail Kit	663202-B21
HP 1U Cable Management Arm for Ball Bearing Rail Kit	663203-B21
HPE Other Options	
HPE Rack LED Light Kit	BW939A
HP Kit LCD 1.83m Latch Display Port Cable	G7T29A

HPE Uninterruptible HPE DirectFlow Three Phase UPS

Power Systems (UPS) Power Unit (10 UPS)

HPE R12000 DirectFlow - 1U Rackmount Uninterruptible Power System	G9Y75A
HPE R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System	AF478A
Input/Output Module Options for 1U UPS	
HPE 30A 400-415 Volt Three Phase NA R10000 DirectFlow UPS IEC309 Input/Output Module	AF489A
HPE 30A 480 Volt Three Phase NA R12000 DirectFlow UPS L22-30 Input/Output Module	AF491A
HPE 30A 480 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module	AF492A
HPE 30A 400-415 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module	G9Y76A
HPE DirectFlow UPS Management Card	AF493A
Power Unit (2U UPS)	
HPE R18000 DirectFlow - 2U Rackmount Uninterruptible Power System	AF479A
Input/Output Module Options for 2U UPS	
HPE 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	AF486A
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HPE 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	AF487A
HPE 30A 400 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module	D9Q02A
HPE 30A 400-415V Three Phase NA R18000 DirectFlow UPS 1:1 IEC309 Input/Output Module	AF484A
NOTE: All Input/Output Modules support dual output outlets except the AF484A.	
Battery Pack Options	
HPE DirectFlow UPS - 1U Rackmount Lithium-ion Battery Pack	AF480A
HPE DirectFlow UPS - 3U Rackmount VRLA Battery Pack	AF482A
HPE WW DirectFlow Secondary Battery Cable	AF497A
NOTE: Please see the HPE DirectFlow Three Phase Uninterruptible Power System QuickSpecs for information on additional options and product specifications.	
HPE Tower UPS	
HPE T750 G4 UPS Models	
HPE T750 G4 NA/JP Uninterruptible Power System	J2P85A
HPE T1000 G4 UPS Models	
HPE T1000 G4 NA/JP Uninterruptible Power System	J2P86A
HPE T1500 G4 UPS Models	
HPE T1500 G4 NA/JP Uninterruptible Power System	J2P87A
HPE Rack/Tower UPS	
HPE R/T2200 G4 UPS Models	
HPE R/T2200 G4 NA/JP Uninterruptible Power System	J2R00A
HPE R/T3000 G4 UPS Models	
HPE R/T3000 G4 Low Voltage NA/JP Uninterruptible Power System	J2R01A
HPE R/T3000 G4 High Voltage NA/JP Uninterruptible Power System	J2R02A
R1500 G4 Models	
HPE R1500 G4 NA Uninterruptible Power System	J2Q99A
R7000 Uninterruptible Power System (UPS)	
HPE R7000 4U 50A High Voltage NA/JP Uninterruptible Power System	AF462A
R5000 Uninterruptible Power System (UPS)	
HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System	AF460A
NOTE: Please see the HPE Line Interactive Single Phase UPS QuickSpecs for	
information on additional options and product specifications.	
HPE UPS Options	
HPE R/T2200 G4 Extended Runtime Module	J2R09A
HPE R/T3000 G4 Extended Runtime Module	J2R10A
HPE 2U Rack/Tower UPS Shipping Kit	L4Q11A
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	HPE 32GB microSD Mainstream Flash Media Kit	700139-B21
	HP Dual 8GB microSD Enterprise Midline USB Kit	741279-B21
	HPE 8GB microSD Enterprise Mainstream Flash Media Kit	726116-B21
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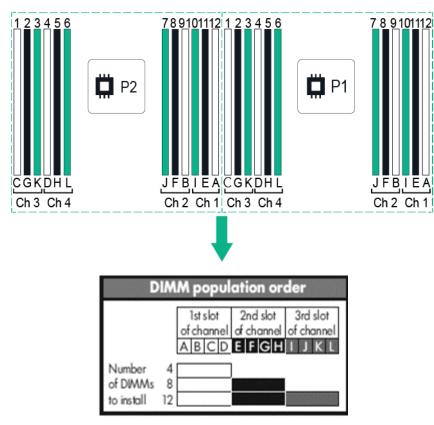
Additional Options			
	HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit	737953-B21	
HPE Support	Installation & Start-up Services		
Services	HPE Install ProLiant DL36x(p) Service	U4506E	
	HPE Installation and Startup DL36x(p) Service	U4507E	
	Proactive Care		
	HPE 3 year Proactive Care 24x7 DL360 Gen9 w/IC Service	U5HM4E	
	HPE 3 year Proactive Care 24x7 with DMR DL360 Gen9 w/IC Service	U5HM5E	
	HPE 3 year Proactive Care 24x7 with CDMR DL360 Gen9 w/IC Service	U5HM6E	
	HPE 3 year Proactive Care Call to Repair DL360 Gen9 w/IC Service	U5HN3E	
	HPE 3 year Proactive Care Call to Repair 24x7 with DMR DL360 Gen9 w/IC Service	U5HN4E	
	HPE 3 year Proactive Care Call to Repair with CDMR DL360 Gen9 w/IC Service	U5HN5E	
	HPE 3 year Proactive Care 24x7 DL360 Gen9 Service	U7AM2E	
	HPE 3 year Proactive Care 24x7 with DMR DL360 Gen9 Service	U7AM3E	
	HPE 3 year Proactive Care 24x7 with CDMR DL360 Gen9 Service	U7AM4E	
	HPE 3 year Proactive Care Call to Repair DL360 Gen9 Service	U7AM8E	

