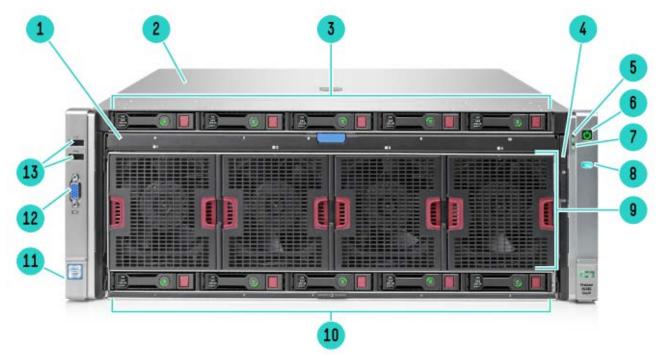
Overview

HPE ProLiant DL580 Generation9 (Gen9)

The HPE ProLiant DL580 Gen9 Server is the Hewlett Packard Enterprise four socket (4S) enterprise standard x86 server offering commanding performance, rock-solid reliability and availability, and compelling consolidation and virtualization efficiencies.

Supporting Intel® Xeon® E7-4800/8800 v3 processors, the HPE DL580 Gen9 offers enhanced processor performance, up to 6 TBs of memory, greater IO bandwidth (9 PCIe Gen3.0 slots), and 12 Gb/s of SAS speeds. HPE ProLiant DL580 Gen9 has security and data protection features for system resiliency that your business can depend on. All, making it ideal for mission-critical enterprise, business intelligence, and database applications.

Whether needed for highly virtualized or cloud based deployments, with intelligence and simplicity of automated management with HPE OneView and HPE iLO 4 your business can achieve agile and lower cost infrastructure management.



Front View

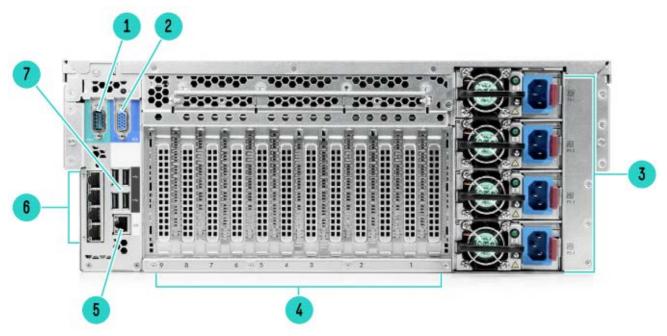
- 1 CPU Memory Drawer Handle
- 3 Drive bays 6-10

NOTE: Drives installed in these bays require the optional SAS backplane and cables. **NOTE:** Optional NVMe drives are only supported in Drive bays 6-10.

- 5 Health Status LED
- 7 NIC status LED
- 9 Fans 1-4
- 11 Discovery services connectors
- 13 USB connectors (2)

- 2 Quick removal access panel
- 4 Systems Insight Display
- 6 Power On/Standby button and system power LED button
- 8 UID button
- 10 Drive bays 1-5
- 12 Video connector

Overview

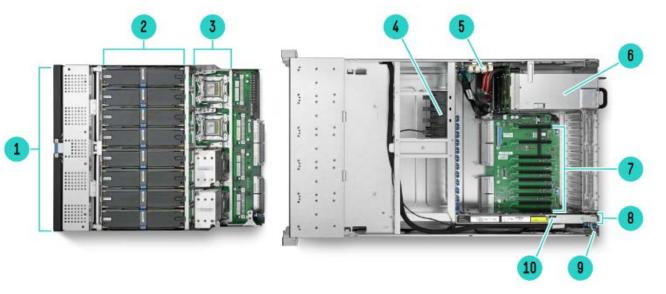


Rear View

- 1 Serial connector
- 3 Power Supplies 1-4
- 5 Dedicated iLO connector
- 7 USB connectors (4)

- 2 Video connector
- 4 PCI expansion slots 1-9
- 6 FlexibleLOM ports 1-4

NOTE: Port configuration is dependent on the installed FlexibleLOM and may differ from what is shown in the illustration.



Internal View

- 1 CPU Memory Drawer
- 3 Processors 1-4
- 5 I/O Card Auxiliary Power Connectors
- 7 PCI expansion slots 1-9

- 2 Memory Cartridges 1-8
- 4 FBWC capacitor slots 1-4
- 6 Power Supplies
- 8 FlexibleLOM connector

QuickSpecs

Overview

 9 SPI board (houses iLO chip, FBWC, microSD slot, 2x 10 MicroSD Slot USB slots, TPM, top SAS backplane connector)

What's New

- Controllers:
- HPE StoreFabric 84 (Emulex) 4-port 8Gb Fibre Channel HBA (p/n E7Y63A)
- HPE StoreFabric 84 (Q-Logic) 4-port 8Gb Fibre Channel HBA (p/n P9D91A)
- HPE SN1100Q 16Gb 1-port Fibre Channel HBA (p/n P9D93A)
- HPE SN1100Q 16Gb 2-port Fibre Channel HBA (p/n P9D94A)
- SSDs:
- HPE 800GB 12G SAS Write Intensive-1 SFF Smart Carrier SSD (p/n 846430-B21)
- HPE 1.6TB 12G SAS Write Intensive I-1 SFF Smart Carrier SSD (p/n 846432-B21)
- HPE 800GB 12G SAS Mixed Use-1 SFF Smart Carrier SSD (p/n 846434-B21)
- HPE 1.6TB 12G SAS Mixed Use-1 SFF Smart Carrier SSD (p/n 846436-B21)
- Networking:
- HPE StoreFabric CN1100R-T 10Gb CAN (p/n N3U52A)
- HPE StoreFabric CN1200E-T 10Gb CAN (p/n N3U51A)
- HPE Flexfabric 10Gb 2-port 556FLR-T Adapter (p/n 794525-B21)
- HPE Flexfabric 10Gb 2-port 556FLR-T FIO Adapter (p/n 794526-B21)
- HPE Ethernet 10Gb 2-port 562SFP+ Adapter (p/n 727055-B21)
- HPE Ethernet 10Gb 2-port 562FLR-SFP+Adapter (p/n 727054-B21)
- HPE Ethernet 10Gb 2-port 562FLR-SFP+FIO Adapter (p/n 789006-B21)
- Security Hardware:
- HP TPM Module 2.0 Kit (p/n 745823-B21)
- Transceivers:
- HP BLc 10G SFP+ SR Transceiver (p/n 455883-B21)

QuickSpecs

Standard Features

Processor	Model	CPU	Cores	L3 Cache	Power]	
One or more of the		frequency					
following depending on model	E7-8893v3	3.2GHz	4	45MB	140W		
	E7-8891v3	2.8GHz	10	45MB	165W		
	E7-8890v3	2.5GHz	18	45MB	165W		
	E7-8880v3	2.3GHz	18	45MB	150W		
	E7-8880Lv3	2.0GHz	18	45MB	115W		
	E7-8870v3	2.1GHz	18	45MB	140W		
	E7-8867v3	2.5GHz	16	45MB	165W		
	E7-8860v3	2.2GHz	16	40MB	140W		
	E7-4850v3	2.2GHz	14	35MB	115W		
	E7-4830v3	2.1GHz	12	30MB	115W		
	E7-4820v3	1.9GHz	10	25MB	115W		
	E7-4809v3	2.0GHz	8	20MB	115W		
Chipset	Intel® C602J Chips Intel® Xeon® E7-48 NOTE: For more in http://www.intel	300/8800v3 Pro nformation rega	arding Inte	el chipsets, ple	ase see the f	ollowing URL:	
On System Management Chipset	HPE iLO (Firmwar NOTE: 1 GB USB u the <u>iLO QuickSpe</u>	ser space config			essible via il	_O. Read and learn more in	
Memory	Type: HPE SmartMemor						
depending on	HPE SmartMemory DDR4 Registered (RDIMM) and Quad Rank Load Reduced (LRDIMM)						
model	DIMM Slots Availa						
	Maximum	6TB (96					
		x 64GB)					
	NOTE: Hewlett Packard Enterprise 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. For additional information, please see the HPE SmartMemory QuickSpecs . NOTE: LRDIMM and RDIMM are distinct memory technologies and cannot be mixed within a server.						

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

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

Network Controller	FlexibleLOM
	HPE ProLiant Gen9 servers offer a new flexible network technology - FlexibleLOMs, which offers customers a choice of 1Gb, 10Gb, or 10Gb base-T Ethernet or converged networking in their embedded adapter:
	HPE Ethernet 1Gb 4-port 331FLR FIO Adapter
	HPE Ethernet 1Gb 4-port 366FLR FIO Adapter
	HPE FlexFabric 10Gb 2-port 533FLR-T FIO Adapter
	HPE FlexFabric 10Gb 2-port 534FLR-SFP+ FIO Adapter
	HPE Ethernet 10Gb 2-port 546FLR-SFP+ FIO Adapter
	HPE FlexFabric 10Gb 2-port 556FLR-SFP+FIO Adapter
	HPE Flexfabric 10Gb 2-port 556FLR-T FIO Adapter
	HPE Ethernet 10Gb 2-port 560FLR-SFP+ FIO Adapter
	HPE Ethernet 10Gb 2-port 561FLR-T FIO Adapter
	HPE Ethernet 10Gb 2-port 562FLR-SFP+FIO Adapter

NOTE: For additional details see the Networking Section of this document. **NOTE:** Wake-on-LAN feature is not supported on the DL580 Gen9 with FlexibleLOMs.

Expansion Slots							
Primary Riser (Standard)	Expansion Slots #	Technology	Bus Width	Connector Width	Bus Number	Form Factor	Notes
	1	PCle 3.0	x16	x16	C0/03/0	Full length/full height	Proc 4
	2	PCle 3.0	x16	x16	C0/02/0	Full length/full height	Proc 4
	3	PCle 3.0	x16	x16	80/03/0	Full length/full height	Proc 3
	4	PCle 3.0	x8	x16	80/02/0	Full length/full height	Proc 3
	5	PCle 3.0	x8	x16	80/02/1	Full length/full height	Proc 3
	6	PCle 3.0	x16	x16	40/03/0	Full length/full height	Proc 2
	7	PCle 3.0	x8	x16	40/02/0	Full length/full height	Proc 2
	8	PCle 3.0	x8	x16	40/02/1	Full length/full height	Proc 2
	9	PCle 3.0	x16	x16	00/03/0	Full length/full height	Proc 1

Expansion Slots

NOTE: PCIe slot availability is dependent on the number of processors installed.
NOTE: Inserting cards with PCI bridges may alter the actual bus assignment number.
NOTE: Slots are enumerated differently based on OS. MS OS's enumerate from lowest to highest Device ID by bus (starting with the lowest bus).

NOTE: Up to 9 slots supported; all full-length/full-height. Standard: 4 PCI-E 3.0 x8, 5 PCI-E 3.0 x16.

Internal Storage	Hard Disk Drive	Internal SAS lower and upper backplanes support up to ten SFF hard disk
Devices	Backplane	drives or solid state drives or Express Bays (NVMe drives)
		NOTE: For Factory Integrated models, five (5) lower drive bays ship
		standard and five (5) upper drive bays can be ordered separately with a

	drive backplane kits. For Pre-configured models, please refer to the pre- configured models section below.					
model	Diskette Drive	None	-			
	Optional Optical Drive	External				
	Hard Drives	None sh	ip standard			
Maximum Internal			CAPACITY	CONFIGURATION		
Storage	Hot Plug SFF SAS		20TB	10 x 2.0TB		
	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 NVM SSD	e PCle	8TB	5 x 1.6TB		
	NOTE: Optional su for 5 NVMe SSDs of SFF drives are also available.	or 5				
Power Supply One of the following depending on model	 HPE 1500W Common Slot Platinum Plus Hot Plug Power Supply HPE 1500W Common Slot 48VDC Hot Plug Power Supply NOTE: 1500W power supply supports high line voltage only. HPE 1200W Common Slot Platinum Plus Hot Plug Power Supply NOTE: A minimum of two (2) power supplies are required. Four (4) 1500W power supplies offers N+N redundancy for highly loaded configurations. 					
				red. Four (4) 1500W power supplies offers		
	N+N redundancy Prior to making a run to determine t	for highly l power sup the right siz	oaded configurations. ply selection it is highly re	commended that the HPE Power Advisor is server configuration. The HPE Power		
	N+N redundancy Prior to making a run to determine to Advisor is located The Hewlett Pack power supplies ac solutions, and are system performan Power Research In HPE CS power sup available. All Hew	for highly l power supp the right siz at: http:// ard Enterp ross a wide designed t designed t designed t designed t designed t designed t designed t	oaded configurations. ply selection it is highly re- ze power supply for your s www.hp.com/go/hppowe rise Common Slot (CS) po e range of ProLiant and In- to provide the highest pow t Packard Enterprise CS p PRI) and certified through s provide efficiency rating	ecommended that the HPE Power Advisor is server configuration. The HPE Power eradvisor . wer supplies allow for commonality of tegrity servers, as well as HPE Storage ver supply efficiency without degrading ower supplies are tested by the Electric the ECOS 80 Plus power supply program. gs of up to 94% (80 Plus Platinum) and are t power sources are UL, CE Mark		

Server ships with high-voltage server to PDU power cord.

NOTE: If customers require a local power cord, they can check the power cord matrix for the appropriate county specific SKU. Please see the following power cord matrix for details: <u>http://www.hp.com/go/powercordmatrix</u>.

