

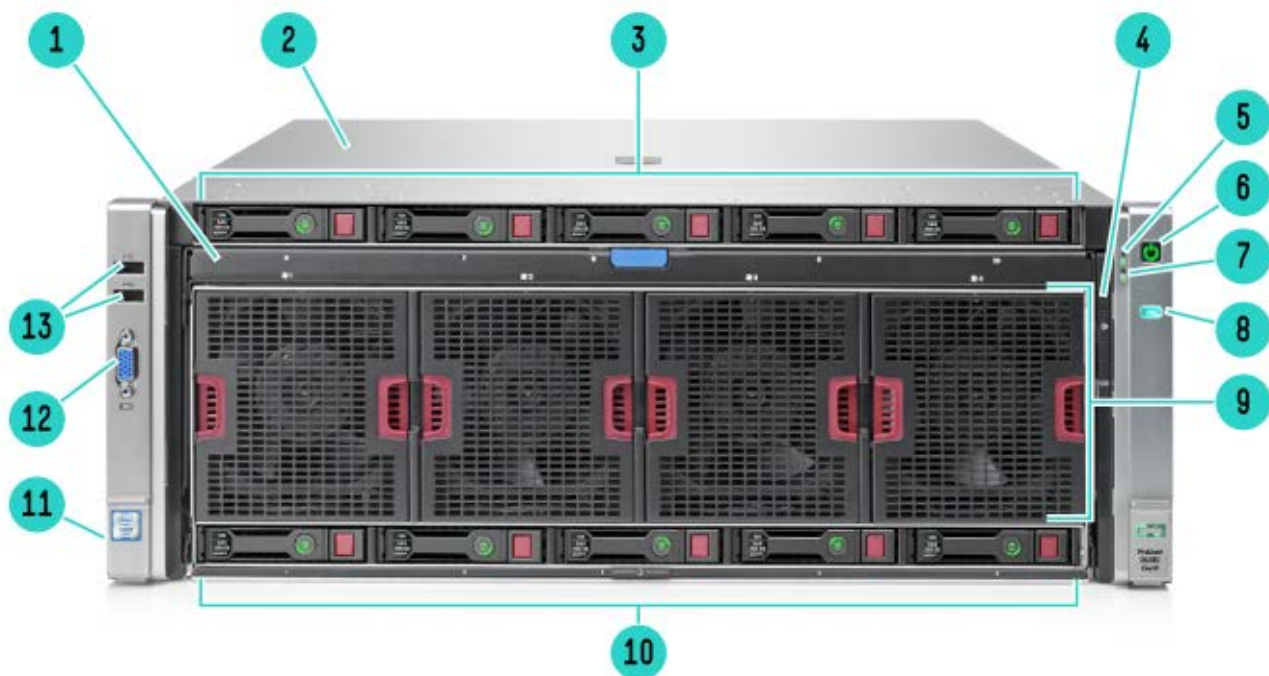
Overview

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 v4/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.

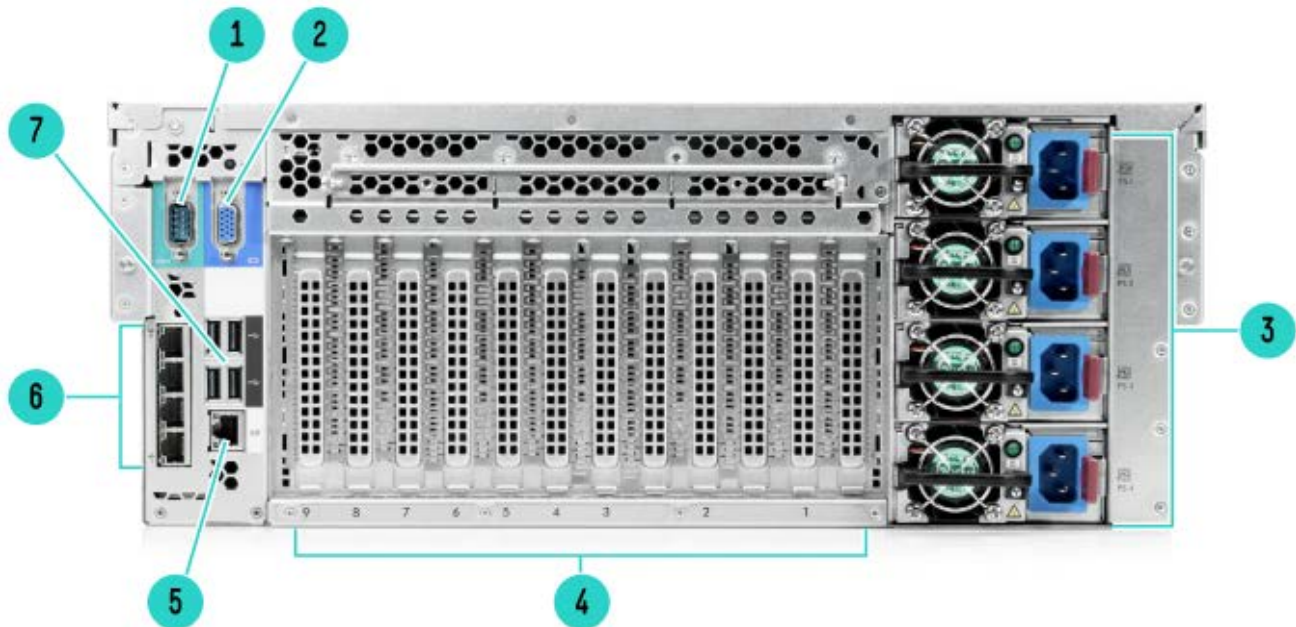
Whether needed for highly virtualized or cloud based deployments, with intelligence and simplicity of automated management with HPE OneView and HPE iLO 4 your business can achieve agile and lower cost infrastructure management.



Front View

1. CPU Memory Drawer Handle
2. Quick removal access panel
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.
4. Systems Insight Display
5. Health Status LED
6. Power On/Standby button and system power LED button
7. NIC status LED
8. UID button
9. Fans 1-4
10. Drive bays 1-5
11. Discovery services connectors
12. Video connector
13. USB connectors (2)

Overview



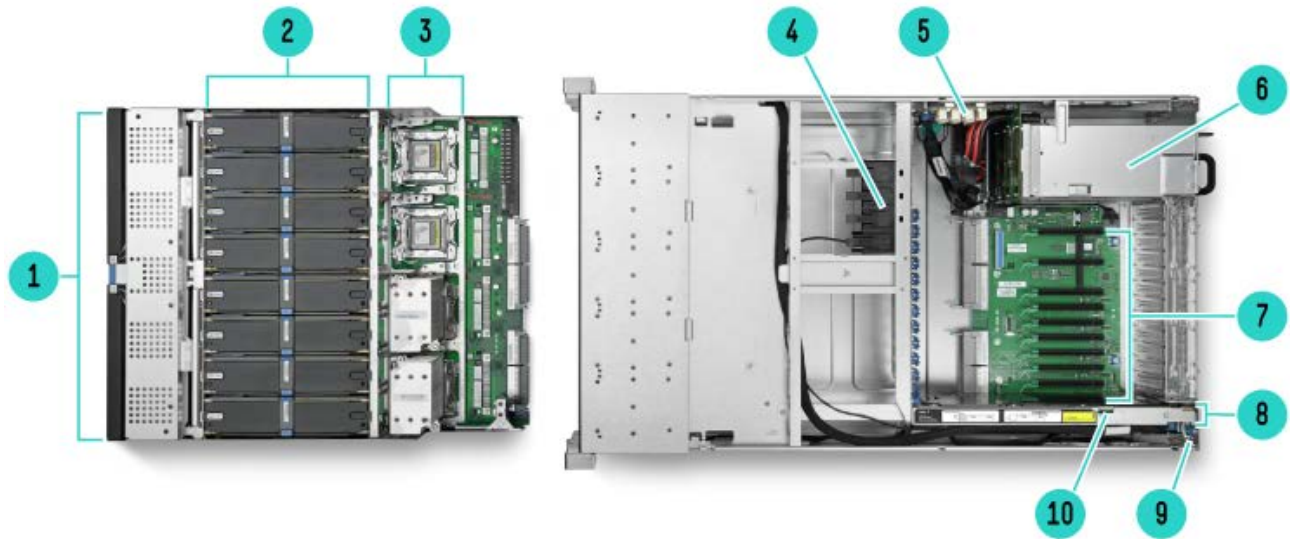
Rear View

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.