HPE 3 year Proactive Care Call to Repair 24x7 with DMR DL360 Gen9 Service HPE 3 year Proactive Care Call to Repair with CDMR DL360 Gen9 Service

U7AM9E

U7AN0E

Memory Population guidelines



General Memory Population Rules and Guidelines

- . White DIMM slots denote the first slot of a channel. For 1 DPC (DIMM per channel) populate white slots only.
- . A minimum of one DIMM is required per server.
- . Install DIMMs only if the corresponding processor is installed.
- . When two processors are installed, balance the DIMMs across the two processors
- . Populate DIMMs from heaviest load (quad-rank) to lightest load (single-rank) within a channel. Heaviest load (DIMM with most ranks) within a channel goes furthest from the processor.
- . Do not mix RDIMMs or LRDIMMs.
- . 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
- . HPE memory from previous generation servers is not compatible with the DL360 Gen9 Server.
- . For memory population rules and additional memory guidelines, please see the DL360 Gen9 user guide at <u>http://www.hp.com/support</u>.
- . There are four (4) Memory channels per processor; eight (8) channels per 2 processor server.
- . There are three (3) DIMM slots for each memory channel; twenty four (24) total slots for 2 processor server.

Memory Bandwidth and	Capacity							
[DIMM Type]		Registered DIMMs (RDIMMs)				Load Reduced (LRDIMMs)		
HPE SKU P/N	805347-B21	805349-B21	836220-B21	805351-B21	805353-B21	805358-B21	809208-B21	
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank	Quad Rank	Octal Rank	
DIMM Capacity	8GB	16GB	16GB	32GB	32GB	64GB	128GB	
Voltage	Ű,	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	
DRAM Depth [bit]	1G	2G	1G	2G	2G	2G	2G	
DRAM Width [bit]	x8	x4	x4	x4	x4	x4	x4	
DRAM Density	8Gb	8Gb	4Gb	8Gb	8Gb	8Gb	8Gb	
CAS Latency	17-17-17	17-17-17	17-17-17	17-17-17	17-17-17	17-17-17	20-18-18	
DIMM Native Speed (MT/s)	2400	2400	2400	2400	2400	2400	2400	
SLOTS THAT CAN BE P	OPULATED							
24 slot servers	24	24	24	24	24	24	24	
MAXIMUM CAPACITY (GB)							
	192	384	384	768	768	1536	3072	
POPULATED DIMM SPE	ED (MT/s)							
1 DIMM Per Channel	2400	2400	2400	2400	2400	2400	2400	
2 DIMM Per Channel	2133	2133	2400	2400	2400	2400	2400	
3 DIMM Per Channel	1866	1866	1866	1866	2400	2400	2400	

NOTE: Mixing the 128GB LRDIMM with other capacities is not supported.