	···· <u>-</u> · - · · ·	Non-redundant	Redundant				
	4 Hot Plug Fans (eight rotors with N+1 redundancy)						
Interfaces	Serial	1 back					
	Video	1 front; 1 back					
	FlexibleLOM Network Ports	Selection of FlexibleLOM options	S				
	iLO 4 Remote Management	1 x 1Gbe dedicated					
	Micro SD Slot	1 internal					
	NOTE: Dual microSD USB option kit also available (741279-B21).						
	USB 2.0 Ports	8 total: 2 front; 4 back; 2 internal					
Operating	Microsoft Windows Server						
Systems and	Red Hat Enterprise Linux (RH	EL)					
Virtualization	SUSE Linux Enterprise Server	(SLES)					
Software Support for ProLiant	<u>VMware</u>						
Servers	<u>CentOS</u>						
Servers	Oracle Linux						
Servers	<u>Oracle Linux</u>						
Servers	NOTE: For more information or	n Hewlett Packard Enterprise Certi					
	NOTE: For more information or Servers for OS and Virtualization	on Software and latest listing of so	oftware drivers available for you				
	NOTE: For more information or Servers for OS and Virtualization server, please visit our Support	on Software and latest listing of so Matrix at: http://www.hp.com/g	oftware drivers available for you o/ossupport and our driver				
	NOTE: For more information or Servers for OS and Virtualizatio server, please visit our Support download page <u>http://h20565</u> .	on Software and latest listing of so Matrix at: http://www.hp.com/g .www2.hpe.com/hpsc/swd/public	oftware drivers available for you o/ossupport and our driver				
Upgradeability	NOTE: For more information or Servers for OS and Virtualization server, please visit our Support download page <u>http://h20565.</u> Upgradeable to four (4) process	on Software and latest listing of so Matrix at: http://www.hp.com/g .www2.hpe.com/hpsc/swd/public	oftware drivers available for you o/ossupport and our driver				
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Standard Features

Embedded	HPE Integrated Monitor your servers for ongoing management, service alerting, reporting and
Form Factor	4U rack
	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.
	Network Stack configurations
	 Boot support for option cards that only support a UEFI option ROM
	PXE boot support for IPv6 networks
	Mass Configuration Deployment Tool using RESTful API for iLO 4
	Embedded UEFI Shell
	USB 3.0 Stack
	• Support for > 2.2 TB (using GPT) boot drives
	Operating system specific functionality
	UEFI enables numerous new capabilities specific to HPE ProLiant servers such as:Secure Boot
	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 <u>http://www.hpe.com/servers/uefi</u> .
HPE Server UEFI/Legacy ROM	Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability and more secured configuration than the legacy ROM while interacting with your server at boot time. HPE ProLiant Gen9 platform defaults to UEFI and can be factory or field configured for Legacy BIOS
	 HPE iLO 4 On System Management Memory 16 MB Flash 256 MB DDR 3 with ECC (112 MB after ECC and video)
Graphics	Integrated Matrox G200 video standard • 1280 x 1024 (32 bpp) • 1920 x 1200 (16 bpp)
	NOTE: For additional technical thermal details regarding ambient temperatures, humidity and features support please visit: <u>http://www.hp.com/servers/ASHRAE</u> .
	ASHRAE A3/A4
	USB 2.0 Support
	Physical Address Extension (PAE) Support Microsoft® Logo certifications

	UEFI	Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI). Learn more at http://www.hpe.com/servers/uefi .
	RESTful API	RESTful API for iLO 4 is Redfish 1.0 conformance for simplified server management such as configuration and maintenance tasks based on modern industry standards. Learn more at http://www.hpe.com/info/restfulapi .
	Intelligent Provisioning	Hassle free server and OS provisioning for 1 or few servers with Intelligent Provisioning. Learn more at http://www.hpe.com/servers/intelligentprovisioning .
	Embedded Remote Support	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 an 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-HPE servers. HPE SIM also integrates with Smart Update Manager to provide quick and seamless firmware updates. Learn more at http://www.hpe.com/servers/hpsim .
	Scripting Tool Kit and Windows PowerShell	Provision 1 to many servers using your own scripts to discover and deploy them with Scripting Tool Kit (STK) for Windows and Linux or Scripting Tools for Windows PowerShell. Learn more at http://www.hpe.com/servers/proliant/stk or http://www.hpe.com/servers/powershell.
	RESTful Interface Tool	RESTful Interface tool is a scripting tool to provision using RESTful API for iLO 4 to discover and deploy servers at scale. Learn more at http://www.hpe.com/info/resttool .
	HPE iLO Mobile 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 <u>http://www.hpe.com/info/insightonline/explore</u> .

Security	Power-on password					
	Keyboard password					
	External USB port enable/disable					
	Network Server Mode					
	Serial interface control					
	Administrator's password					
	Trusted Platform Module (TPM)					
	TPM 2.0					
	NOTE: HPE Trusted Platform Module 2.0 Option (745823-B21) works with Gen9 servers with UEFI Mode not Legacy Mode. It is not compatible with HP ProLiant Gen8 servers or earlier generation variants. HPE Gen9 servers purchased earlier may need the latest firmware update to be compatible with the TPM 2.0 Option. The earlier HPE Trusted Platform Module Option (488069-B21) is the TPM 1.2 version, which is also available however TPM 2.0 has newer technology standards incorporated. The TPM 1.2 compatible server platforms include Gen8 and Gen9 servers. HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.					
	Intel® Secure Key					
	HPE Secure Encryption (Smart Array Controller)					
	HPE Advanced Data Guard (Smart Array Controller)					
Warranty	This product is covered by a global limited warranty and supported by HPE Services and a worldwide					

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

NOTE: Server Warranty includes 3-Year Parts, 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 HPE replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at: http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html.

Optional Features

Embedded Management	fo cc fo fu	PE iLO Advanced licenses offer smart remote functionality without compromise, or all HPE ProLiant servers. The license includes the full integrated remote onsole, virtual keyboard, video, and mouse (KVM), multi-user collaboration, onsole record and replay, and GUI-based and scripted virtual media and virtual olders. You can also activate the enhanced security and power management unctionality. Learn more about HPE iLO Advanced			
Server Management	Control op	PE Insight Control, lets you deploy, migrate, monitor, remote control, and timize your IT infrastructure through a single, simple management console. For ore information, see http://www.hpe.com/info/insightcontrol .			
	Cluster fra Management ar	PE Insight Cluster Management Utility is a HyperScale management amework that includes software for the centralized provisioning, management ad monitoring of nodes and infrastructure. Learn more http://www.hpe.com/info/cmu .			
Rack and Power Infrastructure	HPE Rack and Power Infrastructure products and services create highly efficient and intelligent solution for existing or new IT data centers. HPE Rack and Power infrastructure solutions – rack infrastructure, power protection and management, performance optimized data centers (PODs) – are the foundation you are looking for to help secure your long-term IT success. These products are designed to help you react to changes in the industry. They deliver efficient, easy-to-use capabilities to manage, monitor, deploy and provision infrastructure from entry to enterprise. As an industry leader, Hewlett Packard Enterprise is uniquely positioned to address the key concerns of power, cooling, cable management ar system access. Learn more at HPE Rack and Power Infrastructure .				
High Performance Clusters	HPE Cluster Platforr	ns HPE Cluster Platforms are specifically engineered, factory-integrated large-scale ProLiant clusters optimized for High Performance Computing, with a choice of servers, networks and software. Operating system options include specially priced offerings for Red Hat Enterprise Linux and SUSE Linux Enterprise Server, as well as Microsoft Windows HPEC Server. A Cluster Platform Configurator simplifies ordering. <u>http://www.hp.com/go/clusters</u>			
	HPE HPEC Interconnects	High Performance Computing (HPC) interconnect technologies are available for this server as part of the HPE Cluster Platform portfolio. These high-speed InfiniBand and Gigabit interconnects are fully supported by Hewlett Packard Enterprise when integrated within a Hewlett Packard Enterprise cluster. Flexible, validated solutions can be defined with the help of configuration tools. <u>http://www.hp.com/techservers/clusters/ucp/index.html</u>			
	HPE Insight Cluster Management Utility	HPE Insight Cluster Management Utility (CMU) is a Hewlett Packard licensed and supported suite of tools that are used for lifecycle management of hyperscale clusters of Linux ProLiant systems. CMU includes software for the centralized provisioning, management and monitoring of nodes. CMU makes the administration of clusters user friendly, efficient, and effective. <u>http://www.hp.com/go/cmu</u>			

Optional Features

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

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

Storage software that gets the job done:

• Data Protection and Recovery Software

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

• Data Archive and Migration Software

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

Storage Resource Management Software (SRM)

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

• Data Replication Software

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

Storage Device Management Software

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

HPE StoreVirtual VSA

With HPE StoreVirtual VSA you can use the power of virtualization to turn a set of heterogeneous and disconnected physical disk drives in your servers and storage devices into a single pool of logical storage capacity.

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

Solutions Factory Express Portfolio for Servers and Storage

HPE Factory Express offers configuration, customization, integration and deployment services for Hewlett Packard Enterprise servers and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped and deployed.

Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset

Optional Features

tagging, and custom packaging. Hewlett Packard Enterprise products supported through Factory Express include a wide array of servers and storage: HPE Integrity, HPE ProLiant, HPE ProLiant Server Blades, HPE BladeSystem, HPE 9000 servers as well as the MSAxxxx, VA7xxx, EVA, XP, rackable tape libraries and configurable network switches.

For more information on Factory Express services for your specific server model please contact your sales representative or go to: <u>http://www.hp.com/go/factory-express</u>.

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

Service and Support

HPE Technology Services delivers confidence, reduces risk and helps customers realize agility and **HPE Support** Services 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** 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 devices consolidated view of your environment. By connecting, you will receive 24x7monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to Hewlett Packard Enterprise support. 1- IDC 2 - HP CSC reports 2014 - 2015 Standard: HPE Proactive Care* with 24x7 coverage, three year Support Service Recommended HPE Proactive Care gives customers an enhanced call experience. When your products are connected to Support Hewlett Packard Enterprise, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice. This service combines three years proactive reporting and advice with our 24x7 coverage, four hour hardware response time when there is a problem. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.) running on your HPE servers. http://h20195.www2.hp.com/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 HPE servers. http://h20195.www2.hp.com/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. http://h20195.www2.hp.com/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 BladeSystem C-Class enclosure, HPE ProLiant c-Class and Integrity server blades, storage blades, SAN switch blades, HPE Virtual Connect modules (Ethernet and Fibre Channel), Ethernet network interconnects, and InfiniBand, as well as the installation of one supported operating system type (Windows® or Linux).
	HPE Technology Services Support Credits
	Offer flexible services and technical skills to meet your changing IT demands. With a menu of service that is tailored to suit your needs, you get additional resources and specialist skills to help you maintain peak performance of your IT. Offered as annual credits, you can plan your budgets while proactively responding to your dynamic business.
HPE Education Services	Keep your IT staff trained making sure they have the right skills to deliver on your business outcomes. Book on a class today and learn how to get the most from your technology investment. http://www.hpe.com/ww/learn
HPE Support Center	The HPE Support Center is a personalized online support portal with access to information, tools and experts to support Hewlett Packard Enterprise business products. Submit support cases online, chat with Hewlett Packard Enterprise experts, access support resources or collaborate with peers.
	Learn more 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 anywher 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

	High Perfor	mance Models	Database Models	
[SKU Number]	793312-B21	793314-B21	793310-B21	
Model Name	HP ProLiant DL580 Gen9 E7- 8890v3 4P 256GB-R P830i/4G 534FLR-SFP+ 1500W RPS Server	HP ProLiant DL580 Gen9 E7- 8893v3 4P 256GB-R P830i/4G 534FLR-SFP+ 1500W RPS Server	HP ProLiant DL580 Gen9 E7- 4850v3 4P 128GB-R P830i/4G 534FLR-SFP+ 1200W RPS Server	
Processor	Intel® Xeon® E7-8890v3	Intel® Xeon® E7-8893v3	Intel® Xeon® E7-4850v3	
Number of Processors		Four		
Memory	, , ,	PC4-2133P-R DIMMs (DDR4) 1emory Cartridges	128GB (8x16GB DIMMs) PC4- 2133P-R DIMMs (DDR4) installed in (4) Memory Cartridges	
Network Controller	HPE F	HPE FlexFabric 10Gb 2P 534FLR-SFP+ Adapter		
Storage Controller	HPE Smart .	HPE Smart Array P830i/4GB FBWC 12 Gbps SAS controller		
Hard Drive	Five (5) SFF	HDD/SSD drive bays. No drives	ship standard.	
Optical Drive		None		
PCI-Express Slots	(9) PCIe Ge	(9) PCIe Gen3.0 I/O Expansion slots (5x16 slots, 4x8 slots)		
Power Supply		t Platinum Plus Hot Plug Power oplies	(4) HPE 1200W Common Slot Platinum Plus Hot Plug Power Supplies	
Fans	4 hot pl	4 hot plug fans (eight rotors with N+1 redundancy)		
Management	C C	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional), Insight Control (optional), HPE OneView (optional)		
Form Factor	Rack (4U), rail kit and cable management arm are included			
Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response			

	Base Models	
[SKU Number]	793308-B21	
Model Name	HP ProLiant DL580 Gen9 E7-4809v3 2P 64GB-R P830i/2G 331FLR-SFP+ 1200W RPS Server	
Processor	Intel® Xeon® E7-4809v3	
Number of Processors	Тwo	
Memory	64GB (4x16GB DIMMs) PC4-2133P-R DIMMs (DDR4) installed in (2) Memory Cartridges	
Network Controller	HPE Ethernet 1Gb 4P 331FLR Adapter	
Storage Controller	HPE Smart Array P830i/2GB FBWC 12 Gbps SAS controller	
Hard Drive	Five (5) lower drive bays. No drives ship standard.	
Optical Drive	None	
PCI-Express Slots	(9) PCIe Gen3.0 I/O Expansion slots (5x16 slots; 4x8 slots)	
Power Supply	(2) HPE 1200W Common Slot Platinum Plus Hot Plug Power Supplies	
Fans	4 Hot Plug Fans (eight rotors with N+1 redundancy)	
Management	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional), Insight Control (optional), HPE OneView (optional)	
Form Factor	Rack (4U), rail kit and cable management arm are included	

Pre-configured Models

Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business
	day response

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

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

NOTE: HPE does not allow factory integration of options into pre-configured models. Any additional options purchased will be shipped separately.