Overview



Internal View

- | | |
|--|-----------------------------|
| 1. CPU Memory Drawer | 2. Memory Cartridges 1-8 |
| 3. Processors 1-4 | 4. FBWC capacitor slots 1-4 |
| 5. I/O Card Auxiliary Power Connectors | 6. Power Supplies |
| 7. PCI expansion slots 1-9 | 8. FlexibleLOM connector |
| 9. SPI board (houses iLO chip, FBWC, microSD slot, 2x USB slots, TPM, top SAS backplane connector) | 10. MicroSD Slot |

What's New

- New 128GB memory

Standard Features

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

Processor

One or more of the following depending on model

Model	CPU frequency	Cores	L3 Cache	Power	QPI	DDR4 Hz
E7-8893v3	3.2GHz	4	45MB	140W	9.6GT/s	1866
E7-8891v3	2.8GHz	10	45MB	165W	9.6GT/s	1866
E7-8890v3	2.5GHz	18	45MB	165W	9.6GT/s	1866
E7-8880v3	2.3GHz	18	45MB	150W	9.6GT/s	1866
E7-8880Lv3	2.0GHz	18	45MB	115W	9.6GT/s	1866
E7-8870v3	2.1GHz	18	45MB	140W	9.6GT/s	1866
E7-8867v3	2.5GHz	16	45MB	165W	9.6GT/s	1866
E7-8860v3	2.2GHz	16	40MB	140W	9.6GT/s	1866
E7-4850v3	2.2GHz	14	35MB	115W	8.0GT/s	1866
E7-4830v3	2.1GHz	12	30MB	115W	8.0GT/s	1866
E7-4820v3	1.9GHz	10	25MB	115W	6.4GT/s	1866
E7-4809v3	2.0GHz	8	20MB	115W	6.4GT/s	1866
E7-8894v4	2.4GHz	24	60MB	165W	9.6GT/s	1866
E7-8893v4	3.2GHz	4	60MB	140W	9.6GT/s	1866
E7-8891v4	2.8GHz	10	60MB	165W	9.6GT/s	1866
E7-8890v4	2.2GHz	24	60MB	165W	9.6GT/s	1866
E7-8880v4	2.2GHz	22	55MB	150W	9.6GT/s	1866
E7-8870v4	2.1GHz	20	50MB	140W	9.6GT/s	1866
E7-8867v4	2.4GHz	18	45MB	165W	9.6GT/s	1866
E7-8860v4	2.2GHz	18	45MB	140W	9.6GT/s	1866
E7-4850v4	2.1GHz	16	40MB	115W	8.0GT/s	1866
E7-4830v4	2.0GHz	14	35MB	115W	8.0GT/s	1866
E7-4820v4	2.0GHz	10	25MB	115W	6.4GT/s	1866
E7-4809v4	2.1GHz	8	20MB	115W	6.4GT/s	1866

Chipset

Intel® C602J Chipset
 Intel® Xeon® E7-4800/8800v3 Processor Family
 Intel® Xeon® E7-4800/8800v4 Processor Family

NOTE: For more information regarding Intel® chipsets, please see the following URL:
<http://www.intel.com/products/server/chipsets/>

On System Management Chipset

HPE iLO (Firmware HPE iLO4 2.0) 4GB NAND
NOTE: Read and learn more in the [iLO QuickSpecs](#).

Memory

One of the following depending on model

Type:
 HPE SmartMemory
 DDR4 Registered (RDIMM) and Quad Rank Load Reduced (LRDIMM)
 DIMM Slots Available 96
 Maximum Capacity 12TB (96 x 128GB)

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

Standard Features

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: [HPE Server Memory Configurator](#).

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	PCIe 3.0	x16	x16	C0/03/0	Full length/full height	Proc 4
	2	PCIe 3.0	x16	x16	C0/02/0	Full length/full height	Proc 4
	3	PCIe 3.0	x16	x16	80/03/0	Full length/full height	Proc 3
	4	PCIe 3.0	x8	x16	80/02/0	Full length/full height	Proc 3
	5	PCIe 3.0	x8	x16	80/02/1	Full length/full height	Proc 3
	6	PCIe 3.0	x16	x16	40/03/0	Full length/full height	Proc 2
	7	PCIe 3.0	x8	x16	40/02/0	Full length/full height	Proc 2
	8	PCIe 3.0	x8	x16	40/02/1	Full length/full height	Proc 2
	9	PCIe 3.0	x16	x16	00/03/0	Full	Proc 1

Standard Features

length/full
height

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

NOTE: When populating the second optional riser slot, the second processor must be installed.

NOTE: All slots support PCIe cards to 150W or more depending on card but an additional Power Cord Option is required (PN 669777-B21). See Option Section below for offering.

NOTE: Double wide PCIe cards are only supported in risers with the Processors leveraging the High Performance Heatsink.

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 Devices

One of the following depending on model

Hard Disk Drive Backplane Internal SAS lower and upper backplanes support up to ten SFF hard disk 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.

Diskette Drive None

Optional Optical Drive External

Hard Drives None ship standard

Maximum Internal Storage

CAPACITY CONFIGURATION

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 NVMe PCIe SSD	8TB	5 x 1.6TB

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

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.

Prior to making a power supply selection it is highly recommended that the HPE Power Advisor is run to determine the right size power supply for your server configuration. The HPE Power Advisor is located at:

<http://www.hpe.com/info/hppoweradvisor>.

The Hewlett Packard Enterprise Common Slot (CS) power supplies allow for commonality of power supplies across a wide range of ProLiant and Integrity servers, as well as HPE Storage solutions, and are designed to provide the highest power supply efficiency without degrading system performance. Hewlett Packard Enterprise CS power supplies are tested by the Electric Power Research Institute (EPRI) and certified through the ECOS 80 Plus power supply program. HPE CS power supply options provide efficiency ratings of up to 94% (80 Plus Platinum) and are available. All Hewlett Packard Enterprise Common Slot power sources are UL, CE Mark Compliant, hot-plug and support redundant configurations.

Standard Features

HPE CS Platinum Plus power supplies are required when enabling HPE's Intelligent Power Discovery (IPD) solution. IPD is the first technology to create an automated, energy-aware network between IT systems and facilities. This allows your company to reclaim millions of dollars in wasted power capacity and downtime costs across data centers. For more information on the Hewlett Packard Enterprise IPD solution, go to [HPE Intelligent Power Distribution Units](#).

NOTE: Mixing of power supplies in the same server is not supported. All power supplies must be of the same output and efficiency rating. If non-matched power supplies are inserted you will get errors and operation will fail.

Required Cabling

Server Power Cords

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 [power cord matrix](#) for details.

System Fans

One of the following depending on model

4 Hot Plug Fans (eight rotors with N+1 redundancy)

Non-redundant

Redundant

Interfaces

Serial	1 back
Video	1 front; 1 back
FlexibleLOM Network Ports	Selection of FlexibleLOM options
iLO 4 Remote Management	1 x 1Gbe dedicated
Micro SD Slot	1 internal
USB 2.0 Ports	8 total: 2 front; 4 back; 2 internal

NOTE: Dual microSD USB option kit also available (741279-B21).

Operating Systems and Virtualization Software Support for ProLiant Servers

[Microsoft Windows Server](#)

[Red Hat Enterprise Linux \(RHEL\)](#)

[SUSE Linux Enterprise Server \(SLES\)](#)

[VMware](#)

[CentOS](#)

[Oracle Linux](#)

NOTE: For more information on Hewlett Packard Enterprise Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server, please visit our [Support Matrix](#) at: <http://www.hpe.com/info/ossupport> and our [driver download page](http://h20565.www2.hpe.com/hpsc/swd/public/readIndex?sp4ts.oid=8090151) <http://h20565.www2.hpe.com/hpsc/swd/public/readIndex?sp4ts.oid=8090151>

Upgradeability

Upgradeable to 4 processors
Up to 96 DDR4 DIMM slots
9 PCIe Gen3 expansion slots

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

10 SFF internal HDD/SSD SAS drive bays or 5 SFF Internal Express Bays + 5 SFF Internal HDD/SSD drive bays

NOTE: Five drive bays come standard. An optional five SAS drive or five Express backplane kit with five drive bays can be ordered for ten drives.

5 NVMe SSD drive bays

4 redundant hot-plug power supplies

Standard Features

Industry Standard Compliance

ACPI 2.0. Compliant

PCIe 2.0 Compliant

PXE Support

WOL Support

NOTE: Not supported with FlexLOMs on DL580 Gen9.

Physical Address Extension (PAE) Support

Microsoft® Logo certifications

USB 2.0 Support

ASHRAE A3/A4

NOTE: For additional technical thermal details regarding ambient temperatures, humidity and features support please visit: <http://www.hpe.com/servers/ashrae>.

Graphics

Integrated Matrox G200 video standard

- 16 MB Flash
- 256 MB DDR 3 with ECC (112 MB after ECC and video)

HPE iLO 4 On System Management Memory

- 16 MB Flash
 - 256 MB DDR 3 with ECC (112 MB after ECC and video)
-

HPE Server UEFI/Legacy ROM

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

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

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

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

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

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

Form Factor

4U rack

Embedded

HPE Integrated Monitor your servers for ongoing management, service alerting, reporting and remote

Standard Features

Management	Lights-Out (HPE iLO)	management with HPE iLO. Learn more at http://www.hpe.com/info/ilo .
	UEFI	Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI). Learn more at http://www.hpe.com/servers/uefi .
	RESTful API	RESTful API for iLO 4 is Redfish 1.0 conformance for simplified server management such as configuration and maintenance tasks based on modern industry standards. Learn more at http://www.hpe.com/info/restfulapi .
	Intelligent Provisioning	Hassle free server and OS provisioning for 1 or few servers with Intelligent Provisioning. Learn more at http://www.hpe.com/servers/intelligentprovisioning .
	Embedded Remote Support	The Hewlett Packard Enterprise embedded remote support, when used with Insight Online direct connect or HPE Insight Remote Support, allows HPE ProLiant servers to transmit hardware events directly to Hewlett Packard Enterprise or a Hewlett Packard Enterprise Authorized Partner for automated phone home support. Learn more at http://www.hpe.com/info/insightonline/explore .
Server utilities	Smart Update	Optimize firmware and driver updates with Smart Update solutions including Smart Update Manager (SUM) and Service Pack for ProLiant (SPP). Learn more at http://www.hpe.com/servers/smartupdatemanager .
	HPE Systems Insight Manager (HPE SIM)	HPE SIM allows you to monitor the health of your HPE ProLiant Servers and HPE Integrity Servers, and also provides you with basic support for non-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 http://www.hpe.com/info/insightonline/explore .
	Security	Power-on password
Keyboard password		
External USB port enable/disable		

Standard Features

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 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 Pointnext operational 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://h17007.www1.hp.com/us/en/enterprise/servers/warranty/>.