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

Memory Bandwidth and Capacity									
[DIMM Type]		Registered DIMMs (RDIMMs)					Load Reduced (LRDIMMs)		
HPE SKU P/N	726717- B21	726718- B21	759934- B21	726719- B21	728629- B21	726720- B21	726722- B21	726724- B21	
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Dual Rank	Dual Rank	Quad Rank	Quad Rank	
DIMM Capacity	4GB	8GB	8GB	16GB	32GB	16GB	32GB	64GB	
Voltage	5	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	
DRAM Depth [bit]	512M	1G	512M	1G	1G	2G	2G	2G	

	0	1	0	1	1	1	1	,
DRAM Width [bit]	x8	x4	x8	x4	x4	x4	x4	x4
DRAM Density	4Gb	4Gb	4Gb	4Gb	4Gb	8Gb	8Gb	8Gb
CAS Latency	15-15-15	15-15-15	15-15-15	15-15-15	15-15-15	15-15-15	15-15-15	15-15-15
DIMM Native Speed (MT/s)	2133	2133	2133	2133	2133	2133	2133	2133
SLOTS THAT CAN I	BE POPULAT	ED						
24 slot servers	24	24	24	24	24	24	24	24
MAXIMUM CAPACI	FY (GB)							
	96	192	192	384	768	384	768	1536
POPULATED DIMM	SPEED (MT/	s)						
1 DIMM Per Channel	2133	2133	2133	2133	2133	2133	2133	2133
2 DIMM Per Channel	2133	2133	2133	2133	2133	2133	2133	2133
3 DIMM Per Channel	1600	1600	1600	1600	1600	1866	1866	1866

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		CPU 2				
	Slot #	Population order	Slot #	Population order				
Chnl 3	1	С	1	С	Chnl3			
	2	G	2	G				
	3	К	3	К				
		CPU 1		CPU 2				
	Slot #	Population order	Slot #	Population order				
Chnl 4	4	D	4	D	Chnl 4			
	5	Н	5	Н				
	6	L	6	L				
		CPU 1		CPU 2				
	Slot #	Population order	Slot #	Population order				
Chnl 2	7	J	7	J	Chnl 2			
	8	F	8	F				
	9	В	9	В				
		CPU 1		CPU 2				
	Slot #	Population order	Slot #	Population order				

Chnl	1	10		10		Chnl 1
		11	E	11	E	
		12	A	12	A	

Memory Speed	Processor Models	Supported Memory Speeds
by Processor	E5-2603v3, E5-2609v3	1600MT/s
Model	E5-2623v3, E5-2620v3, E5-2630v3, E5-2640v3, E5-2630Lv3	1866MT/s
	E5-2637v3, E5-2650v3, E5-2660v3, E5-2670v3, E5-2680v3, E5-2690v3, E5-2683v3, E5-2695v3, E5-2697v3, E5-2643v3, E5-2667v3, E5- 2687Wv3, E5-2698v3, E5-2650Lv3, E5-2699v3	2133MT/s
	E5-2603v4, E5-2609v4	1866MT/s
	E5-2630Lv4, E5-2620v4, E5-2623v4, E5-2640v4 E5-2630v4	,2133MT/s
	E5-2650Lv4, E5-2637v4, E5-2643v4, E5-2650v4 E5-2660v4, E5-2697Av4, E5-2680v4, E5- 2690v4, E5-2687Wv4, E5-2667v4, E5-2683v4, E5-2695v4, E5-2697v4, E5-2698v4, E5-2699v4, E5-2699Av4	2400MT/s

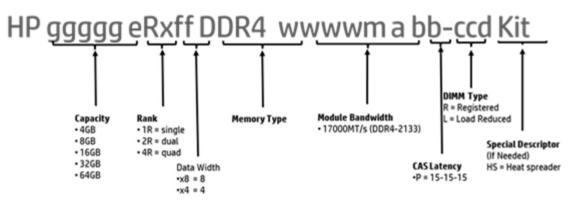
ory	Pre Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
	E5-2670v3	64GB(4x16GB)	704GB (20x32GB, 4x16GB)	1536GB (24x64GB)
	E5-2660v4	64GB(4x16GB)	704GB (20x32GB, 4x16GB)	3072GB (24x128GB)
	E5-2650v4	32GB (2x16GB)	736GB (22x32GB, 2x16GB)	3072GB (24x128GB)
	E5-2650v3	32GB (2x16GB)	736GB (22x32GB, 2x16GB)	1536GB (24x64GB)
	E5-2640v4, E5-2630v4	16GB (1x16GB)	752GB (23x32GB, 1x16GB)	3072GB (24x128GB)
	E5-2630v3	16GB (1x16GB)	752GB (23x32GB, 1x16GB)	1536GB (24x64GB)
	E5-2603v4	8GB (1x8GB)	744GB (23x32GB, 1x8GB)	3072GB (24x128GB)
	E5-2603v3	8GB (1x8GB)	744GB (23x32GB, 1x8GB)	1536GB (24x64GB)