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

NOTE: Not all models are available in all regions. Check with your local country HPE offices for availability.

Country Code Key	xx1 = B21	Worldwide
	xx1 = 291	Japan
	xx1 = AA1	PRC

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

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

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

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

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

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

[Chassis]	HP ProLiant DL580 Gen9 Configure-to-order Server	
SKU Number	793161-B21	
Processor	4U Server Chassis with front-accessible processor and memory drawer	
Storage Controller	Embedded HPE Smart Array 12G P830i Controller	
PCle	9 PCIe Gen3.0 I/O Expansion slots (5x16 slots, 4x8 slots)	
Drive Cage	5 Hot-plug SAS/SATA SFF SSD or HDD Bays (Lower)	
Fans	4 hot plug fans (eight rotors with N+1 redundancy), front accessible	
Management	iLO Management (standard), Intelligent Provisioning (standard)	
USB	8 USB 2.0 ports (2 front, 4 rear, 2 internal)	

(Base Configuration Continued)

Intel[®] 602J Chipset

(2) video ports (1 front, 1 rear)

(1) microSD card slot

(1) Trusted Platform Module (TPM) connector

BIOS Legacy mode (field configurable) or Unified Extensible Firmware Interface (UEFI) mode (default)

Rack rails and cable management arm

NOTE: PCIe slot availability is dependent on the number of processors installed. Please refer to the "Expansion slots" section for more details.

NOTE: A minimum of two processors are required. The system may have three or four processors installed.

NOTE: A minimum of two memory cartridges are required (one per processor).

NOTE: A minimum of two memory DIMMs are required per cartridge (minimum of four DIMMs per server).

NOTE: A minimum of two power supplies are required.

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

NOTE: All processor kits contain one processor. If two or more proce xxxxxx-L21 and additional processors would be xxxxxx-B21.	essors are desired, select one	
Eighteen-Core Processors		
HPE DL580 Gen9 Intel® Xeon® E7-8890v3 (2.5GHz/18-core/45MB/165W	V) FIO Processor Kit	788317-L21
HPE DL580 Gen9 Intel® Xeon® E7-8880v3 (2.3GHz/18-core/45MB/150V	V) FIO Processor Kit	788319-L21
HPE DL580 Gen9 Intel® Xeon® E7-8870v3 (2.1GHz/18-core/45MB/140W	/) FIO Processor Kit	788321-L21
HPE DL580 Gen9 Intel® Xeon® E7-8880Lv3 (2.0GHz/18-core/45MB/115	W) FIO Processor Kit	788337-L21
NOTE: This is a power optimized processor		
Sixteen-Core Processors		

HPE DL580 Gen9 Intel® Xeon® E7-8860v3 (2.2GHz/16-core/40MB/140W) FIO Processor Kit	788323-L21
HPE DL580 Gen9 Intel® Xeon® E7-8867v3 (2.5GHz/16-core/45MB/165W) FIO Processor Kit	788339-L21
NOTE: This is frequency optimized processor suited high performance computing applications	700537-LZ1
Fourteen-Core Processors	
HPE DL580 Gen9 Intel® Xeon® E7-4850v3 (2.2GHz/14-core/35MB/115W) FIO Processor Kit	788325-L21
Twelve-Core Processors	
HPE DL580 Gen9 Intel® Xeon® E7-4830v3 (2.1GHz/12-core/30MB/115W) FIO Processor Kit	788327-L21
Ten-Core Processors	
HPE DL580 Gen9 Intel® Xeon® E7-8891v3 (2.8GHz/10-core/45MB/165W) FIO Processor Kit	788333-L21
NOTE: This is a lower core, higher frequency processor for software licensing cost optimization	
HPE DL580 Gen9 Intel® Xeon® E7-4820v3 (1.9GHz/10-core/25MB/115W) FIO Processor Kit	788329-L21
Eight-Core Processors	728973-L21
HPE DL580 Gen9 Intel® Xeon® E7-4809v3 (2.0GHz/8-core/20MB/115W) FIO Processor Kit	788331-L21
Four-Core Processors	
HPE DL580 Gen9 Intel® Xeon® E7-8893v3 (3.2GHz/4-core/45MB/140W) FIO Processor Kit	788335-L21
NOTE: This is a lower core, higher frequency processor for software licensing cost optimization	

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

Memory

- LRDIMM, RDIMM are all distinct memory technologies and cannot be mixed within a server. The majority of ProLiant Gen9 servers support LRDIMM and RDIMM.
- HPE memory from previous generation servers are not gualified 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.
- 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.
- Kits described as LP include Low Power DIMMs. For more information on ProLiant Energy Efficient Features, see: http://www.hp.com/go/proliant-energy-efficient.
- Depending on the memory configuration and processor model, the memory speed may run at 2133MHz, 1866MHz, 1600MHz or 1333MHz. Please see Memory Population Table or the Online Memory Configuration Tool at: http://www.hp.com/go/ddr4config.
- HPE
 - Select one or more power supplies from Core Options-Power Supplies section below: Prior to selecting a power supply option, it is highly recommended that you review your server configuration in the
- Power Supplies

HPE Power Advisor tool to determine the right size power supply for your server configuration. The HPE Power

- Advisor is located at: http://www.hp.com/go/hppoweradvisor.
 - 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.

Step 3: Choose Additional Factory Integratable Options

HPE Unique	Select one or more Unique options from Core options section below.
Options	
	• This section may contain FIO options, please see the Unique options section below.

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

HPE I/O Expansion Select one or more Riser Kit options from Core options section below. **Options**

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

HPE Drives

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

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

HPE Flexible LOM Select a FlexibleLOM from Core options-Networking section below,

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

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

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

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

Controllers

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

 HPE Graphics
 Select one or more graphics adapter from Additional options section below.

 Options
 Image: Comparison of the section below.

 Please see the HPE Power Advisor for estimated power consumption of your individual system configuration prior to installing GPUs. The HPE Power Advisor is located at: <u>http://www.hp.com/go/hppoweradvisor</u>.

• This section may contain FIO options, please see HPE Computation & Graphics Accelerators section below.

HPE Rail Kits Select one type of rail kit from Additional options section below.

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

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

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

information.		
HPE Processors	Eighteen-Core Processors	
DL500 G9 Series	HP DL580 Gen9 Intel® Xeon® E7-8890v3 (2.5GHz/18-core/45MB/165W) Processor Kit	788317-B21
	HP DL580 Gen9 Intel® Xeon® E7-8890v3 (2.5GHz/18-core/45MB/165W) FIO Processor	788317-L21
	Kit	
	HP DL580 Gen9 Intel® Xeon® E7-8880v3 (2.3GHz/18-core/45MB/150W) Processor Kit	788319-B21
	HP DL580 Gen9 Intel® Xeon® E7-8880v3 (2.3GHz/18-core/45MB/150W) FIO Processor	788319-L21
		700704 504
	HP DL580 Gen9 Intel® Xeon® E7-8870v3 (2.1GHz/18-core/45MB/140W) Processor Kit	788321-B21
	HP DL580 Gen9 Intel® Xeon® E7-8870v3 (2.1GHz/18-core/45MB/140W) FIO Processor Kit	788321-L21
	HP DL580 Gen9 Intel® Xeon® E7-8880Lv3 (2.0GHz/18-core/45MB/115W) Processor Kit	788337-B21
	HP DL580 Gen9 Intel® Xeon® E7-8880Lv3 (2.0GHz/18-core/45MB/115W) FIO Processor Kit	788337-L21
	Sixteen-Core Processors	
	HP DL580 Gen9 Intel® Xeon® E7-8860v3 (2.2GHz/16-core/40MB/140W) Processor Kit	788323-B21
	HP DL580 Gen9 Intel® Xeon® E7-8860v3 (2.2GHz/16-core/40MB/140W) FIO Processor Kit	788323-L21
	HP DL580 Gen9 Intel® Xeon® E7-8867v3 (2.5GHz/16-core/45MB/165W) Processor Kit	788339-B21
	HP DL580 Gen9 Intel® Xeon® E7-8867v3 (2.5GHz/16-core/45MB/165W) FIO Processor Kit	788339-L21
	Fourteen-Core Processors	
	HP DL580 Gen9 Intel® Xeon® E7-4850v3 (2.2GHz/14-core/35MB/115W) Processor Kit	788325-B21
	HP DL580 Gen9 Intel® Xeon® E7-4850v3 (2.2GHz/14-core/35MB/115W) FIO Processor Kit	788325-L21
	Twelve-Core Processors	
	HP DL580 Gen9 Intel® Xeon® E7-4830v3 (2.1GHz/12-core/30MB/115W) Processor Kit	788327-B21
	HP DL580 Gen9 Intel® Xeon® E7-4830v3 (2.1GHz/12-core/30MB/115W) FIO Processor Kit	788327-L21
	Ten-Core Processors	
	HP DL580 Gen9 Intel® Xeon® E7-4820v3 (1.9GHz/10-core/25MB/115W) Processor Kit	788329-B21
	HP DL580 Gen9 Intel® Xeon® E7-4820v3 (1.9GHz/10-core/25MB/115W) FIO Processor Kit	788329-L21
	HP DL580 Gen9 Intel® Xeon® E7-8891v3 (2.8GHz/10-core/45MB/165W) Processor Kit	788333-B21
	HP DL580 Gen9 Intel® Xeon® E7-8891v3 (2.8GHz/10-core/45MB/165W) FIO Processor Kit	788333-L21
	Eight-Core Processors	
	– HP DL580 Gen9 Intel® Xeon® E7-4809v3 (2.0GHz/8-core/20MB/115W) Processor Kit	788331-B21
	HP DL580 Gen9 Intel® Xeon® E7-4809v3 (2.0GHz/8-core/20MB/115W) FIO Processor Kit	788331-L21
	Four-Core Processors	
	HP DL580 Gen9 Intel® Xeon® E7-8893v3 (3.2GHz/4-core/45MB/140W) Processor Kit	788335-B21

Core Options

	HP DL580 Gen9 Intel® Xeon® E7-8893v3 (3.2GHz/4-core/45MB/140W) FIO Processor Kit	788335-L2		
HPE Memory	NOTE: Hewlett Packard Enterprise memory from previous generation servers is 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. For additional information, please see the HPE SmartMemory QuickSpecs .			
	NOTE: LRDIMM and RDIMM are distinct memory technologies and cannot be mixed within a server. NOTE: Depending on the memory configuration and processor model, the memory speed may run at 1866MHz, 1600MHz, or 1333MHz. Please see Memory Population Table below or the Online Memory Configuration Tool at: <u>http://www.hp.com/go/ddr4config</u> .			
	Registered DIMMs (RDIMMs)			
	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 CAS-15-15-15 Registered Memory Kit	726718-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 (LRDIMMs)			
	HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726722-B21		
	HP 64GB (1x64GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit	726724-B21		
	Memory Expansion Options			
	HP DL580 Gen9 12 DDR4 DIMM Slots Memory Cartridge NOTE: Up to Eight (8) memory cartridges are supported for 96 DIMM slots. NOTE: A minimum of two memory cartridges are required (one per processor).	788360-B21		
	NOTE: A minimum of two memory DIMMs are required per cartridge (minimum of four DIMMs per server).			
HPE Optical Dri	ves HP Mobile USB Non Leaded System DVD RW Drive	701498-B21		
HPE Drives	NOTE: The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components. NOTE: Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.			
	12G SAS Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value			
	Solid State Drives HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762263-B21		
	HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	762261-B21		
	12G SAS Hot Plug SFF(2.5-inch) Midline Drives			
	HPE 1TB 12G SAS 7.2K rpm SFF (2.5in) SC Midline 1yr Warranty Hard Drive	832514-B21		
	120 CAC List Diver CEE (2 E in sh) Entermine Drives			