Optional Features

Embedded Management	iLO Advanced	HPE iLO Advanced licenses offer smart remote functionality without compromise, for all HPE ProLiant servers. The license includes the full integrated remote console, virtual keyboard, video, and mouse (KVM), multi-user collaboration, console record and replay, and GUI-based and scripted virtual media and virtual folders. You can also activate the enhanced security and power management functionality. Learn more about HPE iLO Advanced at http://www.hpe.com/servers/iloadvanced .
Server Management	HPE Insight Control	HPE Insight Control, lets you deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. For more information, see http://www.hpe.com/info/insightcontrol .
	HPE Insight Cluster Management Utility (CMU)	HPE Insight Cluster Management Utility is a HyperScale management framework that includes software for the centralized provisioning, management and monitoring of nodes and infrastructure. Learn more at http://www.hpe.com/info/cmu .
Rack and Power Infrastructure		HPE Rack and Power Infrastructure products and services create highly efficient and intelligent solutions for existing or new IT data centers. HPE Rack and Power infrastructure solutions – rack infrastructure, power protection and management, performance optimized data centers (PODs) – are the foundation you are looking for to help secure your long-term IT success. These products are designed to help you react to changes in the industry. They deliver efficient, easy-to-use capabilities to manage, monitor, deploy and provision infrastructure from entry to enterprise. As an industry leader, Hewlett Packard Enterprise is uniquely positioned to address the key concerns of power, cooling, cable management and system access. Learn more at HPE Rack and Power Infrastructure .
High Performance Clusters	HPE Cluster Platforms	HPE Cluster Platforms are specifically engineered, factory-integrated large-scale ProLiant clusters optimized for High Performance Computing, with a choice of servers, networks and software. Operating system options include specially priced offerings for Red Hat Enterprise Linux and SUSE Linux Enterprise Server, as well as Microsoft Windows HPEC Server. A Cluster Platform Configurator simplifies ordering. http://www.hpe.com/info/cmu .
	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. https://www.hpe.com/info/hpc/solutions .
	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. http://www.hpe.com/info/cmu .
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: https://www.hpe.com/info/hpc/solutions .	

Optional Features

Storage Software

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

- **Data Protection and Recovery Software**
Whether you're a large enterprise or a smaller business, Hewlett Packard Enterprise data protection and recovery software will cost-effectively protect you against disaster and ensure business continuity.
- **Data Archive and Migration Software**
Hewlett Packard Enterprise storage software enables you to comply with data retention and retrieval requirements, improve application performance, and reduce costs by efficiently migrating infrequently accessed or less valuable data to lower cost storage.
- **Storage Resource Management Software (SRM)**
Hewlett Packard Enterprise storage resource management software reduces operational costs and provides the command and control foundation you need to efficiently manage and visualize your physical and virtual environments.
- **Data Replication Software**
Hewlett Packard Enterprise offers array-based and host-based replication software for use in disaster recovery, testing, application development and reporting.
- **Storage Device Management Software**
Maximize your investment in Hewlett Packard Enterprise storage and networking with software that enables hardware-specific configuration, performance tuning and connectivity management.
- **HPE StoreVirtual VSA**
With HPE StoreVirtual VSA you can use the power of virtualization to create a virtual array within your host server. Manage it as a single pool of shared storage capacity, and scale it to match your evolving needs. HPE ProLiant Gen9 servers include a 3-year limited license for HPE StoreVirtual VSA software with 1TB of capacity at no extra cost. Simply select to install HPE StoreVirtual VSA software during server setup within Intelligent Provisioning. More information, instructional videos, and free console management software are available at <http://www.hpe.com/info/vsa1TB>.

NOTE: For more information about Storage Software including QuickSpecs, please see: <https://www.hpe.com/us/en/solutions/hpc-high-performance-computing/hpc-software.html>.

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 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: <http://www.hpe.com/info/factoryexpress>.

One Config Simple (SCE)

SCE is a guided self-service tool to help sales and non-technical people provide customers with initial configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in

Optional Features

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. <http://ocs.ext.hpe.com/>.

Service and Support

HPE Support Services

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

Connect your devices

Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Achieve up to 77%¹ reduction in down time, near 100%² diagnostic accuracy and a single consolidated view of your environment. By connecting, you will receive 24x7 monitoring, 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.

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Recommended Support

Standard: HPE Proactive Care* with 24x7 coverage, three year Support Service

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

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

Optimized HPE Proactive Care* with 6 hour call-to-repair commitment, three year Support Service

HPE Proactive Care gives customers an enhanced call experience. When your products are connected to Hewlett Packard Enterprise, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice. This service combines three years' proactive reporting and advice with our highest level of hardware support – Hewlett Packard Enterprise 24x7, six hour hardware call-to-repair. Hewlett Packard Enterprise is the only leading manufacturer who makes this level of coverage available as a standard service offering for your most valuable servers. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.) running on your HPE servers.

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

Parts and Materials

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

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

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

Related Services

HPE Server Hardware Installation

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

<https://www.hpe.com/h20195/V2/GetPDF.aspx/5981-9356EN.pdf>

HPE Installation and Startup Service

Provides for the installation and startup of Hewlett Packard Enterprise technology including BladeSystems,

Service and Support

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 anywhere, anytime.

HPE Insight Remote Support and HPE Support Center are available at no additional cost with a Hewlett Packard Enterprise warranty, HPE Support Service or Hewlett Packard Enterprise contractual support agreement.

*HPE Support Center Mobile App is subject to local availability.

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

Pre-configured Models

	High Performance Models				Database Models	
[SKU Number]	816815-B21	816816-B21	793312-B21	793310-B21	816814-B21	793314-B21
Model Name	HPE ProLiant DL580 Gen9 E7-8890v4 4P 256GB-R P830i/4G 534FLR-SFP 1500W RPS Server	HPE ProLiant DL580 Gen9 E7-4850v4 4P 128GB-R P830i/4G 534FLR-SFP 1200W RPS Server	HPE ProLiant DL580 Gen9 E7-8890v3 4P 256GB-R P830i/4G 534FLR-SFP+ 1500W RPS Server	HPE ProLiant DL580 Gen9 E7-4850v3 4P 128GB-R P830i/4G 534FLR-SFP+ 1200W RPS Server	HPE ProLiant DL580 Gen9 E7-8893v4 4P 256GB-R P830i/4G 534FLR-SFP 1500W RPS Server	HPE ProLiant DL580 Gen9 E7-8893v3 4P 256GB-R P830i/4G 534FLR-SFP+ 1500W RPS Server
Processor	Intel® Xeon® E7-8890v4	Intel® Xeon® E7-4850v4	Intel® Xeon® E7-8890v3	Intel® Xeon® E7-4850v3	Intel® Xeon® E7-8893v4	Intel® Xeon® E7-8893v3
Number of Processors	Four					
Memory	256GB (16x16GB DIMMs) PC4-2400P-R DIMMs (DDR4) installed in (8) Memory Cartridges	128GB (8x16GB DIMMs) PC4-2400P-R DIMMs (DDR4) installed in (4) Memory Cartridges	256GB (16x16GB DIMMs) PC4-2133P-R DIMMs (DDR4) installed in (8) Memory Cartridges	128GB (8x16GB DIMMs) PC4-2133P-R DIMMs (DDR4) installed in (4) Memory Cartridges	256GB (16x16GB DIMMs) PC4-2400P-R DIMMs (DDR4) installed in (8) Memory Cartridges	256GB (16x16GB DIMMs) PC4-2133P-R DIMMs (DDR4) installed in (8) Memory Cartridges
Network Controller	HPE FlexFabric 10Gb 2P 534FLR-SFP+ Adapter					
Storage Controller	HPE Smart Array P830i/4GB FBWC 12Gbps SAS controller					
Hard Drive	5 SFF HDD/SSD 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	(4) HPE 1500W Common Slot Platinum Plus Hot Plug Power Supplies	(4) HPE 1200W Common Slot Platinum Plus Hot Plug Power Supplies	(4) HPE 1500W Common Slot Platinum Plus Hot Plug Power Supplies	(4) HPE 1200W Common Slot Platinum Plus Hot Plug Power Supplies	(4) HPE 1500W 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 (standard), Insight Control (optional), HPE OneView (standard)					
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					

Pre-configured Models

	Base Models	
[SKU Number]	816817-B21	793308-B21
Model Name	HPE ProLiant DL580 Gen9 E7-4809v4 2P 64GB-R P830i/2G 331FLR-SFP 1200W RPS Server	HPE ProLiant DL580 Gen9 E7-4809v3 2P 64GB-R P830i/2G 331FLR-SFP+ 1200W RPS Server
Processor	Intel® Xeon® E7-4809v4	Intel® Xeon® E7-4809v3
Number of Processors	Two	
Memory	64GB (4x16GB DIMMs) PC4-2400P-R DIMMs (DDR4) installed in (2) Memory Cartridges	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 12Gbps SAS controller	
Hard Drive	5 SFF HDD/SSD 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	
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

Configuration Information - Factory Integrated Models

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

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

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

[Chassis]	HPE 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
PCIe	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)

HPE Processors

Select two, three or four processors from Core Options-Processor section below.