DDR4 memory options part number decoder

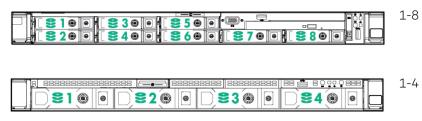
NOTE: Capacity references are rounded to the common gigabyte (GB) values.

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

- 32GB = 32,768MB
- 64GB = 65,536MB



Storage



	S 9 0 0 S 100 0 **
2 2 8 9	

- 1-8 8 x SFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays
 - 4 x LFF SATA/SAS/SSD Hot Pluggable Hard Drives Bays
- 1-10 10 x SFF SATA/SAS/SSD Hot Pluggable Hard Drive Bays

System Unit	Dimensions	8 SFF and 10 SFF 1.7 x	17.1 x 27.5 inches (4.32 x 43.47 x 69.85 cm)
		4 LFF - 1.7 x 17.1 x 29	.5 inches (4.32 x 43.46 x 75.0 cm)
	Weight	Maximum:	8 SFF Chassis 33.3 lb. (15.31 kg)
	(approximate)	(all hard drives, power supply, and processor installed)	NOTE: Includes 2 SFF Option for a total of 10 SFF HDD.
		IIISIalleu)	4 LFF Chassis 37 lb. (16.78kg)
		Minimum:	8SFF Chassis 27 lb. (12.25 kg)
		(one hard drive, power supply, and processor installed)	4 LFF Chassis 30.36 lb. (13.77 kg)
	Input Requirements	Rated Line Voltage	100 to 120 VAC
	(per power supply)		200 to 240 VAC
	BTU Rating	Maximum	For 800W Power Supply: 3207 BTU/hr (at 100 VAC), 3071 BTU/hr (at 200 VAC), 3112 BTU/hr (at 240 VAC) for China Only
			For 500W Power Supply: 1979 BTU/hr (at 100 VAC), 1911 BTU/hr (at 200 VAC), 1965 BTU/hr (at 240 VAC) for China Only
	Power Supply Output (per power supply)	Rated Steady-State Power	For 1400W Power Supply: 1400W (at 240 VAC), 1400W (at 240 VAC)
			For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VAC) input for China only
			For 500W Power Supply: 500W (at 100 VAC), 500W (at 240 VAC), 500W (at 240 VAC) input for China only
		Maximum Peak Power	For 1400W Power Supply: 1400W (at 200 to 240 1VAC), 1400W (at 240 VAC) input for China only
			For 800W Power Supply: 800W (at 100 to 127 VAC), 800W (at 200 to 240 1VAC), 800W (at 240 VAC) input for China only
			For 500W Power Supply: 500W (at 100 to 127 VAC), 500W (at 200 to 240 VAC), 500W (at 240 VAC) input for China only
	System Inlet Temperature	Standard Operating Support	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. NOTE: System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).
		Extended Ambient Operating Support	For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of

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		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
		For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL:
		http://www.hp.com/servers/ashrae
		System performance may be reduced if operating in the extended ambient operating range or with a fan fault.
	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).
Relative Humidity	Operating	Minimum to be the higher (more moisture) of - 12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F) dew point or 90% relative humidity.
(non-condensing)	Non-operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.
Altitude	Operating	3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
	Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
Acoustic Noise	declared average bysta (LpAm) when the produ Noise emissions were m	A-Weighted sound power levels (LWAd) and nder position A-Weighted sound pressure levels uct is operating in a 23°C ambient environment. neasured in accordance with ISO 7779 (ECMA 74) ance with ISO 9296 (ECMA 109).
	Idle	
	LWAd	(1P non-redundant) 4.6 A Average Bystander
		(2P redundant) 5.5 A Average Bystander
	LpAm	(1P non-redundant) 29 dBA
		(2P redundant) 37 dBA
	Operating	
	LWAd	(1P non-redundant) 4.6 A Average Bystander
		(2P redundant) 6.2 C Average Bystander
	LpAm	(1P non-redundant) 30 dBA
		(2P redundant) 46 dBA

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	processors, one 500GE DDR4 RDIMM's 2133M NOTE: 2P Configuration processors, one 500GE 16GB DDR4 RDIMM's 2 controller PCI card with NOTE: Values are subju- reference only. NOTE: Performance of depending on the syste	ect to change without notification and are for system, options, and ancillary equipment will vary em configuration. ed do not account for non-Hewlett Packard			
Emissions Classification (EMC)	FCC Rating Normative Standards	Class A CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1			
	NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.				