12G SAS Hot Plug SFF (2.5-inch) Enterprise Drives

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 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 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	785067-B21
HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759208-B21
12G SAS Hot Plug SFF (2.5-inch) SC 512e Drives	
HP 2TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765466-B21
HP 1.8TB 12G SAS 10K rpm SFF (2.5-inch) SC Enterprise 512e 3yr Warranty Hard Drive	791034-B21
HP 1TB 12G SAS 7.2K rpm SFF (2.5-inch) SC 512e 1yr Warranty Hard Drive	765464-B21
HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC 512e Enterprise 3yr Warranty Hard Drive	748387-B21
12G SAS Mixed Use Hot Plug SFF (2.5-inch) Solid State Drives	
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-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846436-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-1 SFF (2.5in) SC 3yr Wty Solid State Drive	846434-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 Write Intensive Solid State Drives	
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 Read Intensive Hot Plug SFF (2.5-inch) Solid State Drives	
HPE 3.84TB 12G SAS Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816576-B21
HP 1.92TB 12G SAS Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	802891-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
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) Enterprise Mainstream Solid State Drives	
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

QuickSpecs

HP 200GB 12G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream SC 3yr	779164-B21
Wty H2 Solid State Drive	
6G SAS Hot Plug with SmartDrive SFF (2.5-inch) Enterprise Drives	718162-B21
HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive	/ 10102-821
HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652589-B21
HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652583-B21
HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652572-B21
HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652564-B21
HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652611-B21
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652605-B21
6G SAS Hot Plug SmartDrive SFF (2.5-inch) Midline Drives	
HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652749-B21
HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652745-B21
6G SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value	
Solid State Drives	
HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739898-B21
6G SATA Value Endurance Hot Plug SFF (2.5-inch) SC Enterprise Value M1	
Solid State Drives	
HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764929-B21
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764927-B21
HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764925-B21
HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty M1 Solid State Drive	764923-B21
6G SATA Value Endurance Hot Plug SFF (2.5-inch) SC Enterprise Value G1	
Solid State Drives	
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty G1 Solid State Drive	756657-B21
6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drives	
HP 1.92TB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	817011-B21
HP 1.6TB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804631-B21
HP 960GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816995-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-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816985-B21
HP 480GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	832414-B21
HP 240GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816975-B21
HP 200GB 6G SATA Mixed Use-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804613-B21
HP 120GB 6G SATA Mixed Use-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816965-B21
6G SATA Hot Plug SFF (2.5-inch) SC Write Intensive Solid State Drives	
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
HP 400GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804665-B21
HP 200GB 6G SATA Write Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804639-B21
5G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives	
HP 3.84TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816929-B21
HP 1.92TB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816919-B21
HP 1.6TB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804605-B21
HP 960GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816909-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 480GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816899-B21
HP 480GB 6G SATA Read Intensive SFF 2.5-in SC 3yr Wty Solid State Drive	789145-B21
HP 240GB 6G SATA Read Intensive-2 SFF 2.5-in SC 3yr Wty Solid State Drive	804587-B21
HP 240GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816889-B21
HP 120GB 6G SATA Read Intensive-3 SFF 2.5-in SC 3yr Wty Solid State Drive	816879-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
HPE NVMe PCIe Mixed Use SFF (2.5 inch) Solid State Drives	
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
NOTE: To support NVMe PCIe SSDs you need to select the SSD Express Bay Ki	it (788359-B21),
maximum of 5 drives supported.	
NOTE: Hewlett Packard Enterprise has qualified the NVMe drive portfolio usin	g the Operating
System inbox drivers. For full details please see the Solid State Drive QuickSpecs: http://www8.hp.com/h20195/v2/GetHTML.aspx?docname=c04	15/.378
HPE NVMe PCIe Write Intensive SFF (2.5-inch) Solid State Drives	134378
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 PCle Write Intensive SFF 2.5-in SC2 3yr Wty Solid State Drive	736936-B21
NOTE: To support NVMe PCIe SSDs you need to select the SSD Express Bay Ki	
maximum of 5 drives supported.	n (700337 bzi),
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NOTE: Hewlett Packard Enterprise has qualified the NVMe drive portfolio usin	g me operaning
NOTE: Hewlett Packard Enterprise has qualified the NVMe drive portfolio usin System inbox drivers. For full details please see the Solid State Drive	g me operaning
System inbox drivers. For full details please see the Solid State Drive	
System inbox drivers. For full details please see the Solid State Drive QuickSpecs: http://www8.hp.com/h20195/v2/GetHTML.aspx?docname=c04	
System inbox drivers. For full details please see the Solid State Drive QuickSpecs: <u>http://www8.hp.com/h20195/v2/GetHTML.aspx?docname=c04</u> HPE NVMe PCIe Read Intensive SFF (2.5 inch) Solid State Drives	<u>154378</u>
System inbox drivers. For full details please see the Solid State Drive QuickSpecs: http://www8.hp.com/h20195/v2/GetHTML.aspx?docname=c04 HPE NVMe PCIe Read Intensive SFF (2.5 inch) Solid State Drives 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: To support NVMe PCIe SSDs you need to select the SSD Express Bay Ki	154378 764906-B21 764904-B21
System inbox drivers. For full details please see the Solid State Drive QuickSpecs: http://www8.hp.com/h20195/v2/GetHTML.aspx?docname=c04 HPE NVMe PCIe Read Intensive SFF (2.5 inch) Solid State Drives 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: To support NVMe PCIe SSDs you need to select the SSD Express Bay Ki maximum of 5 drives supported.	154378 764906-B21 764904-B21 it (788359-B21),
System inbox drivers. For full details please see the Solid State Drive QuickSpecs: http://www8.hp.com/h20195/v2/GetHTML.aspx?docname=c04 HPE NVMe PCIe Read Intensive SFF (2.5 inch) Solid State Drives 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: To support NVMe PCIe SSDs you need to select the SSD Express Bay Ki maximum of 5 drives supported. NOTE: Hewlett Packard Enterprise has qualified the NVMe drive portfolio usin	154378 764906-B21 764904-B21 it (788359-B21),
System inbox drivers. For full details please see the Solid State Drive QuickSpecs: http://www8.hp.com/h20195/v2/GetHTML.aspx?docname=c04 HPE NVMe PCIe Read Intensive SFF (2.5 inch) Solid State Drives 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: To support NVMe PCIe SSDs you need to select the SSD Express Bay Ki maximum of 5 drives supported.	154378 764906-B21 764904-B21 it (788359-B21), g the Operating

	HP DL580 Gen9 NVMe 5 Solid State Drive Express Bay Enablement Kit	788359-B21
	HP ProLiant DL580 5 Small Form Factor Drive Backplane Cage Kit	739405-B21
	HP Small Form Factor Hard Drive Blank Kit	666987-B21
HPE Networking	Gigabit Ethernet Adapters	
	HP Ethernet 1Gb 4-port 331T Adapter	647594-B21
	HP Ethernet 1Gb 2-port 332T Adapter	615732-B21
	HP Ethernet 1Gb 2-port 361T Adapter	652497-B21
	HP Ethernet 1Gb 4-port 366T Adapter	811546-B21
	10 Gigabit Ethernet adapters	
	HP Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
	HP Ethernet 10Gb 2-port 546SFP+ Adapter	779793-B21
	HP Ethernet 10Gb 2-port 557SFP+ Adapter	788995-B21
	HP Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
	HP Ethernet 10Gb 2-port 530T Adapter	656596-B21
	HP Ethernet 10Gb 2-port 561T Adapter	716591-B21
	HPE Ethernet 10Gb 2-port 562SFP+ Adapter	727055-B21
	NOTE: A minimum of two Gigabytes (2GB) of server memory is required per eac	h adapter.
	FlexibleLOM Adapters	
	HP Ethernet 1Gb 4-port 331FLR Adapter	629135-B22
	HP Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
	HP FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
	HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
	NOTE: This adapter does not support FCOE Boot from SAN functionality on VMWare and FCOE functionality with RHEL 5.9.	
	HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21
	HP Ethernet 10Gb 2-port 561FLR-T Adapter	700699-B21
	HP Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	779799-B21
	HPE FlexFabric 10Gb 2-port 556FLR-T Adapter	794525-B21
	HP FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter	727060-B21
	HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	727054-B21
	NOTE: Wake-On-LAN not supported with FlexibleLOMs on DL580 Gen9.	
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: <u>http://www.hp.com/go/ProLiantNICs</u> .	
HPE InfiniBand	HP InfiniBand FDR 2-port 545QSFP Adapter NOTE: Legacy and UEFI modes are supported.	702211-B21
	HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter NOTE: UEFI and Legacy modes are supported with Ethernet and Infiniband functionality.	764284-B21
	HP InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter NOTE: UEFI and Legacy modes are supported with Ethernet and Infiniband functionality.	764285-B21