- If two processors are desired, select one xxxxxx-L21 and one xxxxxx-B21.
- If three or four processors are desired, select additional xxxxxx-B21.
- Up to 4 processors supported. Mixing different processor models is not supported.
- DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

Configuration Information - Factory Integrated Models

HPE Memory Depending on the memory configuration and processor model, the memory speed may run at 1866MHz, 1600MHz or 1333MHz. Please see Memory Population Table or the Online Memory Configuration Tool at: <http://www.hpe.com/servers/ddr4/memoryconfig>.

HPE Power Supplies Select two or four power supplies from Core Options-Power Supplies section below.

Step 3: Choose Additional Factory Integratable Options

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

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

HPE Drives The HPE ProLiant Gen9 Smart Storage solutions are equipped with re-designed Small Form Factor (SFF 2.5 in) hot plug carriers for HPE Qualified Hard Drives and Solid State Drives. These new carriers provide status and activity indicators as well as caution indicators for "Do Not Remove."

HPE FlexibleLOM Select a FlexibleLOM from Core Options-Networking section below.

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

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

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

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

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

- Please see the HPE Power Advisor for estimated power consumption of your individual system configuration prior to installing GPUs. The HPE Power Advisor is located at: <http://www.hpe.com/info/hppoweradvisor>.
- This section may contain FIO options, please see HPE Computation & Graphics Accelerators section below.

Configuration Information - Factory Integrated Models

HPE Rail Kits

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

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

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

Core Options

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

HPE Processors	E7-8800v4 series Processors	
	HPE DL580 Gen9 Intel® Xeon® E7-8893v4 (3.2GHz/4-core/60MB/140W) Processor Kit	816661-B21
	HPE DL580 Gen9 Intel® Xeon® E7-8893v4 (3.2GHz/4-core/60MB/140W) FIO Processor Kit	816661-L21
	HPE DL580 Gen9 Intel® Xeon® E7-8891v4 (2.8GHz/10-core/60MB/165W) Processor Kit	816659-B21
	HPE DL580 Gen9 Intel® Xeon® E7-8891v4 (2.8GHz/10-core/60MB/165W) FIO Processor Kit	816659-L21
	HPE DL580 Gen9 Intel® Xeon® E7-8860v4 (2.2GHz/18-core/45MB/140W) Processor Kit	816649-B21
	HPE DL580 Gen9 Intel® Xeon® E7-8860v4 (2.2GHz/18-core/45MB/140W) FIO Processor Kit	816649-L21
	HPE DL580 Gen9 Intel® Xeon® E7-8867v4 (2.4GHz/18-core/45MB/165W) Processor Kit	816665-B21
	HPE DL580 Gen9 Intel® Xeon® E7-8867v4 (2.4GHz/18-core/45MB/165W) FIO Processor Kit	816665-L21
	HPE DL580 Gen9 Intel® Xeon® E7-8870v4 (2.1GHz/20-core/50MB/140W) Processor Kit	816647-B21
	HPE DL580 Gen9 Intel® Xeon® E7-8870v4 (2.1GHz/20-core/50MB/140W) FIO Processor Kit	816647-L21
	HPE DL580 Gen9 Intel® Xeon® E7-8880v4 (2.2GHz/22-core/55MB/150W) Processor Kit	816645-B21
	HPE DL580 Gen9 Intel® Xeon® E7-8880v4 (2.2GHz/22-core/55MB/150W) FIO Processor Kit	816645-L21
	HPE DL580 Gen9 Intel® Xeon® E7-8890v4 (2.2GHz/24-core/60MB/165W) Processor Kit	816643-B21
	HPE DL580 Gen9 Intel® Xeon® E7-8890v4 (2.2GHz/24-core/60MB/165W) FIO Processor Kit	816643-L21
	HPE DL580 Gen9 Intel® Xeon® E7-8894v4 (2.4GHz/24-core/60MB/165W) Processor Kit	816663-B21
	HPE DL580 Gen9 Intel® Xeon® E7-8894v4 (2.4GHz/24-core/60MB/165W) FIO Processor Kit	816663-L21
	E7-8800v3 series Processors	
	HPE DL580 Gen9 Intel® Xeon® E7-8890v3 (2.5GHz/18-core/45MB/165W) Processor Kit	788317-B21
	HPE DL580 Gen9 Intel® Xeon® E7-8890v3 (2.5GHz/18-core/45MB/165W) FIO Processor Kit	788317-L21
	HPE DL580 Gen9 Intel® Xeon® E7-8880v3 (2.3GHz/18-core/45MB/150W) Processor Kit	788319-B21
	HPE DL580 Gen9 Intel® Xeon® E7-8880v3 (2.3GHz/18-core/45MB/150W) FIO Processor Kit	788319-L21
	HPE DL580 Gen9 Intel® Xeon® E7-8870v3 (2.1GHz/18-core/45MB/140W) Processor Kit	788321-B21
	HPE DL580 Gen9 Intel® Xeon® E7-8870v3 (2.1GHz/18-core/45MB/140W) FIO Processor Kit	788321-L21

Core Options

Processor Kit	
HPE DL580 Gen9 Intel® Xeon® E7-8860v3 (2.2GHz/16-core/40MB/140W) Processor Kit	788323-B21
HPE DL580 Gen9 Intel® Xeon® E7-8860v3 (2.2GHz/16-core/40MB/140W) FIO Processor Kit	788323-L21
HPE DL580 Gen9 Intel® Xeon® E7-8891v3 (2.8GHz/10-core/45MB/165W) Processor Kit	788333-B21
HPE DL580 Gen9 Intel® Xeon® E7-8891v3 (2.8GHz/10-core/45MB/165W) FIO Processor Kit	788333-L21
HPE DL580 Gen9 Intel® Xeon® E7-8893v3 (3.2GHz/4-core/45MB/140W) Processor Kit	788335-B21
HPE DL580 Gen9 Intel® Xeon® E7-8893v3 (3.2GHz/4-core/45MB/140W) FIO Processor Kit	788335-L21
HPE DL580 Gen9 Intel® Xeon® E7-8880Lv3 (2.0GHz/18-core/45MB/115W) Processor Kit	788337-B21
HPE DL580 Gen9 Intel® Xeon® E7-8880Lv3 (2.0GHz/18-core/45MB/115W) FIO Processor Kit	788337-L21
HPE DL580 Gen9 Intel® Xeon® E7-8867v3 (2.5GHz/16-core/45MB/165W) Processor Kit	788339-B21
HPE DL580 Gen9 Intel® Xeon® E7-8867v3 (2.5GHz/16-core/45MB/165W) FIO Processor Kit	788339-L21
E7-4800v4 series Processors	
HPE DL580 Gen9 Intel® Xeon® E7-4809v4 (2.1GHz/8-core/20MB/115W) Processor Kit	816657-B21
HPE DL580 Gen9 Intel® Xeon® E7-4809v4 (2.1GHz/8-core/20MB/115W) FIO Processor Kit	816657-L21
HPE DL580 Gen9 Intel® Xeon® E7-4820v4 (2.0GHz/10-core/25MB/115W) Processor Kit	816655-B21
HPE DL580 Gen9 Intel® Xeon® E7-4820v4 (2.0GHz/10-core/25MB/115W) FIO Processor Kit	816655-L21
HPE DL580 Gen9 Intel® Xeon® E7-4830v4 (2.0GHz/14-core/35MB/115W) Processor Kit	816653-B21
HPE DL580 Gen9 Intel® Xeon® E7-4830v4 (2.0GHz/14-core/35MB/115W) FIO Processor Kit	816653-L21
HPE DL580 Gen9 Intel® Xeon® E7-4850v4 (2.1GHz/16-core/40MB/115W) Processor Kit	816651-B21
HPE DL580 Gen9 Intel® Xeon® E7-4850v4 (2.1GHz/16-core/40MB/115W) FIO Processor Kit	816651-L21
E7-4800v3 series Processors	
HPE DL580 Gen9 Intel® Xeon® E7-4850v3 (2.2GHz/14-core/35MB/115W) Processor Kit	788325-B21
HPE DL580 Gen9 Intel® Xeon® E7-4850v3 (2.2GHz/14-core/35MB/115W) FIO Processor Kit	788325-L21
HPE DL580 Gen9 Intel® Xeon® E7-4830v3 (2.1GHz/12-core/30MB/115W) Processor Kit	788327-B21
HPE DL580 Gen9 Intel® Xeon® E7-4830v3 (2.1GHz/12-core/30MB/115W) FIO Processor Kit	788327-L21
HPE DL580 Gen9 Intel® Xeon® E7-4820v3 (1.9GHz/10-core/25MB/115W) Processor Kit	788329-B21
HPE DL580 Gen9 Intel® Xeon® E7-4820v3 (1.9GHz/10-core/25MB/115W) FIO	788329-L21