HPE Dynamic Smart	Number of PCI links	Four
Array B140i	PCI link rate	4Gb/s
Controller	Storage protocol support	SATA
	SAS/SATA peak data transfer rate	6Gb/s
	Number of SAS/SATA links	10 links
	SAS/SATA connectivity	2x4 connectors; 2x1 connectors
	Expander support	No
	Drives supported (max)	Up to 10 Internal Drives
	RAID support	0, 1, 10, 5 SATA
	Software management	HPE SSA, SMH, SIM
	Warranty	Server warranty
	HPE Secure Encryption license	Not Supported
	HPE SmartCache License	Not Supported
	HPE Smart Storage Administrator	Supported

HPE Ethernet 1Gb 4-port 331i Adapter Compatibility

Network Interface

10Base-T/100Base-TX/1000Base-TX IEEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX PCI Express, two lanes (x2)

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Controller	BCM5719	
Network Transfer Rate	10Base-T (Half-Duplex)	10 Mb/s per port, 40 Mb/s combined
	10Base-T (Full-Duplex)	20 Mb/s per port, 80 Mb/s combined
	100Base-TX (Half- 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
	1000Base-TX (Full- Duplex)	2000 Mb/s per port, 8000 Mb/s combined
Connector	Four RJ-45	
Cable Support	10 Base-T 10/100/1000 Base-TX	Categories 3, 4 or 5 UTP; up to 328 ft (100 m) Category 5 or higher UTP; up to 328 ft (100 m)

Environment- friendly Products and Approach	End-of-life Management and Recycling	Hewlett Packard Enterprise offers end-of-life product return, trade-in, and recycling programs, in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.	
		http://www8.hp.com/us/en/hpe/HPE- information/livingprogress/environmentalprogress/product- recycling.html#.V-IPA_krKiM	

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

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

Date	Version History	Action	Description of Change
13-Feb-2017	From Version 25 to 26	Added	Added new HDD and SSD offering to the HPE Drives section.
		Changed	Graphics and HPE StoreVirtual VSA were revised.
28-Nov-2016 From Version 24	From Version 24 to 25	Added	Added new LFF Hard Drives, new Fiber Channel HBAs up to 32Gb, and new E5-2699A v4 processor.
		Changed	Processors, Memory, Maximum Internal Storage, HPE Drives, and HPE Computation and Graphics Accelerators were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
7-Oct-2016	From Version 23 to 24	Changed	Notes under the HPE Computation and Graphics Accelerators section were revised.
26-Sep-2016	From Version 22 to 23	Added	Added new SATA LFF hard drives offering. New NVIDIA Tesla M4 4GB Module was added.
		Changed	Maximum Internal Storage was revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
19-Aug-2016	From Version 21 to 22	Changed	Smart Buy models section was revised for the NA version only.
15-Aug-2016	From Version 20 to 21	Added	Added new Networking, Storage, and Unique options.
	Changed	Overview, Memory, Standard Features section, Pre- configured Models, Configuration Information - Factory Integrated Models, HPE Drives, InfiniBand, and Computation and Graphics Accelerators were revised.	
8-Jul-2016	From Version 19 to 20	Changed	Smart Buy models section was revised for the NA version only.
6-Jun-2016 From Version 18 to 19	From Version 18 to 19	Added	Added new HPE 25GB Ethernet Adapters, HPE 100GB OPA Adapter, HPE 128GB DIMM (8Rx4 PC4-2400T-L) Kit, HPE NVIDIA Quadro M2000 GPU Module, HPE StoreFabric 84Q 4-port 8Gb FC HBA, and new 2TB, 4TB, and 8TB LFF Drives.
	Changed	Memory, Maximum Internal Storage, Pre-configured Models, HPE Unique Options, HPE Memory, HPE Drives, HPE InfiniBand, HPE Power Supplies, HPE Computation and Graphics Accelerators, HPE Insight Software, HPE PCIe Workload Accelerator Options, HPE Storage Controllers, HPE Disk Backup, and HPE Storage Options were updated.	
22-Apr-2016	From Version 17 to 18	Changed	Smart Buy model 800079-S01 was revised.
15-Apr-2016	From Version 16 to 17	Changed	Smart Buy models section was revised for the NA version only.
5-Apr-2016 From Version 15	From Version 15 to 16	Added	Added new NVIDIA Quadro M4000 GPU module.
		Changed	What's New section was updated. Standard Features/Memory and HPE Memory sections were revised.
31-Mar-2016	From Version 14 to 15	Added	Added Intel E5-2600v4 Processors support, new HPE Smart Memory DDR4 2400MHz, new HPE Persistent Memory, new HPE Flexible Smart Array P840ar controller, new NVIDIA Quadro GPU options, and new TPM 2.0 module.