	HP InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter	764286-B21
	HPE InfiniBand EDR/Ethernet 100Gb 1-port 840QSFP28 Adapter	825110-B21
	HPE InfiniBand EDR/Ethernet 100Gb 2-port 840QSFP28 Adapter	825111-B21
HPE Power	HPE Common Slot Platinum Plus Power Supply Kits	
Supplies	HP 1500W Common Slot Platinum Plus Hot Plug Power Supply Kit	684532-B21
	HP 1500W Common Slot 48VDC Hot Plug Power Supply Kit	746708-B21
	HP 1200W Common Slot Platinum Hot Plug Power Supply Kit	748287-B21
	HP 1200W Common Slot Platinum Plus Hot Plug Power Supply Kit	656364-B21
	NOTE: 94% efficiency with support for HPE Power Discovery Services.	
	is run to determine the right size power supply for your server configuration. The located at: http://www.hp.com/go/hppoweradvisor. NOTE: Minimum of two (2) power supplies are required. NOTE: All power supplies in a server should match. Mixing Power Supplies is not NOTE: Option Kits contain the specified power supply and a PDU IEC cable. NOTE: 1500W Power Supplies only support High Line Voltage. NOTE: HPE ProLiant servers ship with an IEC-IEC power cord used for rack moun Distribution Units (PDUs). For a full list of optional Hewlett Packard Enterprise p to http://www.hp.com/products/powercords.	supported. hting with Power
HPE Computation	NVIDIA Tesla K40C 12GB Computational Accelerator	753960-B21
-	NOTE: Up to 4 cards are supported on the DL580 Gen9. Supporting multiple	
-	number of cards on the DL580 Gen9 blocks some active IO cards as follows	
-	number of cards on the DL580 Gen9 blocks some active IO cards as follows due to space constraints:	
-	number of cards on the DL580 Gen9 blocks some active IO cards as follows due to space constraints: For 2P config: Max of 2 double-wide cards are supported on slot 6 and slot 9	
-	number of cards on the DL580 Gen9 blocks some active IO cards as follows due to space constraints: For 2P config: Max of 2 double-wide cards are supported on slot 6 and slot 9 (slot 8 is blocked)	
-	number of cards on the DL580 Gen9 blocks some active IO cards as follows due to space constraints: For 2P config: Max of 2 double-wide cards are supported on slot 6 and slot 9	
and Graphics Accelerators	number of cards on the DL580 Gen9 blocks some active IO cards as follows due to space constraints: For 2P config: Max of 2 double-wide cards are supported on slot 6 and slot 9 (slot 8 is blocked) For 3P config: Max of 3 double-wide cards are supported on slot 3, slot 6 and slot 9 (slot 5 and slot 8 are blocked) For 4P config: Max of 5 double wide cards are supported on Slot 1, Slot 3, Slot	
-	number of cards on the DL580 Gen9 blocks some active IO cards as follows due to space constraints: For 2P config: Max of 2 double-wide cards are supported on slot 6 and slot 9 (slot 8 is blocked) For 3P config: Max of 3 double-wide cards are supported on slot 3, slot 6 and slot 9 (slot 5 and slot 8 are blocked) For 4P config: Max of 5 double wide cards are supported on Slot 1, Slot 3, Slot 2, Slot 6 and Slot 9 (slot 5 and slot 8 are blocked).	
-	number of cards on the DL580 Gen9 blocks some active IO cards as follows due to space constraints: For 2P config: Max of 2 double-wide cards are supported on slot 6 and slot 9 (slot 8 is blocked) For 3P config: Max of 3 double-wide cards are supported on slot 3, slot 6 and slot 9 (slot 5 and slot 8 are blocked) For 4P config: Max of 5 double wide cards are supported on Slot 1, Slot 3, Slot 2, Slot 6 and Slot 9 (slot 5 and slot 8 are blocked). NOTE: HPE DL580/DL585/DL980 Power Cable Kit (631660-B21) is required	
-	number of cards on the DL580 Gen9 blocks some active IO cards as follows due to space constraints: For 2P config: Max of 2 double-wide cards are supported on slot 6 and slot 9 (slot 8 is blocked) For 3P config: Max of 3 double-wide cards are supported on slot 3, slot 6 and slot 9 (slot 5 and slot 8 are blocked) For 4P config: Max of 5 double wide cards are supported on Slot 1, Slot 3, Slot 2, Slot 6 and Slot 9 (slot 5 and slot 8 are blocked). NOTE: HPE DL580/DL585/DL980 Power Cable Kit (631660-B21) is required for Graphics cards. Each cable kit has two 8-pin connectors (one 150W and	
-	number of cards on the DL580 Gen9 blocks some active IO cards as follows due to space constraints: For 2P config: Max of 2 double-wide cards are supported on slot 6 and slot 9 (slot 8 is blocked) For 3P config: Max of 3 double-wide cards are supported on slot 3, slot 6 and slot 9 (slot 5 and slot 8 are blocked) For 4P config: Max of 5 double wide cards are supported on Slot 1, Slot 3, Slot 2, Slot 6 and Slot 9 (slot 5 and slot 8 are blocked). NOTE: HPE DL580/DL585/DL980 Power Cable Kit (631660-B21) is required for Graphics cards. Each cable kit has two 8-pin connectors (one 150W and other 225W) and can support up to two cards. For three cards, two cable kits	
-	number of cards on the DL580 Gen9 blocks some active IO cards as follows due to space constraints: For 2P config: Max of 2 double-wide cards are supported on slot 6 and slot 9 (slot 8 is blocked) For 3P config: Max of 3 double-wide cards are supported on slot 3, slot 6 and slot 9 (slot 5 and slot 8 are blocked) For 4P config: Max of 5 double wide cards are supported on Slot 1, Slot 3, Slot 2, Slot 6 and Slot 9 (slot 5 and slot 8 are blocked). NOTE: HPE DL580/DL585/DL980 Power Cable Kit (631660-B21) is required for Graphics cards. Each cable kit has two 8-pin connectors (one 150W and	
-	number of cards on the DL580 Gen9 blocks some active IO cards as follows due to space constraints: For 2P config: Max of 2 double-wide cards are supported on slot 6 and slot 9 (slot 8 is blocked) For 3P config: Max of 3 double-wide cards are supported on slot 3, slot 6 and slot 9 (slot 5 and slot 8 are blocked) For 4P config: Max of 5 double wide cards are supported on Slot 1, Slot 3, Slot 2, Slot 6 and Slot 9 (slot 5 and slot 8 are blocked). NOTE: HPE DL580/DL585/DL980 Power Cable Kit (631660-B21) is required for Graphics cards. Each cable kit has two 8-pin connectors (one 150W and other 225W) and can support up to two cards. For three cards, two cable kits are required. For 4 cards, 2 cable kits are required. The cards pull up to 75W of	
-	number of cards on the DL580 Gen9 blocks some active IO cards as follows due to space constraints: For 2P config: Max of 2 double-wide cards are supported on slot 6 and slot 9 (slot 8 is blocked) For 3P config: Max of 3 double-wide cards are supported on slot 3, slot 6 and slot 9 (slot 5 and slot 8 are blocked) For 4P config: Max of 5 double wide cards are supported on Slot 1, Slot 3, Slot 2, Slot 6 and Slot 9 (slot 5 and slot 8 are blocked). NOTE: HPE DL580/DL585/DL980 Power Cable Kit (631660-B21) is required for Graphics cards. Each cable kit has two 8-pin connectors (one 150W and other 225W) and can support up to two cards. For three cards, two cable kits are required. For 4 cards, 2 cable kits are required. The cards pull up to 75W of power from the IO slot and the rest from the auxiliary power connectors. NOTE: Supported at Gen2 speeds.	J0G92A
-	number of cards on the DL580 Gen9 blocks some active IO cards as follows due to space constraints: For 2P config: Max of 2 double-wide cards are supported on slot 6 and slot 9 (slot 8 is blocked) For 3P config: Max of 3 double-wide cards are supported on slot 3, slot 6 and slot 9 (slot 5 and slot 8 are blocked) For 4P config: Max of 5 double wide cards are supported on Slot 1, Slot 3, Slot 2, Slot 6 and Slot 9 (slot 5 and slot 8 are blocked). NOTE: HPE DL580/DL585/DL980 Power Cable Kit (631660-B21) is required for Graphics cards. Each cable kit has two 8-pin connectors (one 150W and other 225W) and can support up to two cards. For three cards, two cable kits are required. For 4 cards, 2 cable kits are required. The cards pull up to 75W of power from the IO slot and the rest from the auxiliary power connectors.	J0G92A
-	number of cards on the DL580 Gen9 blocks some active IO cards as follows due to space constraints: For 2P config: Max of 2 double-wide cards are supported on slot 6 and slot 9 (slot 8 is blocked) For 3P config: Max of 3 double-wide cards are supported on slot 3, slot 6 and slot 9 (slot 5 and slot 8 are blocked) For 4P config: Max of 5 double wide cards are supported on Slot 1, Slot 3, Slot 2, Slot 6 and Slot 9 (slot 5 and slot 8 are blocked). NOTE: HPE DL580/DL585/DL980 Power Cable Kit (631660-B21) is required for Graphics cards. Each cable kit has two 8-pin connectors (one 150W and other 225W) and can support up to two cards. For three cards, two cable kits are required. For 4 cards, 2 cable kits are required. The cards pull up to 75W of power from the IO slot and the rest from the auxiliary power connectors. NOTE: Supported at Gen2 speeds. HP NVIDIA Quadro M6000 Graphics Accelerator	J0G92A
-	number of cards on the DL580 Gen9 blocks some active IO cards as follows due to space constraints: For 2P config: Max of 2 double-wide cards are supported on slot 6 and slot 9 (slot 8 is blocked) For 3P config: Max of 3 double-wide cards are supported on slot 3, slot 6 and slot 9 (slot 5 and slot 8 are blocked) For 4P config: Max of 5 double wide cards are supported on Slot 1, Slot 3, Slot 2, Slot 6 and Slot 9 (slot 5 and slot 8 are blocked). NOTE: HPE DL580/DL585/DL980 Power Cable Kit (631660-B21) is required for Graphics cards. Each cable kit has two 8-pin connectors (one 150W and other 225W) and can support up to two cards. For three cards, two cable kits are required. For 4 cards, 2 cable kits are required. The cards pull up to 75W of power from the IO slot and the rest from the auxiliary power connectors. NOTE: Supported at Gen2 speeds. HP NVIDIA Quadro M6000 Graphics Accelerator NOTE: Only four M6000 graphic cards are supported on DL580 Gen9. NOTE: If any HPE ProLiant server is configured with an NVIDIA Graphics Processor Unit (GPU), it must have less than 1 TB of server host memory. If	J0G92A
-	number of cards on the DL580 Gen9 blocks some active IO cards as follows due to space constraints: For 2P config: Max of 2 double-wide cards are supported on slot 6 and slot 9 (slot 8 is blocked) For 3P config: Max of 3 double-wide cards are supported on slot 3, slot 6 and slot 9 (slot 5 and slot 8 are blocked) For 4P config: Max of 5 double wide cards are supported on Slot 1, Slot 3, Slot 2, Slot 6 and Slot 9 (slot 5 and slot 8 are blocked). NOTE: HPE DL580/DL585/DL980 Power Cable Kit (631660-B21) is required for Graphics cards. Each cable kit has two 8-pin connectors (one 150W and other 225W) and can support up to two cards. For three cards, two cable kits are required. For 4 cards, 2 cable kits are required. The cards pull up to 75W of power from the IO slot and the rest from the auxiliary power connectors. NOTE: Supported at Gen2 speeds. HP NVIDIA Quadro M6000 Graphics Accelerator NOTE: If any HPE ProLiant server is configured with an NVIDIA Graphics Processor Unit (GPU), it must have less than 1 TB of server host memory. If the memory equals or exceeds 1 TB, the GPU options will not function	J0G92A
-	number of cards on the DL580 Gen9 blocks some active IO cards as follows due to space constraints: For 2P config: Max of 2 double-wide cards are supported on slot 6 and slot 9 (slot 8 is blocked) For 3P config: Max of 3 double-wide cards are supported on slot 3, slot 6 and slot 9 (slot 5 and slot 8 are blocked) For 4P config: Max of 5 double wide cards are supported on Slot 1, Slot 3, Slot 2, Slot 6 and Slot 9 (slot 5 and slot 8 are blocked). NOTE: HPE DL580/DL585/DL980 Power Cable Kit (631660-B21) is required for Graphics cards. Each cable kit has two 8-pin connectors (one 150W and other 225W) and can support up to two cards. For three cards, two cable kits are required. For 4 cards, 2 cable kits are required. The cards pull up to 75W of power from the IO slot and the rest from the auxiliary power connectors. NOTE: Supported at Gen2 speeds. HP NVIDIA Quadro M6000 Graphics Accelerator NOTE: Only four M6000 graphic cards are supported on DL580 Gen9. NOTE: If any HPE ProLiant server is configured with an NVIDIA Graphics Processor Unit (GPU), it must have less than 1 TB of server host memory. If	J0G92A

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

HPE Insight	HPE Insight Control		
Software	HP Insight Control including 1yr 24x7 Technical Support and Updates Single Server License	C6N27A	
	HP Insight Control including 1yr 24x7 Technical Support and Updates Electronic License	C6N28ABE	
	HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO License	C6N36A	
	HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle FIO Electronic License	C6N36ABE	
	HP Insight Management Media Kit	C6N31A	
	 NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key. NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HPE Software Technical Support and Update Service. NOTE: Licenses ship without media. The HPE Insight Control Media Kit can be ordered separately, or can be downloaded at http://www.bp.com/go/jocistburgdates 		
	can be downloaded at: <u>http://www.hp.com/go/insightupdates</u> . NOTE: For additional license options please see the <u>HPE Insight Control Quicks</u>	Specs.	

HPE Converged Infrastructure Management Software	 HPE OneView Advanced (with HPE iLO Advanced) NOTE: Full licenses of HPE OneView Advanced also provide the right-to-use HPE Insight Control without additional charge. NOTE: Server provisioning (via 'HPE Insight Control server provisioning') is licensed as part of HPE OneView Advanced and provides multi-server OS and driver provisioning. Media kit #BD883A can be ordered for a physical copy of this software (USB flash drive). NOTE: Licenses ship without media. The HPE OneView Media Kit can be ordered separately, or can be 		
	downloaded at: http://www.hp.com/go/oneview		
	NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple	licenses with a	
	single activation key.		
	HP OneView Media Kit Phys No Lic	E5Y37A	
	HP OneView incl 3yr 24x7 Supp Phys 1 Svr Lic	E5Y34A	
	HP OneView incl 3yr 24x7 Supp Flex Qty E-LTU	E5Y35AAE	
	HPE OneView Advanced (without HPE iLO Advanced)		
	HP OneView w/o iLO including 3yr 24x7 Support 1 Server LTU	P8B24A	
	HP OneView w/o iLO including 3yr 24x7 Support Flex Quantity E-LTU	P8B26AAE	
	HP OneView w/o iLO including 3yr 24x7 Support FIO 1 Server LTU	P8B31A	
	HP OneView for ProLiant DL Server incl 3yr 24x7 Supp FIO Bundle Physical 1 Svr	E5Y43A	
	Lic		
	HP Operations Analytics for HP OneView LTU	K8G29A	
	HP Operations Analytics for HP OneView E-LTU	K8G29AAE	
	NOTE: HPE OneView is supported in Legacy BIOS mode only.		
	Please see the HPE OneView QuickSpecs for Technical Specifications and		
	additional information.		

HPE iLO Advanc	ed HPE iLO Advanced	
License	HP iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU	E6U64ABE
	HP iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU	E6U59ABE
	HP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and Updates	BD505A
	HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License	512485-B21
HPE PCle	Value Endurance (VE) PCIe Workload Accelerators	
Workload	HP 6.4TB FH/HL Value Endurance (VE) PCIe Workload Accelerator	763840-B21
Accelerator	HP 3.2TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763838-B21
Options	HP 1.6TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763836-B21
	HP 1.3TB HH/HL Value Endurance (VE) PCIe Workload Accelerator	763834-B21
	Light Endurance (LE) PCIe Workload Accelerators	
	HP 5.2TB FH/HL Light Endurance (LE) PCIe Workload Accelerator	775672-B21
	HP 2.6TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775670-B21
	HP 1.3TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775668-B21
	HP 1.0TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775666-B21
	HPE Read Intensive PCIe Workload Accelerator	
	HPE 6.4TB Read Intensive-2 FH/HL PCIe Workload Accelerator	831739-B21
	HPE 3.2TB Read Intensive-2 HH/HL PCIe Workload Accelerator	831737-B21
	HPE 1.6TB Read Intensive-2 HH/HL PCIe Workload Accelerator	831735-B21
	HPE 1.3TB Read Intensive-2 HH/HL PCIe Workload Accelerator	831733-B21
	NVME PCIe Workload Accelerators	
	HP 2.0TB NVMe Mixed Use HH/HL PCIe Workload Accelerator	803204-B21
	HP 1.6TB NVMe Mixed Use HH/HL PCIe Workload Accelerator	803202-B21
	HP 1.6TB NVMe Write Intensive HH/HL PCIe Workload Accelerator	803197-B21
	HP 800GB NVMe Mixed Use HH/HL PCIe Workload Accelerator	803200-B21
	HP 800GB NVMe Write Intensive HH/HL PCIe Workload Accelerator	803195-B21
	NOTE: Both Legacy and UEFI BIOS modes are supported. Please see the HPE P	
	Accelerators for ProLiant Servers QuickSpecs for Technical Specifications and	d additional informa
HPE Security	HP Trusted Platform Module 2.0 Kit	745823-B21

NOTE: HPE Trusted Platform Module 2.0 Option (745823-B21) works with Gen9 servers with UEFI Mode not Legacy Mode. It is not compatible with HPE ProLiant Gen8 servers or earlier generation variants. HPE Gen9 servers purchased earlier may need the latest firmware update to be compatible with the TPM 2.0 Option. The earlier HPE Trusted Platform Module Option (488069-B21) is the TPM 1.2 version, which is also available however TPM 2.0 has newer technology standards incorporated. The TPM 1.2 compatible server platforms include Gen8 and Gen9 servers. HPE server systems can have a TPM module (of any type) installed only once. It cannot be replaced with any other TPM module.