Core Options

Processor Kit		
HPE DL580 Gen9 Intel® Xeon® E7-4809v3 (2.0GHz/8-core/20MB/115W) Processor Kit		788331-B21
HPE DL580 Gen9 Intel® Xeon® E7-4809v3 (2.0GHz/8-core/20MB/115W) FIO Processor Kit		788331-L21

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: <http://www.hpe.com/servers/ddr4memoryconfig>

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
HP 8GB (1x8GB) Single Rank x8 DDR4-2400 CAS-17-17-17 Registered Memory Kit		805347-B21
HP 16GB (1x16GB) Single Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit		805349-B21
HPE 16GB (1x16GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit		836220-B21
HP 32GB (1x32GB) Dual Rank x4 DDR4-2400 CAS-17-17-17 Registered Memory Kit		805351-B21

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
HPE 64GB (1x64GB) Quad Rank x4 DDR4-2400 CAS-17-17-17 Load Reduced Memory Kit		805358-B21
HPE 128GB (1x128GB) Octal Rank x4 DDR4-2400 CAS-20-18-18 Load Reduced Memory Kit		809208-B21

Memory Expansion Options

HPE DL580 Gen9 12 DDR4 DIMM Slots Memory Cartridge		788360-B21
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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).

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

HPE Optical Drives

HPE Mobile USB Non Leaded System DVD RW Drive		701498-B21
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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 Hot Plug SFF (2.5-inch) Midline Drives

HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty Digitally Signed Firmware HDD		832514-B21
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12G SAS Hot Plug SFF (2.5-inch) Enterprise Drives

Core Options

HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872479-B21
HPE 1.2TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD	781518-B21
HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870759-B21
HPE 900GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD	785069-B21
HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872477-B21
HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870757-B21
HPE 600GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD	781516-B21
HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty HDD	759212-B21
HPE 450GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty HDD	759210-B21
HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	872475-B21
HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty Digitally Signed Firmware HDD	870753-B21
HPE 300GB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty HDD	785067-B21
HPE 300GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty HDD	759208-B21
12G SAS Hot Plug SFF (2.5-inch) SC 512e Drives	
HPE 2TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e HDD	765466-B21
HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	872481-B21
HPE 1.8TB SAS 12G Enterprise 10K SFF (2.5in) SC 3yr Wty 512e HDD	791034-B21
HPE 1TB SAS 12G Midline 7.2K SFF (2.5in) SC 1yr Wty 512e Digitally Signed Firmware HDD	765464-B21
HPE 900GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	870765-B21
HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e Digitally Signed Firmware HDD	870763-B21
HPE 600GB SAS 12G Enterprise 15K SFF (2.5in) SC 3yr Wty 512e HDD	748387-B21
SSD Selection	
To streamline the configuration process for HPE ProLiant Gen9 servers and to provide the best product availability, HPE recommends SSDs from the list located here:	
http://www.hpe.com/products/recommend	
12G SAS Mixed Use Hot Plug SFF (2.5-inch) Solid State Drives	
HPE 3.2TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872386-B21
HPE 1.6TB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872382-B21
HPE 800GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872376-B21
HPE 400GB SAS 12G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872374-B21
12G SAS Read Intensive Hot Plug SFF (2.5-inch) Solid State Drives	
HPE 7.68TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	870144-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872394-B21
HPE 3.84TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875330-B21
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware	872392-B21

Core Options

SSD	
HPE 1.92TB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875326-B21
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875313-B21
HPE 960GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872390-B21
HPE 480GB SAS 12G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875311-B21
12G SATA Read Intensive Hot Plug SFF (2.5-inch) Solid State Drives	
HPE 3.84TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877764-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877758-B21
HPE 1.6TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	869386-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877752-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	869384-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877746-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	869378-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877740-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875503-B21
HPE 240GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	869376-B21
HPE 150GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	869374-B21
6G SATA Hot Plug SFF (2.5-inch) SC Mixed Use Solid State Drives	
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877788-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872352-B21
HPE 1.92TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875478-B21
HPE 1.6TB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty SSD	804631-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877782-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872348-B21
HPE 960GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875474-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	877776-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	872344-B21
HPE 480GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875470-B21
HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	880295-B21
HPE 240GB SATA 6G Mixed Use SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875483-B21
6G SATA Hot Plug SFF (2.5-inch) SC Write Intensive Solid State Drives	
HPE 1.6TB SATA 6G WI SFF SC DS SSD	872363-B21
HPE 800GB SATA 6G WI SFF SC DS SSD	872359-B21

Core Options

HPE 400GB SATA 6G WI SFF SC DS SSD	872355-B21
6G SATA Hot Plug SFF (2.5-inch) SC Read Intensive Solid State Drives	
HPE 3.8TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	868830-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	868826-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	871770-B21
HPE 1.92TB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875513-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	868822-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875511-B21
HPE 960GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty SSD	871768-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	868818-B21
HPE 480GB SATA 6G Read Intensive SFF (2.5in) SC 3yr Wty Digitally Signed Firmware SSD	875509-B21
HPE 240GB 6G SATA Read Intensive SFF (2.5-inch) SC DS SSD	868814-B21
HPE NVMe PCIe Mixed Use SFF (2.5 inch) Solid State Drives	
HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	875597-B21
HPE 1.6TB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty SSD	765038-B21
HPE 800GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	875595-B21
HPE 800GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty SSD	765036-B21
HPE 400GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	875593-B21
HPE 400GB NVMe x4 Lanes Mixed Use SFF (2.5in) SCN 3yr Wty SSD	765034-B21
HPE NVMe PCIe Write Intensive SFF (2.5-inch) Solid State Drives	
HPE 1.6TB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty SSD	764892-B21
HPE 800GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty SSD	736939-B21
HPE 400GB NVMe x4 Lanes Write Intensive SFF (2.5in) SCN 3yr Wty SSD	736936-B21
HPE NVMe PCIe Read Intensive SFF (2.5 inch) Solid State Drives	
HPE 1.92TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	875591-B21
HPE 1.2TB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty SSD	764906-B21
HPE 960GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	875589-B21
HPE 480GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty Digitally Signed Firmware SSD	875587-B21
HPE 400GB NVMe x4 Lanes Read Intensive SFF (2.5in) SCN 3yr Wty SSD	764904-B21

NOTE: To support NVMe PCIe SSDs you need to select the SSD Express Bay Kit (788359-B21), maximum of 5 drives supported.

NOTE: Hewlett Packard Enterprise has qualified the NVMe drive portfolio using the Operating System inbox drivers. For full details please see the Solid State Drive QuickSpecs:

<https://www.hpe.com/h20195/v2/GetHTML.aspx?docname=c04154378>

Core Options

Hard Drive Kits

HPE 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
HPE Small Form Factor Hard Drive Blank Kit	666987-B21

HPE Networking

1 Gigabit Ethernet adapters

HPE Ethernet 1Gb 4-port 331T Adapter	647594-B21
HPE Ethernet 1Gb 2-port 332T Adapter	615732-B21
HPE Ethernet 1Gb 2-port 361T Adapter	652497-B21
HPE Ethernet 1Gb 4-port 366T Adapter	811546-B21

10 Gigabit Ethernet adapters

HPE Ethernet 10Gb 2-port 530SFP Adapter	652503-B21
HPE Ethernet 10Gb 2-port 530T Adapter	656596-B21
HPE Ethernet 10Gb 2-port 546SFP+ Adapter	779793-B21
HPE Ethernet 10Gb 2-port 557SFP+ Adapter	788995-B21
HPE Ethernet 10Gb 2-port 560SFP+ Adapter	665249-B21
HPE Ethernet 10Gb 2-port 561T Adapter	716591-B21
HPE Ethernet 10Gb 2-port 562SFP+ Adapter	727055-B21

NOTE: A minimum of two Gigabytes (2 GB) of server memory is required per each adapter.

FlexibleLOM Adapters

HPE Ethernet 1Gb 4-port 331FLR Adapter	629135-B22
HPE Ethernet 1Gb 4-port 331FLR FIO Adapter	684208-B21
HPE Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
HPE Ethernet 1Gb 4-port 366FLR FIO Adapter	684217-B21
HPE FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
HP FlexFabric 10Gb 2-port 533FLR-T FIO Adapter	700760-B21
HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
HPE FlexFabric 10Gb 2-port 534FLR-SFP+ FIO Adapter	700752-B21
HPE FlexFabric 10Gb 4-port 536FLR-T Adapter	764302-B21
HPE FlexFabric 10Gb 4-port 536FLR-T FIO Adapter	764303-B21
HPE Ethernet 10Gb 2-port 546FLR-SFP+ Adapter	779799-B21
HPE Ethernet 10Gb 2-port 546FLR-SFP+ FIO Adapter	779800-B21
HPE FlexFabric 10Gb 2-port 556FLR-T Adapter	794525-B21
HPE FlexFabric 10Gb 2-port 556FLR-T FIO Adapter	794526-B21
HPE FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter	727060-B21
HPE FlexFabric 10Gb 2-port 556FLR-SFP+ FIO Adapter	732456-B21
HPE Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21
HPE Ethernet 10Gb 2-port 560FLR-SFP+ FIO Adapter	684218-B21
HPE Ethernet 10Gb 2-port 561FLR-T Adapter	700699-B21
HP Ethernet 10Gb 2-port 561FLR-T FIO Adapter	700700-B21
HPE Ethernet 10Gb 2-port 562FLR-SFP+ Adapter	727054-B21
HP Ethernet 10Gb 2-port 562FLR-SFP+ FIO Adapter	789006-B21

NOTE: Wake-On-LAN not supported with FlexibleLOMs on DL580 Gen9.