		Changed	Embedded Management, Security, Warranty, Service and Support, Pre-configured Models, Memory, and Storage Options sections were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
26-Feb-2016	From Version 13 to 14	Changed	Note for front view image – callout #9 was updated.
16-Feb-2016	From Version 12 to 13	Added	New HDD offering was added to HPE Drives.
		Changed	Maximum Internal Storage, HPE Power Supplies, HPE Computation and Graphics Accelerators, HPE Disk Backup, 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 11 to 12	Added	Smart Buy models were added to the NA version.
1-Dec-2015	From Version 10 to 11	Added	New HDD offering was added to HPE Drives.
			New options added to HPE PCIe Workload Accelerator Options, HPE Tape Backup, and HPE Disk Storage Systems.
		Changed	On System Management Chipset, Embedded Management, and Server utilities were revised.
			Product images were updated.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
28-Sep-2015	From Version 9 to 10	Added	Added support for PCIe Solid State Drives, additional 6Gb SATA SSD drives, support for new Network adapters, and support for new PCIe workload accelerators.
			Added new HPE OneView management software.
		Changed	Internal Storage Devices, Maximum Internal Storage, and HPE Drives were updated.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
17-Aug-2015	From Version 8 to 9	Added	Added new Solid State Drives offering.
		Changed	What's New changed to: Support for PCIe Solid State Drives Support for additional 6Gb SATA SSD drives
			Maximum Internal Storage and HPE Unique Options were revised.
1-Jun-2015 F	From Version 7 to 8	Added	New DVD Universal Media Bay option was added.
			New larger capacity HDDs (up to 8TB LFF), Max capacity 32TB were added.
			New higher capacity memory (64GB), Max capacity 1.5TB was added.
			New Networking options were added.
			Optional Software was added to HPE Storage Controllers.
		Changed	HPE Disk Backup and HPE Uninterruptible Power Systems (UPS) were updated.

30-Mar-2015	From Version 6 to 7	Added	New Hard Drives offering. Added new HPE PCIe Workload Accelerator Options. Optional Software added to HPE Storage Controllers. Added new HPE Care Pack Services.
		Changed	What's New, Core Options, and Additional Options were revised.
		Removed	Removed obsolete HPE Care Pack Services.
17-Feb-2015	From Version 5 to 6	Added	Added Smart Buy Models to the NA version only.
9-Feb-2015 From Version 4 to 5	Added	Added What's New section. Added new HPE Drives, Pre-configured Models, and G4 UPS models.	
		Changed	HPE Processors, HPE Disk Backup, HPE Tape Backup, HPE Rack Mount Consoles, KVM Switches, and Keyboards, HPE Uninterruptible Power Systems (UPS), and HPE Computation and Graphics Accelerators sections were revised.
1-Dec-2014	From Version 3 to 4	Changed	Changes were made throughout the QuickSpecs.
13-Oct-2014	From Version 2 to 3	Added	6G SATA Enterprise Value G1 Solid State Drives were added to Core Option section.
			HPE PCIe Workload Accelerator Options, HPE USB and SD options were added to the Additional Options section.
			Smart Buys section was added to NA version.
		Changed	Call outs description for images, Standard Features, Optional Features, Pre-Configured Models, Configuration Information - Factory Integrated Models, Core Options, Additional Options, and Memory sections were revised.
23-Sep-2014	From version 1 to version 2	Changed	Changes were made throughout the QuickSpecs.



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

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