HP Smart Array P430/2GB FBWC 12Gb 1-port Int SAS Controller	698529-B21
HP Smart Array P430/4GB FBWC 12Gb 1-port Int SAS Controller	698530-B21
NOTE: Please see the HPE Smart Array P430 Controller QuickSpecs for	
Technical Specifications and additional information.	
HP Smart Array P431/2GB FBWC 12Gb 2-ports Ext SAS Controller	698531-B21
HP Smart Array P431/4GB FBWC 12Gb 2-ports Ext SAS Controller	698532-B21
NOTE: Please see the HPE Smart Array P431 Controller QuickSpecs for	
Technical Specifications and additional information.	
HP Smart Array P830/4GB FBWC 12Gb 2-ports Int SAS Controller	698533-B21
NOTE: Please see the HPE Smart Array P830 Controller QuickSpecs for	
Technical Specifications and additional information.	
NOTE: A maximum of four HPE Smart Array Controllers (including embedded installed.	controller) can be
HPE Smart Host Bus Adapters	
HP H240 12Gb 2-ports Int Smart Host Bus Adapter	726907-B21
NOTE: Please see the HPE H240 Smart Host Bus Adapter QuickSpecs for	
Technical Specifications and additional information.	
HP H241 12Gb 2-ports Ext Smart Host Bus Adapter	726911-B21
NOTE: Please see the HPE H241 Smart Host Bus Adapter QuickSpecs for	
Technical Specifications and additional information.	
NOTE: For more information about HPE SmartCache, go to: http://www.hp.co	om/go/smartcache
NOTE: Both Legacy and UEFI modes are supported.	

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

see: <u>http://www.hp.com/go/tape</u>. For hardware and software compatibility of HPE tape backup products see: <u>http://www.hp.com/storage/SPOCK</u> and <u>http://www.hp.com/go/ebs</u>. **NOTE:** For Internal drives to be connected to DL servers please make sure that you order rack mount

kits as well.

HP StoreEver LTO-4 Ultrium 1760 SAS (1) in 1U Rack-mount Kit	EH946C
HPE StoreEver LTO-7 Ultrium 15000 External Tape Drive	BB874A
HPE StoreEver LTO-7 Ultrium 15000 Internal Tape Drive	BB873A
HP StoreEver LTO-6 Ultrium 6650 SAS External Tape Drive	EH964A
HP StoreEver LTO-6 Ultrium 6250 Tape Drive in 1U Rack-mount Kit	COL99A
HP StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970A
HP StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in 1U Rack-mount	EJ014B
HP StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive	EH958B
HP StoreEver LTO-5 Ultrium 3280 SAS External Tape Drive	EH900B
HP StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive	EH920B
HP StoreEver LTO-3 Ultrium 920 SAS External Tape Drive	EH848B
HP StoreEver 1U SAS Rack-mount Kit	AE459B
HPE DAT Autoloader	
HPE StoreEver 1/8 G2 LTO-6 Ultrium 6250 Fibre Channel Tape Autoloader	COH19A
HPE MSL2024 Tape Library	
HPE StoreEver MSL2024 0-drive Tape Library	AK379A
HPE MSL4048 Tape Library	
HPE StoreEver MSL4048 0-drive Tape Library	AK381A

	HPE StoreEver MSL6480	
	HPE StoreEver MSL6480 Scalable Base Module	QU625A
	HPE StoreEver MSL6480 Scaleable Expansion Module	QU626A
	NOTE: Please see the HPE StoreEver MSL6480 Tape Library QuickSpecs for	
	Technical Specifications and additional information.	
HPE Disk Backup	HP D3700 Enclosure HP D3600 Enclosure	QW967A QW968A
	NOTE: For the complete range of RDX drives and media see: <u>http://www.hp.com</u> ,	
	and software compatibility of HPE disk backup products see: <u>http://www.hp.com</u>	-
	NOTE: For Internal drives to be connected to DL servers please make sure that yo as well.	-
HPE Storage	HPE Converged Network Adapters	
Options	HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter	N3U52A
	HP StoreFabric CN1100R Dual Port Converged Network Adapter	QW990A
	NOTE: FCOE boot from SAN is not supported with VMWare.	
	HPE StoreFabric CN1200E 10GBASE-T Dual Port Converged Network Adapter	N3U51A
	HP StoreFabric CN1200E 10Gb Converged Network Adapter	E7Y06A
	NOTE: Both UEFI and Legacy mode are supported.	
	Storage Fibre Channel HBA	
	NOTE: The following is a list of all Fibre Channel Host Bus Adapters for Windows	and Linux. For
	detailed compatibility information please	
	see: http://h18006.www1.hp.com/storage/saninfrastructure/hba.html.	
	QLogic Fibre Channel HBAs	
	HP 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AK344A
	HP 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ764A
	HPE StoreFabric 84Q 4-port 8Gb Fibre Channel Host Bus Adapter	P9D91A
	HP StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter	QW971A
	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	P9D93A
	HP StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter	QW972A
	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	P9D94A
	Emulex Fibre Channel HBAs	
	HP 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AJ762B
	HP 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ763B
	HP StoreFabric 84E 4-port 8Gb Fibre Channel Host Bus Adapter	E7Y63A
	HP StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter	C8R38A C8R39A
	HP StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter	Сокола
HPE Disk Storage	Disk Enclosures	

Systems	HP D6000 Dual I/O Module Disk Enclosure	QQ695A
	HP D6000 w/70 3TB 6G SAS 7.2K LFF Dual port MDL HDD 210TB Bundle	QQ700A
	HP D6000 w/35 3TB 6G SAS 7.2K LFF Dual port MDL HDD 105TB Bundle	QQ699A
	HP D6000 w/70 2TB 6G SAS 7.2K LFF Dual port MDL HDD 140TB Bundle	QQ698A
	HP D6000 w/35 2TB 6G SAS 7.2K LFF Dual port MDL HDD 70TB Bundle	QQ697A

н	P D6000 w/70 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 280TB Bundle	F7W31A
		E/WORA
H	P D6000 w/35 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 140TB Bundle	E7W3OA
H	P D6000 w/70 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 560TB	MOT59A
Βι	Indle	
H	P D6000 w/70 6TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 420TB	MOT57A
Βι	Indle	
H	P D6000 w/35 8TB 12G SAS 7.2K LFF (3.5in) Dual Port MDL HDD 280TB Bundle	MOT58A
N	DTE: Please see the <u>HPE D6000 Disk Enclosure QuickSpecs</u> for Technical	
Sp	pecifications and additional information.	
H	P D2600 w/12 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 48TB Bundle	E7W32A
N	DTE: Please see the HPE D2000 Disk Enclosures QuickSpecs for Technical	
Sp	pecifications and additional information.	
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HPE Data Center

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HPE Advanced Series Racks	
HPE 11648 1075mm Pallet Universal Ra	ack

	HPE 11648 1075mm Pallet Universal Rack	H6J87A
I	HPE 11648 1075mm Shock Universal Rack	H6J88A
I	HPE 11642 1075mm Pallet Universal Rack	H6J65A
I	HPE 11642 1075mm Shock Universal Rack	H6J66A
ł	HPE 11642 1200mm Pallet Universal Rack	H6J67A
ł	HPE 11642 1200mm Shock Universal Rack	H6J68A
ł	HPE 11636 1075mm Pallet Universal Rack	H6J77A
I	HPE 11636 1075mm Shock Universal Rack	H6J78A
ł	HPE 11622 G2 1075mm Pallet Universal Rack	H6J83A
ł	HPE 11622 G2 1075mm Shock Universal Rack	H6J84A
I	HPE 11614 1075mm Shock Universal Rack	H6J82A
I	NOTE: Please see the HPE Advanced Series Racks QuickSpecs for	
i	information on additional racks options and rack specifications.	
	HPE Enterprise Series Racks	
ł	HPE 647 1075mm Pallet Intelligent Series Rack	BW911A
ł	HPE 647 1075mm Shock Intelligent Series Rack	BW912A
ł	HPE 647 1200mm Pallet Intelligent Series Rack	BW913A
ł	HPE 647 1200mm Shock Intelligent Series Rack	BW914A
	HPE 642 1075mm Pallet Intelligent Series Rack	BW903A
ł	HPE 642 1075mm Shock Intelligent Series Rack	BW904A
ł	HPE 642 1200mm Pallet Intelligent Series Rack	BW907A
ł	HPE 642 1200mm Shock Intelligent Series Rack	BW908A
ł	HPE 636 1075mm Pallet Intelligent Series Rack	BW895A
ł	HPE 636 1075mm Shock Intelligent Series Rack	BW896A
ł	HPE 842 1075mm Pallet Intelligent Series Rack	BW917A
ł	HPE 842 1075mm Shock Intelligent Series Rack	BW918A
I	NOTE: Please see the HPE Enterprise Series Racks QuickSpecs for information	
C	on additional racks options and rack specifications.	
	HPE Standard Series Rack	
ł	HPE V142 1075mm deep Pallet 100 series Rack	AF046A
	NOTE: Please see the HPE Standard Series Rack QuickSpecs for information	

HPE Power	HPE Basic Power Distribution Units (PDU)	
Distribution Units	HPE Basic 1.9kVA/L5-20P 16A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU	H5M54A
(PDUs)	HPE Basic 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) 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 7.3kVA/60309 5-wire 32A/230V Outlets (20) C13/Vertical INTL PDU	H5M68A
	HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13/Vertical NA/JP PDU	H5M61A
	HPE Basic 4.9kVA/L6-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU	H5M59A
	HPE Basic 7.3kVA/60309 3-wire 32A/230V Outlets (24) C13 (6) C19/Vertical INTL PDU	H5M70A
	HPE Basic 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (6) C19/Vertical NA PDU	H5M60A
	HPE Basic 11kVA/60309 63A 3-wire 48A/230V Outlets (30) C13 (6) C19/Vertical INTL PDU	H5M71A
	HPE Basic 9.2kVA/50A Terminal Block 40A/230V Outlets (30) C13 (6) C19/Vertical WW PDU	H5M75A
	HPE Basic 3Ph 5.7kVA/ L21-20P 16A/120-208V Outlets (24) C13 (3) 5-20R/Vertical NA/JP PDU	H5M63A
	HPE Basic 3Ph 8.6kVA/L21-30P 24A/120-208V Outlets (24) C13 (3) C19 (3) 5- 20R/Vertical NA/JP PDU	H5M64A
	HPE Basic 3Ph 8.6kVA/L15-30P 24A/208V Outlets (24) C13 (6) C19/Vertical NA/JP PDU	H5M62A
	HPE Basic 3Ph 11kVA/60309 5-wire 16A/230V Outlets (24) C13 (6) C19/Vertical INTL PDU	H5M72A
	HPE Basic 3Ph 11kVA/60309 5-wire 16A/230V Outlets (36) C13 (6) C19/Vertical INTL PDU	H5M73A
	HPE Basic 3Ph 11kVA/60309 16A/240V Outlets (36) C13 (6) C19/Vertical NA PDU	H5M67A
	HPE Basic Modular 2.8kVA/L5-30P 24A/120V Outlets (4) C19/Horizontal NA/JP PDU	252663-D71
	HPE Basic Modular 4.9kVA/L6-30P 24A/208V Outlets (4) C19/Horizontal NA/JP Core Only PDU	252663-D74
	HPE Basic Modular 8.3kVA/CS8265C 40A/208V Outlets (4) C19/Horizontal NA/JP PDU	252663-D75
	HPE Basic Modular 7.3kVA/60309 3-wire 32A/230V Outlets (4) C19/Horizontal INTL Core Only PDU	252663-B33
	HPE Basic Modular 9.2kVA/60309 63A 3-wire 40A/230V Outlets (4) C19/Horizontal INTL PDU	252663-B34
	HPE Basic Modular 3Ph 8.6kVA/L15-30P 24A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF512A
	HPE Basic Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU	AF513A
	HPE Basic Modular 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF519A
	HPE Basic Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF511A

HPE Basic Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU	AF518A
HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09A
NOTE: Please see the HPE Basic Power Distribution Units (PDU) QuickSpecs	113/00//1
for information on additional options and product specifications.	
HPE Metered Power Distribution Units (PDU)	
HPE Metered 2.8kVA/L5-30P 24A/120V Outlets (12) 5-20R/Horizontal NA/JP PDU	D9N43A
HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (12) C13/Horizontal WW PDU	D9N46A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Horizontal NA/JP PDU	D9N44A
HPE Metered 3.6kVA/60320 C20 Detachable 16A/230V Outlets (16) C13/Vertical WW PDU	D9N45A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (12) C13/Vertical NA/JP PDU	G9Z05A
HPE Metered 7.3kVA/60309 3-wire 32A/230V Outlets (12) C13/Vertical INTL PDU	G9Z06A
HPE Metered 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU	D9N47A
HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlets (20) C13 (4) C19/Vertical INTL PDU	D9N48A
HPE Metered 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (3) C19/Vertical NA/JP PDU	D9N51A
HPE Metered 3Ph 5.7kVA/L21-20P 16A/120-208V Outlets (13) C13 (3)5- 20R/Vertical NA/JP PDU	D9N52A
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 3Ph 11kVA/60309 5-wire 16A/230V Outlets (18) C13 (3) C19/Vertical INTL PDU	D9N55A
HPE Metered 8.3kVA/CS8265C 40A/208V Outlets (30) C13 (3) C19/Vertical NA PDU	D9N49A
HPE Metered 7.3kVA/60309 32A 3-wire/230V Outlets (32) C13 (4) C19/Vertical INTL PDU	D9N50A
HPE Metered 3Ph 11kVA/60309 5-wire 16A/230V Outlets (30) C13 (3) C19/Vertical INTL PDU	D9N57A
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 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 22kVA/60309 5-wire 32A/230V Outlets (12) C13 (12) C19/Vertical INTL PDU	D9N60A
HPE Metered 3Ph 22kVA/60309 5-wire 32A/230V Outlets (30) C13 (3) C19/Vertical INTL PDU	D9N56A