NOTE: Please see the QuickSpecs for Technical Specifications and additional information: <http://www.hpe.com/servers/ProLiantNICs>

Core Options

25 Gigabit Ethernet adapters

HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 Adapter	817749-B21
HPE Ethernet 10/25Gb 2-port 640FLR-SFP28 FIO Adapter	817750-B21
HPE Ethernet 10/25Gb 2-port 640SFP28 Adapter	817753-B21
HPE Ethernet 4x25Gb 1-port 620QSFP28 Adapter	817762-B21

HPE InfiniBand

HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+QSFP Adapter	764284-B21
NOTE: UEFI and Legacy modes are supported with Ethernet and InfiniBand functionality.	
HPE InfiniBand FDR/Ethernet 10Gb/40Gb 2-port 544+FLR-QSFP Adapter	764285-B21
NOTE: UEFI and Legacy modes are supported with Ethernet and InfiniBand functionality.	
HPE InfiniBand QDR/Ethernet 10Gb 2-port 544+FLR-QSFP Adapter	764286-B21
HPE 100Gb 1-port OP101 QSFP28 x16 PCIe Gen3 with Intel® Omni-Path Architecture Adapter	829335-B21
HPE 100Gb 1-port OP101 QSFP28 x8 PCIe Gen3 with Intel® Omni-Path Architecture Adapter	829334-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 Supplies

HPE Common Slot Platinum Plus Power Supply Kits

HPE 1500W Common Slot Platinum Plus Power Supply Kit	684532-B21
HPE 1500W Common Slot 48VDC Hot Plug Power Supply Kit	746708-B21
HPE 1200W Common Slot Platinum Hot Plug Power Supply Kit	748287-B21
HPE 1200W Common Slot Platinum Plus Hot Plug Power Supply Kit	656364-B21

NOTE: 94% efficiency with support for HPE Power Discovery Services.

NOTE: Prior to making a power supply selection it is highly recommended that the HPE Power Advisor is run to determine the right size power supply for your server configuration. The HPE Power Advisor is located at: <http://www.hpe.com/info/hppoweradvisor>.

NOTE: Minimum of two (2) power supplies are required.

NOTE: All power supplies in a server should match. Mixing Power Supplies is not supported.

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 mounting with Power Distribution Units (PDUs). Full list of optional Hewlett Packard Enterprise [power cords](#).

HPE Computation and Graphics Accelerators

HPE NVIDIA Tesla M60 Reverse Air Flow Dual GPU PCIe Graphics Accelerator	M3X67A
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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 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 4 double wide cards are supported on Slot 1, Slot 3, Slot 6 and Slot 9 (slot 5 and slot 8 are blocked).

NOTE: HPE DL580Gen9 M60 Reverse Air Flow Cable Kit (869724-B21) is required for Graphics cards.

HPE DL580 Gen9 M60 Reverse Air Flow Cable Kit	869724-B21
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Core Options

HPE NVIDIA Quadro M6000 24GB Graphics Accelerator

P8Y47A

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 the memory equals or exceeds 1 TB, the GPU options will not function properly due to a memory addressing design limitation with the NVIDIA GPU. See [HPE Service Advisory](#) for more details.

NOTE: The DL580 Gen9 supports six auxiliary power connectors.

Additional Options

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

HPE Insight Software	HPE Insight Control	
	HPE Insight Control including 1yr 24x7 Technical Support and Updates 1-server LTU	C6N27A
	HPE Insight Control including 1yr 24x7 TSU E-LTU	C6N28ABE
	HPE Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO LTU	C6N36A
	HPE Insight Control Upgrade from iLO Advanced including 1yr 24x7 Support E-LTU	C6N38ABE
	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:	
	https://www.hpe.com/info/insightmanagement	
	NOTE: For additional license options please see the HPE Insight Control QuickSpecs .	

HPE Converged Infrastructure Management Software	HPE OneView Advanced (with HPE iLO Advanced)	
	HPE OneView including 3yr 24x7 Support Physical 1-server LTU	E5Y34A
	HPE OneView including 3yr 24x7 Support Flexible Quantity E-LTU	E5Y35AAE
	HPE OneView for ProLiant DL Server including 3yr 24x7 Support FIO Bundle Physical 1-server LTU	E5Y43A
	HPE OneView Advanced (without HPE iLO Advanced)	
	HPE OneView w/o iLO including 3yr 24x7 Support 1-server LTU	P8B24A
	HPE OneView w/o iLO including 3yr 24x7 Support Flexible Quantity E-LTU	P8B26AAE
	HPE OneView w/o iLO including 3yr 24x7 Support 1-server FIO LTU	P8B31A
	HPE OneView Physical Media Kit LTU	E5Y37A
	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.hpe.com/info/hpeoneview .	
	NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.	
	NOTE: Please see the HPE OneView QuickSpecs for Technical Specifications and additional information.	

HPE iLO Advanced License	HPE iLO Advanced	
	HPE iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU	E6U64ABE
	HPE iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU	E6U59ABE
	HPE iLO Advanced including 3yr 24x7 Tech Support and Updates 1-server LTU	BD505A

Additional Options

	HPE iLO Advanced including 1yr 24x7 Technical Support and Updates 1-server LTU	512485-B21
HPE PCIe Workload Accelerator Options	HPE Read Intensive PCIe Workload Accelerator	
	HPE 1.3TB Read Intensive-2 HH/HL PCIe Workload Accelerator	831733-B21
	NVME PCIe Workload Accelerators	
	HPE 2.0TB NVMe Mixed Use HH/HL PCIe Workload Accelerator	803204-B21
	HPE 1.6TB NVMe Mixed Use HH/HL PCIe Workload Accelerator	803202-B21
	HPE 1.6TB NVMe Write Intensive HH/HL PCIe Workload Accelerator	803197-B21
	HPE 800GB NVMe Mixed Use HH/HL PCIe Workload Accelerator	803200-B21
	HPE 800GB NVMe Write Intensive HH/HL PCIe Workload Accelerator	803195-B21
	NOTE: Both Legacy and UEFI BIOS modes are supported. Please see the HPE PCIe Workload Accelerators for ProLiant Servers QuickSpecs for Technical Specifications and additional information.	
HPE Security	HPE 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.	
HPE Storage Controllers	SAS Controllers	
	HPE Smart Array Controllers	
	HPE Smart Array P430/2GB FBWC 12Gb 1-port Int SAS Controller	698529-B21
	HPE 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.	
	HPE Smart Array P431/2GB FBWC 12Gb 2-ports Ext SAS Controller	698531-B21
	HPE 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.	
	HPE 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.	
	HP Smart Array 2GB 24in FIO Flashback Write Cache	758836-B21
	HP 4GB Flash Backed Write Cache FIO Kit for P-series Smart Array Controllers	698537-B21
	NOTE: A maximum of 4 HPE Smart Array Controllers (including embedded controller) can be installed.	
HPE Smart Host Bus Adapters		
HPE 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.		
HPE 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.		

Additional Options

HP H240 12Gb 2-ports Int FIO Smart Host Bus Adapter 761873-B21

NOTE: Both Legacy and UEFI modes are supported.

Optional Upgrades

HP DL580 PCIe Stand-up SAS Controller Upper Drive Backplane Cable Kit 748916-B21

HPE DL580 Gen9 H240 Card Upper SAS Backplane Cable Kit 805356-B21

HPE Tape Backup

NOTE: For the complete range of tape drives, autoloaders, libraries and media see: <http://www.hpe.com/storage/storeever>. For hardware and software compatibility of HPE tape backup products see: <http://www.hpe.com/storage/spock>.

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

HPE StoreEver LTO-4 Ultrium 1760 SAS (1) in a 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

HPE StoreEver LTO-6 Ultrium 6250 Tape Drive in a 1U Rack Mount Kit COL99A

HPE StoreEver LTO-6 Ultrium 6250 External Tape Drive EH970A

HPE StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in a 1U Rack Mount Kit EJ014B

HPE StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive EH958B

HPE StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive EH920B

HPE 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 StoreEver 1/8 G2 LTO-7 Ultrium 15000 FC Tape Autoloader N7P34A

HPE StoreEver 1/8 G2 LTO-7 Ultrium 15000 SAS Tape Autoloader N7P35A

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

HPE D3700 Enclosure QW967A

HPE D3600 Enclosure QW968A

HPE StoreOnce 3100 8TB System BB913A

HPE StoreOnce 3540 24TB System BB914A

HPE StoreOnce 5100 48TB System BB915A

HPE StoreOnce 3520 12TB System BB922A

HPE RDX 3TB USB 3.0 Internal Disk Backup System P9L71A

HPE RDX+ 3TB USB 3.0 External Disk Backup System P9L72A

NOTE: For the complete range of RDX drives and media see:

<https://www.hpe.com/us/en/product-catalog/storage/disk-based-backup-systems.html>. For hardware and software compatibility of Hewlett Packard Enterprise disk backup products see: <http://www.hpe.com/storage/spock>

NOTE: For internal drives to be connected to DL servers please make sure that you

Additional Options

order rack mount kit as well.

HPE Storage Options	HPE Converged Network Adapters	
	HPE StoreFabric CN1100R 10GBASE-T Dual Port Converged Network Adapter	N3U52A
	HPE 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
	HPE StoreFabric CN1200E 10Gb Converged Network Adapter	E7Y06A
	NOTE: Both UEFI and Legacy mode are supported.	
	QLogic Fibre Channel HBAs	
	HPE 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AK344A
	HPE 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ764A
	HPE StoreFabric 84Q 4-port 8Gb Fibre Channel Host Bus Adapter	P9D91A
	HPE StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter	QW971A
	HPE StoreFabric SN1100Q 16Gb Single Port Fibre Channel Host Bus Adapter	P9D93A
	HPE StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter	QW972A
	HPE StoreFabric SN1100Q 16Gb Dual Port Fibre Channel Host Bus Adapter	P9D94A
	HPE StoreFabric SN1600Q 32Gb Single Port Fibre Channel Host Bus Adapter	P9M75A
	HPE StoreFabric SN1600Q 32Gb Dual Port Fibre Channel Host Bus Adapter	P9M76A
	Emulex Fibre Channel HBAs	
	HPE 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AJ762B
	HPE 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ763B
HPE StoreFabric 84E 4-port 8Gb Fibre Channel Host Bus Adapter	E7Y63A	
HPE StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter	C8R38A	
HPE StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter	C8R39A	
HPE StoreFabric SN1100E 4-port 16Gb Fibre Channel Host Bus Adapter	P9D99A	
HPE StoreFabric SN1600E 32Gb Single Port Fibre Channel Host Bus Adapter	Q0L11A	
HPE StoreFabric SN1600E 32Gb Dual Port Fibre Channel Host Bus Adapter	Q0L12A	
HPE StoreFabric SN1200E 16Gb Single Port Fibre Channel Host Bus Adapter	Q0L13A	
HPE StoreFabric SN1200E 16Gb Dual Port Fibre Channel Host Bus Adapter	Q0L14A	
HPE Data Center Racks	HPE Advanced Series Racks	
	HPE 48U 600mm x 1075mm Advanced Pallet Rack	H6J87A
	HPE 48U 600mm x 1075mm Advanced Shock Rack	H6J88A
	HPE 42U 600mm x 1075mm Advanced Pallet Rack	H6J65A
	HPE 42U 600mm x 1075mm Advanced Shock Rack	H6J66A
	HPE 42U 600mm x 1200mm Advanced Pallet Rack	H6J67A
	HPE 42U 600mm x 1200mm Advanced Shock Rack	H6J68A
	HPE 36U 600mm x 1075mm Advanced Pallet Rack	H6J77A
	HPE 36U 600mm x 1075mm Advanced Shock Rack	H6J78A
	HPE 22U 600mm x 1075mm Advanced Pallet Rack	H6J83A
	HPE 22U 600mm x 1075mm Advanced Shock Rack	H6J84A
	HPE 14U 600mm x 1075mm Advanced Shock Rack	H6J82A
	NOTE: Please see the HPE Advanced Series Racks QuickSpecs for information on additional racks options and rack specifications.	
HPE Enterprise Series Racks		

Additional Options

HP 47U 600mm x 1075mm Enterprise Pallet Rack	BW911A
HP 47U 600mm x 1075mm Enterprise Shock Rack	BW912A
HP 47U 600mm x 1200mm Enterprise Pallet Rack	BW913A
HP 47U 600mm x 1200mm Enterprise Shock Rack	BW914A
HPE 42U 600mm x 1075mm Enterprise Pallet Rack	BW903A
HP 42U 600mm x 1075mm Enterprise Shock Rack	BW904A
HP 42U 600mm x 1200mm Enterprise Pallet Rack	BW907A
HP 42U 600mm x 1200mm Enterprise Shock Rack	BW908A
HP 42U 800mm x 1075mm Enterprise Pallet Rack	BW917A
HP 42U 800mm x 1075mm Enterprise Shock Rack	BW918A

NOTE: Please see the [HPE Enterprise Series Racks QuickSpecs](#) for information on additional racks options and rack specifications.

HPE Power Distribution Units (PDUs)

HPE Basic Power Distribution Units (PDU)

HPE 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09A
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NOTE: Please see the [HPE Basic Power Distribution Units \(PDU\) QuickSpecs](#) for information on additional options and product specifications.

HPE Metered Power Distribution Units (PDU)

HPE Metered 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 (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 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 7.3kVA/60309 32A 3-wire/230V Outlet (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 16.6kVA/60309 32A-30A 5-wire 24A/230V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	D9N62A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (24) C13 (3) C19/Vertical NA/JP PDU	D9N54A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	D9N59A
HPE Metered 3Ph 17.3kVA/60309 60A 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	G9Z07A
HPE Metered 3Ph 19.9kVA/L22-30P 24A/277V Outlets (30) RF-203P-HP/Vertical NA PDU	D9N63A

Additional Options

HPE Metered 3Ph 22kVA/60309 5-wire 32A/230V Outlet (30) C13 (3) C19/Vertical INTL PDU	D9N56A
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 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 17.3kVA/60309 60A 4-wire 48A/208V (6) C19/Horizontal NA/JP PDU	AF523A
HPE Intelligent Modular 3Ph 17.3kVA/60309 30A 5-wire 24A/240V (6) C19/Horizontal NA/JP PDU	AF901A
HPE Intelligent Modular 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 17.3kVA/IEC 60309 60A 4-wire 48A/208V (12) C19/Horizontal NA/JP PDU	AF535A
HPE Intelligent Modular 3Ph 22kVA/60309 5-wire 32A/230V Outlets (12) 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 3Ph 14.4kVA/CS8365C 40A/208V Outlets (6) C19/Horizontal NA/JP PDU	AF533A
HPE Intelligent Modular 7.3kVA/60309 3-wire 32A/230V Outlets (6) C19/Horizontal INTL PDU Kit	AF534A
HPE 5xC13 Intelligent PDU Extension Bar G2 Kit	AF547A
HPE 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar	AF528A
NOTE: Please see the HPE Intelligent Power Distribution Unit (PDU) QuickSpecs for information on additional options and product specifications.	
HPE Metered and Switched Power Distribution Units (PDU)	
HPE Metered Switched 2.8kVA/L5-30P 24A/120V Outlets (24) 5-20R /Vertical NA/JP PDU	H8B48A
HPE Metered Switched 3.6kVA/60320 C20 Detachable 16A/230V Outlets (7) C13 (1) C19/Vertical WW PDU	H8B49A
HPE Metered Switched 4.9kVA/L6-30P 24A/208V Outlets (20) C13 (4) C19/Vertical NA/JP PDU	H8B50A

Additional Options

HPE Metered Switched 7.3kVA/60309 3-wire 32A/230V Outlets (20) C13 (4) C19/Vertical INTL PDU	H8B51A
HPE Metered Switched 3Ph 8.6kVA/L15-30P 24A/208V Outlets (18) C13 (6) C19/Vertical NA/JP PDU	H8B52A
HPE Metered Switched 3Ph 8.6kVA/L21-30P 24A/208V Outlets (20)C13 (3)C19 (1)5- 20R/Vertical NA/JP PDU	H8B53A
HPE Metered Switched 3Ph 11kVA/60309 5-wire 16A/230V Outlets (21) C13 (3) C19/Vertical INTL PDU	H8B54A
HPE Metered Switched 3Ph 14.4kVA/CS8365C 40A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	H8B55A
HPE Metered Switched 3Ph 17.3kVA/60309 4-wire 48A/208V Outlets (12) C13 (12) C19/Vertical NA/JP PDU	H8B56A

NOTE: Please see the [HPE Metered and Switched Power Distribution Units \(PDU\) QuickSpecs](#) for information on additional options and product specifications.

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

HPE Rack Mount Consoles, KVM Switches, and Keyboards

HPE Location Discovery Services

HPE Location Discovery Services LCD8500 Kit	TL052A
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NOTE: Please see the [HPE Location Discovery Services QuickSpecs](#) for information on additional options and product specifications.

HPE Rack Mount Consoles

HP LCD8500 1U US Rackmount Console Kit	AF630A
HP LCD8500 1U 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
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
HPE KVM Console USB/Display Port Interface Adapter	AF654A
HPE KVM Console USB 8-pack Interface Adapter	AF655A

Additional Options

NOTE: To learn more, please visit the [HPE KVM Switches web page](#).