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 19.9kVA/L22-30P 24A/277V Outlets (30) RF-203P-HP/Vertical NA PDU	D9N63A
HPE Metered 3Ph 22kVA/60309 5-wire WT 32A/230V Outlets (12) C13 (12) C19/Vertical INTL PDU	G9Z08A
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 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF533A
HPE Intelligent Modular 3Ph 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU	AF523A
HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU	AF525A
HPE Intelligent Modular 3Ph 11kVA/60309 5-wire 16A/230V Outlets (6) C19/Horizontal INTL PDU	AF526A
HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU	AF527A
HPE Intelligent Modular 3Ph 11kVA/L22-20P 16A/240V Outlets (6) C19/Horizontal NA/JP PDU	AF900A
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 3Ph 17.3kVA/IEC 60309 30A 5-wire 24A/240V (12) C19/Horizontal NA/JP PDU	AF537A
HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (12) C19/Horizontal INTL PDU	AF538A
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 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU Kit	AF534A
HP 5xC13 Intelligent PDU Extension Bar G2 Kit	AF547A
HP 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar	AF528A
NOTE: Please see the HPE Intelligent Power Distribution Unit (PDU) QuickSpecs	
for information on additional options and product specifications.	
HPE Metered and Switched Power Distribution Units (PDU)	

HPE Metered and Switched Power Distribution Units (PDU)

Additional Options

HPE Metered Switched 2.8kVA/L5-30P 24A/120V Outlets (24) 5-20R /Vertical NA/JP PDU	H8B48A
HPE Metered Switched 3.6kVA/60320 C20 Detachable 16A/230V Outlets (7) C13 (1) C19/Vertical WW PDU	H8B49A
HPE Metered Switched 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU	H8B50A
HPE Metered Switched 7.3kVA/60309 3-wire 32A/230V Outlets (20) C13 (4) C19/Vertical INTL PDU	H8B51A
HPE Metered Switched 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (6) C19/Vertical NA/JP PDU	H8B52A
HPE Metered Switched 3Ph 8.6kVA/L2190-30P 24A/208V Outlets (23) C13 C19 (1) 520R/Vertical NA/JP PDU	H8B53A
HPE Metered Switched 3Ph 11kVA/60309 5-wire 16A/230V Outlets (21) C13 (3) C19/Vertical INTL PDU	H8B54A
HPE Metered Switched 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	H8B55A
HPE Metered Switched 3Ph 17.3kVA/60309 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	H8B56A
NOTE: Please see the HPE Metered and Switched Power Distribution Units (PDU) Quic for information on additional options and product specifications.	<u>kSpecs</u>
NOTE: To learn more please visit the HDE Uninterruntible Dower Systems (UDS) web n	202

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

HPE Rack Mount	HPE Location Discovery Services	
Consoles, KVM	HP Location Discovery Services LCD8500 Kit	TL052A
Switches, and	NOTE: Please see the HPE Location Discovery Services QuickSpecs for	
Keyboards	information on additional options and product specifications.	
	HPE Rack Mount Consoles	
	HP LCD8500 1U US Rackmount Console Kit	AF630A
	HP LCD8500 1U UK Rackmount Console Kit	AF631A
	HP LCD8500 1U DE Rackmount Console Kit	AF632A
	HP LCD8500 1U FR Rackmount Console Kit	AF633A
	HP LCD8500 1U JP Rackmount Console Kit	AF642A
	HP LCD8500 1U RU Rackmount Console Kit	AF643A
	HP LCD8500 1U INTL Rackmount Console Kit	AF644A
	HP LCD8500 1U US TAA Rackmount Console Kit	AF645A
	NOTE: Please see the HPE LCD8500 Console Kit QuickSpecs for information	
	on additional options and product specifications.	
	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
		Page 37

Additional Options

HP 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software	AF620A
HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software	AF621A
HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software	AF622A
NOTE: To learn more, please visit the HPE KVM Switches web page.	
HPE USB Keyboard and Mouse	
HP USB BFR with PVC Free US Keyboard/Mouse Kit	631341-B21
HP USB BFR with PVC Free UK Keyboard/Mouse Kit	631344-B21
HP USB BFR with PVC Free FR Keyboard/Mouse Kit	631346-B21
HP USB BFR with PVC Free ES Keyboard/Mouse Kit	631348-B21
HP USB BFR with PVC Free DE Keyboard/Mouse Kit	631358-B21
HP USB BFR with PVC Free JP Keyboard/Mouse Kit	631360-B21
HP USB BFR with PVC Free IT Keyboard/Mouse Kit	631362-B21
HP USB BFR with PVC Free CN Keyboard/Mouse Kit	631364-B21
HP USB BFR with PVC Free AE Keyboard/Mouse Kit	638212-B21
HP USB BFR with PVC Free RU Keyboard/Mouse Kit	638214-B21
HP USB BFR with PVC Free IN Keyboard/Mouse Kit	672097-D63
HP USB BFR with PVC Free AP-Intl Keyboard/Mouse Kit	672097-373
HP USB BFR with PVC Free Intl Keyboard/Mouse Kit	672097-B33
HP USB BFR with PVC Free PT Keyboard/Mouse Kit	672097-133
HP USB BFR with PVC Free TR Keyboard/Mouse Kit	672097-143
HP USB BFR with PVC Free CZ Keyboard/Mouse Kit	672097-223
HP USB BFR with PVC Free FI Keyboard/Mouse Kit	672097-353
HP USB BFR with PVC Free SE Keyboard/Mouse Kit	672097-103
HP USB BFR with PVC Free CH Keyboard/Mouse Kit	672097-113
HP USB BFR with PVC Free KR Keyboard/Mouse Kit	672097-KD3
NOTE: Please see the HPE USB Keyboard and Mouse QuickSpecs for	
information on additional options and product specifications.	
HPE Other Options	
HP Rack LED Light Kit	BW939A
HP Kit LCD 1.83m Latch Display Port Cable	G7T29A
HP Advanced Power Manager Kit	741192-B21
HP ConvergedSystem Door Branding Kit	TK815A
HP ConvergedSystem Rack Light Kit	TK816A
HP ConvergedSystem Rack Side Panel 1075mm Kit	TK817A

HPE Uninterruptible HPE DirectFlow Three Phase UPS

Power Systems	Power Unit (1U UPS)	
(UPS)	HP R12000 DirectFlow - 1U Rackmount Uninterruptible Power System	G9Y75A
	HP R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System	AF478A
	HP RP12000/3 12000VA Three Phase INTL 6U Rackmount Uninterruptible Power	AF437A
	System	
	Input/Output Module Options for 1U UPS	
	HP 32A 400-415 Volt Three Phase INTL R12000 DirectFlow UPS IEC309	AF488A
	Input/Output Module	
	HP 30A 400-415 Volt Three Phase NA R10000 DirectFlow UPS IEC309	AF489A
	Input/Output Module	

QuickSpecs

Additional Options

HP 32A 380 Volt Three Phase China R12000 DirectFlow UPS Unterminated	AF490A
Input/Output Module	
HP 30A 480 Volt Three Phase NA R12000 DirectFlow UPS L22-30 Input/Output Module	AF491A
HP 30A 480 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output	AF492A
Module	
HP 30A 400-415 Volt Three Phase NA R12000 DirectFlow UPS IEC309	G9Y76A
Input/Output Module	
HP DirectFlow UPS Management Card	AF493A
Power Unit (2U UPS)	
HP R18000 DirectFlow - 2U Rackmount Uninterruptible Power System	AF479A
Input/Output Module Options for 2U UPS	
HP 32A 400-415 Volt Three Phase INTL R18000 DirectFlow UPS IEC309 Input/Output Module	AF483A
HP 30A 380 Volt Three Phase China R18000 DirectFlow UPS Unterminated Input/Output Module	AF485A
HP 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output	AF486A
Module	/ (1100/ (
HP 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output	AF487A
Module	
HP 30A 400 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output	D9Q02A
Module	
HP 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	
HP DirectFlow UPS - 1U Rackmount Lithium-ion Battery Pack	AF480A
HP DirectFlow UPS - 3U Rackmount VRLA Battery Pack	AF482A
HP WW DirectFlow Secondary Battery Cable	AF497A
NOTE: Please see the HPE DirectFlow Three Phase Uninterruptible Power System	<u>m QuickSpecs</u>
for information on additional options and product specifications.	
HPE Tower UPS	
HPE T750 G4 UPS Models	
HP T750 G4 NA/JP Uninterruptible Power System	J2P85A
HP T750 G4 INTL Uninterruptible Power System	J2P88A
HPE T1000 G4 UPS Models	
HP T1000 G4 NA/JP Uninterruptible Power System	J2P86A
HP T1000 G4 INTL Uninterruptible Power System	J2P89A
HPE T1500 G4 UPS Models	
HP T1500 G4 NA/JP Uninterruptible Power System	J2P87A
HP T1500 G4 INTL Uninterruptible Power System	J2P90A
HPE Rack-mountable UPS	
HPE R/T2200 G4 UPS Models	
HP R/T2200 G4 NA/JP Uninterruptible Power System	J2R00A
HPE R/T3000 G4 UPS Models	
HP R/T3000 G4 Low Voltage NA/JP Uninterruptible Power System	J2R01A

Additional Options

HP R/T3000 G4 High Voltage NA/JP Uninterruptible Power System	J2R02A
HP R/T3000 G4 High Voltage INTL Uninterruptible Power System	J2R04A
R1500 G4 Models	
HP R1500 G4 NA Uninterruptible Power System	J2Q99A
HP R1500 G4 JP/TWN Uninterruptible Power System	J2R05A
HP R1500 G4 INTL Uninterruptible Power System	J2R03A
R7000 Uninterruptible Power System (UPS)	
HP R7000 4U 50A High Voltage NA/JP Uninterruptible Power System	AF462A
HP R7000 4U IEC-32A High Voltage INTL Uninterruptible Power System	AF463A
R5000 Uninterruptible Power System (UPS)	
HP R5000 3U L630 High Voltage NA/JP Uninterruptible Power System	AF460A
HP R5000 3U IEC309-32A High Voltage INTL Uninterruptible Power System	AF461A
NOTE: Please see the <u>HPE Line Interactive Single Phase UPS QuickSpecs</u>	
for information on additional options and product specifications.	
HPE UPS Options	
HP R/T2200 G4 Extended Runtime Module	J2R09A
HP R/T3000 G4 Extended Runtime Module	J2R10A
HP 2U Rack/Tower UPS Shipping Kit	L4Q11A
NOTE: To learn more, please visit the <u>HPE Uninterruptible Power Systems (UPS)</u>) web page
HPE Power Cords HP C13 - SEV 1011 CH 250V 10Amp 1.83m Power Cord	AF565A
HP C13 - DK-2.5A DK 250V 10Amp 1.83m Power Cord	AF566A
	AFSOOA
HP C13 - SABS-164 ZA 250V 10Amp 2.5m Power Cord	AF567A
HP C13 - SABS-164 ZA 250V 10Amp 2.5m Power Cord	AF567A

HPE USB and SD	HPE Flash Media Kits for USB Drives	
Options	HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit	737953-B21
	HP Dual 8GB microSD Enterprise Midline USB Kit	741279-B21
	HPE Enterprise Mainstream Flash Media Kits for Memory Cards	
	HP 32GB microSD Enterprise Mainstream Flash Media Kit	700139-B21
	HP 8GB microSD Enterprise Mainstream Flash Media Kit	726116-B21

HP 8AWG W/Ground Lug 48V DC 3.0m Power Cord

J6X42A

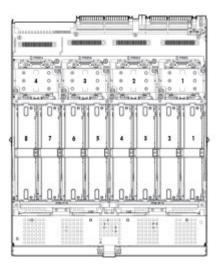
HPE SmartMemory

New HPE SmartMemory now provides additional protection for your servers. With HPE Authentication it can verify that you have true Hewlett Packard Enterprise Qualified Memory in your HPE ProLiant Gen9 server. With HPE SmartMemory, your new HPE ProLiant server can take advantage of additional Gen9 enhancements in performance, durability and future manageability support through HPE Active Health System.

For detailed memory configuration rules and guidelines, please use the Online DDR4 Memory Configuration

Tool: http://www.hp.com/go/ddr4config.MemoryAs shown in the figure below, memory cartridge to processor association as follows:SubsystemArchitecture• Memory cartridges installed without a corresponding processor are not utilized:

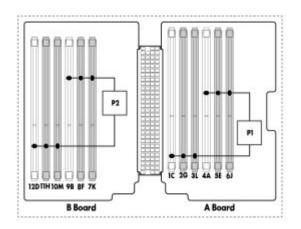
- o Processor 1 corresponds to memory cartridges 1 and 2.
- o Processor 2 corresponds to memory cartridges 3 and 4.
- Processor 3 corresponds to memory cartridges 5 and 6.
 NOTE: Memory cartridges 5 and 6 are not recognized if processor 3 is not installed.
- Processor 4 corresponds to memory cartridges 7 and 8.
 NOTE: Memory cartridges 7 and 8 are not recognized if processor 4 is not installed.



The server can operate in independent channel mode (performance) or combined channel mode (lockstep). Lockstep mode improves the system reliability and availability. If running with RDIMM (built with x4 DRAM devices), the system can survive the complete failure of two DRAM devices (DDDC). Running in independent mode, the server can only survive the complete failure of a single DRAM device (SDDC).

Memory performance depends on selected processor and whether the system is configured for independent channel mode (performance mode) or lockstep mode (RAS mode).

Memory Population guidelines Each memory cartridge contains 12 DIMM slots as shown in figure below:



General Memory Population Rules and Guidelines:

- . To maximize performance, install two memory cartridges per processor and balance the total memory capacity between all installed processors.
- . When multiple processors are installed, HPE recommends installing the DIMMs in sequential alphabetical order: 4A, 9B, 1C, 12D, and so on.
- . LRDIMMs support higher densities than single- and dual-rank RDIMMs, and higher speeds than quadrank RDIMMs. This support enables you to install more high capacity DIMMs, resulting in higher system capacities and higher bandwidth.
- . Do not mix LRDIMMs with any other DIMM type (RDIMM, LVDIMM).
- . RDIMM population is limited to a maximum of eight logical ranks per channel. Therefore, only two quad rank RDIMMs are supported per channel. If there are more than eight physical ranks per channel, LRDIMMs rank multiplication provides support for three DIMMs per channel.
- **Performance or Independent Mode:** In this mode each DDR4 channel works independently and the SMI2 channel operates at twice the DDR4 speed (3200 MT/s max).
- Lockstep mode: In this mode, the memory controller operates two DDR4 channels behind one memory buffer as single channel and the SMI2 channel operates at the DDR4 transfer rate (1866 MT/s max).

NOTE: UDIMMs are not supported. This server does not support mixing LRDIMMs, RDIMMs, or UDIMMs. Attempting to mix any combination of these DIMMs can cause the server to halt during BIOS initialization. For detailed memory configuration rules and guidelines, use the Online DDR4 Memory Configuration Tool on the HPE website (<u>http://www.hp.com/go/ddr3memory-</u>configurator).

Intel Gen9 Supported Memory Bandwidth for HPE ProLiant Gen9 Intel® Xeon® E7-4800v3 Series Processor Family

Memory Bandwidth and Capacity								
[DIMM Type]	Registered DIMMs (RDIMMs)			educed IMMs)				
DIMM Rank	Single Rank	Dual Rank	Dual Rank	Quad Rank	Quad Rank			
DIMM Capacity	8GB	16GB	32GB	32GB	64GB			

			-		
DIMM Native Speed (MT/s)	2133	2133	2133	2133	2133
Voltage	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V
SLOTS THAT CAN B	E POPULATI	Ð			
96 slot servers	96	96	96	96	96
ΜΑΧΙΜυΜ CAPACIT	1AXIMUM CAPACITY (GB)				
	768	1536	3072	3072	6144
POPULATED DIMM	SPEED (MT/s	;)			
1 DIMM Per Channel	1600	1600	1600	1600	1600
2 DIMM Per Channel	1600	1600	1600	1600	1600
3 DIMM Per Channel	1600	1333	1333	1866	1866

DIMM slot and configuration

diagram

• The memory subsystem in this server is divided into channels. Each processor supports eight channels, and each channel supports three DIMM slots, as shown in the table below. White DIMM slots denote the first slot of a channel (Ch 4A, Ch 9B, Ch 1C, Ch 12D...).

	CPU 1 CPU 2				
	Slot #	population order	Slot #	population order	
Chnl 3	1	С	1	С	Chnl 3
	2	G	2	G	
	3	L	3	L	
		CPU 1		CPU 2	
	Slot #	population order	Slot #	population order	
Chnl 1	4	А	4	A	Chnl 1
	5	E	5	E	
	6	J	6	J	
		CPU 1	CPU 2		
	Slot #	population order	Slot #	population order	
Chnl 2	7	К	7	К	Chnl 2
	8	F	8	F	
	9	В	9	В	
		CPU 1			

	Slot #	population order		CPU 2		
			Slot #	population order		
Chnl 4	10	М	10	М		Chnl 4
	11	Н	11	Н		
	12	D	12	D		

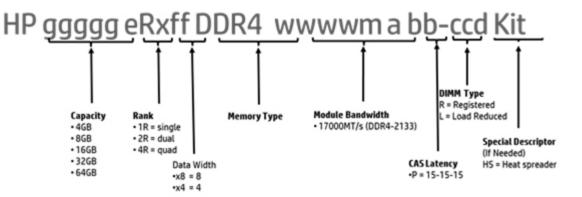
Memory Speed by	Processor Models	Supported Memory Speeds
Processor Model	E7-4850v3, E7-4830v3, E7-4820v3, E7-4809v3	1600MHz
	E7-8890v3, E7-8880v3, E7-8870v3, E7-8880Lv3, E7-8860v3, E7-8867v3, E7-8891v3, E7-8893v3	1333/1600/1866MHz

Standard and Maximum Memory Capacity (Pre- configured Models)	Pre Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
	E7-8890v3, E7-8893v3	256GB (16x16GB)	5376GB (80x64GB, 16x16GB)	6144GB (96x64GB)
	E7-4850v3	128GB (8x16GB)	5760GB (88x64GB, 8x16GB)	6144GB (96x64GB)
	E7-4809v3	64GB (4x16GB)	5952GB (92x64GB, 4x16GB)	6144GB (96x64GB)

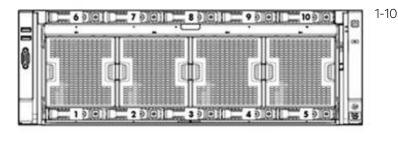
DDR4 memory options part number decoder

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

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



Storage



Maximum Storage Capacity -

NOTE: Optional support for 5 NVMe PCIe SSDs or 5 SFF drives are also available.

Hot Plug SFF SAS20TB (10 x 2.0TB)Hot Plug SFF SAS SSD19.2TB (10 x 1.92TB)Hot Plug SFF SATA38.4TB (10 x 3.84TB)SSDHot Plug SFF NVMe8TB (5 x 1.6TB)PCle SSDF

Ten (10) SFF Hot-plug HDD/SSD drive bays **NOTE: Drives installed in bays 6-10 require the optional SAS backplane kit.**

NOTE: Optional NVMe drives are only supported in Drive bays 6-10.

System Unit	Dimensions (H x W x D) (with bezel)	6.88" x 17.48" x 29" (17.5cm x 44.4cm x 73.6cm)		
	Weight (approximate)	Maximum: (all hard drives, power supplies, DIMMs and processors installed)	116.56 lb (52.87 kg)	
		Minimum: (one hard drive, two power supplies, four DIMMs, and two processors installed)	70.94 lb (32.18 kg)	
	Input Requirements	Range Line Voltage	100 - 120 VAC (1200W PS only)	
	(per power supply)	Rated Input Current	200 - 240 VAC (1200W & 1500W PS) 9.2A (100 VAC), 6.6A (200 VAC) - 1200W PS8.3A (200 VAC) - 1500W PS	
		Rated Input Frequency	50 to 60 Hz	
		Rated Input Power	1000 W (120 VAC), 1320 W (230VAC)- 1200W PS 1652 W (at 230 VAC) - 1500W PS	
	BTU Rating	Maximum	3408 BTU/hr (120 VAC), 4500 BTU/hr (at 230 VAC) - 1200W PS5637 BTU/hr (230 VAC) - 1500W PSVAC), 3112 BTU/hr (at 240 VAC) for China Only	
	Power Supply Output	Rated Steady- State Power	800 W (100 VAC low line),900 W (120 VAC low line), 1200W (200 - 240 VAC) for 1200W PS	
	(per power supply)	Maximum Peak Power	1500W (200 - 240V) for 1500W PS1400W (at 240 VAC) input for China only NOTE: To review typical system power ratings use the HPE Power Advisor which is available online located at	
			url: http://www.hp.com/go/proliant-energy-efficient or http://www.hp.com/go/hppoweradvisor.	
	System Inlet Temperature		10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).	
			For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m	

		(2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: http://www.hp.com/servers/Ashrae
		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
	Non-operating	System performance may be reduced if operating in the extended ambient operating range or with a fan fault. -30° to 60°C (-22° to 140°F). Maximum rate of change is
	i ion operaning	20°C/hr (36°F/hr).
Relative Humidity	Operating	10% to 90% relative humidity (Rh), 28°C (82.4°F) maximum wet bulb temperature, non-condensing.
(non-condensing)	Non-operating	5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.
Altitude	Operating	3048 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
	Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).
Acoustic Noise	average bystander product is operatir	ared A-Weighted sound power levels (LWAd) and declared r position A-Weighted sound pressure levels (LpAm) when the ng in a 23°C ambient environment. Noise emissions were dance with ISO 7779 (ECMA 74) and declared in accordance with 09).
	Idle	
	L WAd	6.8 B
	LpAm	51.2
	Operating	
	L WAd	6.9 B
	LpAm	51.2
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
	(type) testing, ev	onformance to cited product specifications is based on sample aluation, or assessment. This product or family of products is ne appropriate compliance logos and statements.

	Interface - Transfer rate			
	SAS Connectors	s 2 internal x8 Mini-SAS double-wide internal		
	Cache Memory Speed	DDR2-1866MHz with 72-bit wide bus at 14.9 GB/s (4 GiBytes Cache Module)		
		12Gb/s per physical link		
	Cache Memory	FBWC cache is required. 2GB is included with BTO models. For CTO, 2GB or 4GB FBWC cache is required.		
Logical Drives Supported Host Memory Addressing		Up to 64 logical volumes 64-bit, supporting greater than 4GB server memory space		
HPE Ethernet 1GbNetwork10Base-T/100Base-TX/1000Base-TX4-port 331FLRInterface		10Base-T/100Base-TX/1000Base-TX		
Adapter	Compatibility Data Transfer	IEEE 802.3 10Base-T IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX IEEE 802.3x IEEE 802.3ad 1000Base-TX IEEE 802.3az IEEE 1588 PCI-Express 2.0 x4		
	Method			
	Controller	BCM5719		
	Network Transfer Rate	10Base-T (Full-Duplex)20 Mb/s100Base-TX (Full-200 Mb/s1000Base-TX200 Mb/s(Full-Duplex)2000 Mb/s		
	Connector	RJ-45		
	Cable Support	10 Base-TCategories 3, 4 or 5 UTP; up to 328 ft (100 m)100 Base-TXCategory 5 or higher UTP; up to 328 ft (100 m)1000 Base-TXCategory 5 or higher UTP; up to 328 ft (100 m)		
HPE FlexFabric 10Gb 2-port				
534FLR-SFP+ Adapter	Compatibility	IEEE 802.3		

Environment-	End-of-life	Hewlett-Packard offers end-of-life Hewlett Packard Enterprise product return,
friendly	Management and	trade-in, and recycling programs in many geographic areas. For trade-in
Products and	Recycling	information, please go to: http://www.hp.com/go/green . To recycle your
Approach		product, please go to: http://www.hp.com/go/green or contact your
		nearest Hewlett Packard Enterprise sales office. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

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

Summary of Changes

Date	Version History	Action	Description of Change
08-Apr-2016	From Version 9 to 10	Changed	HPE Processors section was revised.
31-Mar-2016	From Version 8 to 9	Added	Added new controllers, new HDD offering, new networking adapters, new security TPM module, and new transceiver.
		Changed	Network Controller, Embedded Management, Security, Service and Support, Pre-configured Models, and Storage Options sections were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
16-Feb-2016	From Version 7 to 8	Added	New HDD offering was added to HPE Drives.
		Changed	Operating Systems and Virtualization Software Support for ProLiant Servers, Pre-configured Models, Configuration Information - Factory Integrated Models, HPE Power Distribution Units (PDUs), and Technical Specifications were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
17-Dec-2015	From Version 6 to 7	Added	Smart Buy models were added to the NA version.
1-Dec-2015	From Version 5 to 6	Added	New SSD offering was added to HPE Drives. New options added to HPE Infiniband, HPE PCIe Workload Accelerator Options, and HPE Tape Backup.
		Changed	On System Management Chipset, Maximum Internal Storage, Embedded Management, Server Utilities,
		Removed	Obsolete SKUs were removed from the QuickSpecs.
9-Oct-2015	From Version 4 to 5	Changed	Memory, Maximum Internal Storage, HPE USB and SD Options, Storage, and Dimensions in Technical Specifications were revised.
2-Oct-2015	From Version 3 to 4	Changed	HPE Memory section was revised.
28-Sep-2015	From Version 2 to 3	Added	Added new 6Gb SATA Solid State Drives. Added new HPE OneView management software.
		Changed	Maximum Internal Storage, Interfaces, and HPE Memory were revised.
		Removed	Obsolete SKUs were removed from the QuickSpecs.
17-Aug-2015	From Version 1 to 2	Added	New Hard Drives offering was added to Core Options.
		Changed	Upgradeability and FlxibleLOM under Standard Features were revised. HPE Memory, HP Networking, and HPE Graphic Options under Core Options were revised. Memory section was revised.

Summary of Changes





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

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