HPE USB Keyboard and Mouse

HPE USB US Keyboard/Mouse Kit	631341-B21
HPE USB UK Keyboard/Mouse Kit	631344-B21
HPE USB FR Keyboard/Mouse Kit	631346-B21
HPE USB ES Keyboard/Mouse Kit	631348-B21
HPE USB DE Keyboard/Mouse Kit	631358-B21
HPE USB JP Keyboard/Mouse Kit	631360-B21
HPE USB IT Keyboard/Mouse Kit	631362-B21
HPE USB CN Keyboard/Mouse Kit	631364-B21
HPE USB AE Keyboard/Mouse Kit	638212-B21
HPE USB RU Keyboard/Mouse Kit	638214-B21
HPE USB IN Keyboard/Mouse Kit	672097-D63
HPE USB AP/INTL Keyboard/Mouse Kit	672097-373
HPE USB INTL Keyboard/Mouse Kit	672097-B33
HPE USB PT Keyboard/Mouse Kit	672097-133
HPE USB TR Keyboard/Mouse Kit	672097-143
HPE USB CZ Keyboard/Mouse Kit	672097-223
HPE USB FI Keyboard/Mouse Kit	672097-353
HPE USB SE Keyboard/Mouse Kit	672097-103
HPE USB CH Keyboard/Mouse Kit	672097-113
HPE USB 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

HPE Rack LED Light Kit	BW939A
HP Kit LCD 1.83m Latch Display Port Cable	G7T29A
HP ConvergedSystem Door Branding Kit	TK815A
HP ConvergedSystem Rack Light Kit	TK816A
HP ConvergedSystem Rack Side Panel 1075mm Kit	TK817A

HPE Uninterruptible Power Systems (UPS)

HPE DirectFlow Three Phase UPS

Power Unit (1U UPS)

HPE R12000 DirectFlow - 1U Rackmount Uninterruptible Power System	G9Y75A
HPE R12000 DirectFlow - POD 1U Rackmount Uninterruptible Power System	AF478A
HPE RP12000/3 12000VA Three Phase INTL 6U Rackmount Uninterruptible Power System	AF437A

Input/Output Module Options for 1U UPS

HPE 32A 400-415 Volt Three Phase INTL R12000 DirectFlow UPS IEC309 Input/Output Module	AF488A
HPE 30A 400-415 Volt Three Phase NA R10000 DirectFlow UPS IEC309 Input/Output Module	AF489A
HPE 32A 380 Volt Three Phase China R12000 DirectFlow UPS Unterminated Input/Output Module	AF490A
HPE 30A 480 Volt Three Phase NA R12000 DirectFlow UPS L22-30 Input/Output Module	AF491A

Additional Options

HPE 30A 480 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module AF492A

HPE 30A 400-415 Volt Three Phase NA R12000 DirectFlow UPS IEC309 Input/Output Module G9Y76A

HPE DirectFlow UPS Management Card AF493A

Power Unit (2U UPS)

HPE R18000 DirectFlow - 2U Rackmount Uninterruptible Power System AF479A

Input/Output Module Options for 2U UPS

HPE 32A 400-415 Volt Three Phase INTL R18000 DirectFlow UPS IEC309 Input/Output Module AF483A

HPE 30A 380 Volt Three Phase China R18000 DirectFlow UPS Unterminated Input/Output Module AF485A

HPE 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module AF486A

HPE 30A 480 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module AF487A

HPE 30A 400 Volt Three Phase NA R18000 DirectFlow UPS IEC309 Input/Output Module D9Q02A

HPE 30A 400-415V Three Phase NA R18000 DirectFlow UPS 1:1 IEC309 Input/Output Module AF484A

NOTE: All Input/Output Modules support dual output outlets except the AF484A.

Battery Pack Options

HPE DirectFlow UPS - 1U Rackmount Lithium-ion Battery Pack AF480A

HPE DirectFlow UPS - 3U Rackmount VRLA Battery Pack AF482A

HPE WW DirectFlow Secondary Battery Cable AF497A

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

HPE Tower UPS

HPE T750 G4 UPS Models

HPE T750 G4 NA/JP Uninterruptible Power System J2P85A

HPE T750 G4 INTL Uninterruptible Power System J2P88A

HPE T1000 G4 UPS Models

HPE T1000 G4 NA/JP Uninterruptible Power System J2P86A

HPE T1000 G4 INTL Uninterruptible Power System J2P89A

HPE T1500 G4 UPS Models

HPE T1500 G4 NA/JP Uninterruptible Power System J2P87A

HPE T1500 G4 INTL Uninterruptible Power System J2P90A

HPE Rack-mountable UPS

HPE R/T2200 G4 UPS Models

HPE R/T2200 G4 NA/JP Uninterruptible Power System J2R00A

HPE R/T3000 G4 UPS Models

HPE R/T3000 G4 Low Voltage NA/JP Uninterruptible Power System J2R01A

HPE R/T3000 G4 High Voltage NA/JP Uninterruptible Power System J2R02A

HPE R/T3000 G4 High Voltage INTL Uninterruptible Power System J2R04A

R1500 G4 Models

HPE R1500 G4 NA Uninterruptible Power System J2Q99A

Additional Options

HPE R1500 G4 JP/TWN Uninterruptible Power System J2R05A

HPE R1500 G4 INTL Uninterruptible Power System J2R03A

R7000 Uninterruptible Power System (UPS)

HPE R7000 4U 50A High Voltage NA/JP Uninterruptible Power System AF462A

HPE R7000 4U IEC-32A High Voltage INTL Uninterruptible Power System AF463A

R5000 Uninterruptible Power System (UPS)

HPE R5000 3U L630 High Voltage NA/JP Uninterruptible Power System AF460A

HPE R5000 3U IEC309-32A High Voltage INTL Uninterruptible Power System AF461A

NOTE: Please see the [HPE Line Interactive Single Phase UPS QuickSpecs](#) for information on additional options and product specifications.

HPE UPS Options

HPE R/T2200 G4 Extended Runtime Module J2R09A

HPE R/T3000 G4 Extended Runtime Module J2R10A

HPE 2U Rack/Tower UPS Shipping Kit L4Q11A

NOTE: To learn more, please visit the [HPE Uninterruptible Power Systems \(UPS\) web page](#)

HPE USB and SD Options

HPE Enterprise Mainstream Flash Media Kits for Memory Cards

HPE 32GB microSD Mainstream Flash Media Kit 700139-B21

HPE 8GB microSD Enterprise Mainstream Flash Media Kit 726116-B21

HPE 8GB USB Enterprise Mainstream Flash Media Drive Key Kit 737953-B21

HPE Dual 8GB microSD Enterprise Midline USB Kit 741279-B21

Memory

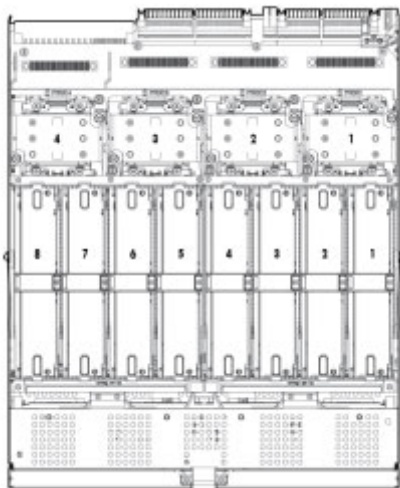
HPE SmartMemory

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.hpe.com/servers/ddr4memoryconfig>.

Memory Subsystem Architecture As shown in the figure below, memory cartridge to processor association as follows:

- Memory cartridges installed without a corresponding processor are not utilized:
 - Processor 1 corresponds to memory cartridges 1 and 2.
 - Processor 2 corresponds to memory cartridges 3 and 4.
 - Processor 3 corresponds to memory cartridges 5 and 6.
 - Processor 4 corresponds to memory cartridges 7 and 8.



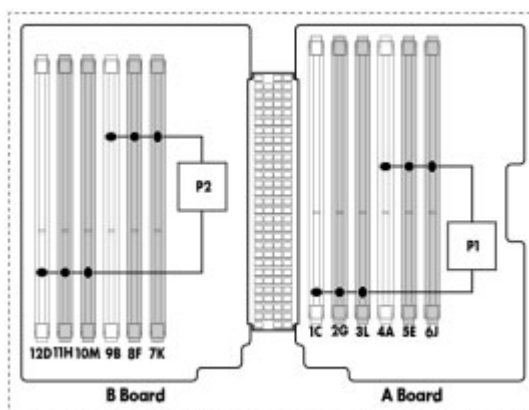
The server can operate in independent channel mode (performance) or combined channel mode (lockstep). Lockstep mode improves the system reliability and availability. If running with RDIMM (built with x4 DRAM devices), the system can survive the complete failure of two DRAM devices (DDDC). Running in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

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 quad-rank 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 (<http://www.hpe.com/servers/ddr4memoryconfig>).

Memory

Intel Gen9 Supported Memory Bandwidth for HPE ProLiant Gen9 Intel® Xeon® E7-4800v3/v4 Series Processor Family - running in 1:1 “Lockstep” mode

Memory Bandwidth and Capacity						
[DIMM Type]	Registered DIMMs (RDIMMs)			Load Reduced (LRDIMMs)		
HPE SKU P/N	726718-B21	726719-B21	728629-B21	726722-B21	726724-B21	809208-B21
DIMM Rank	Single Rank	Dual Rank	Dual Rank	Quad Rank	Quad Rank	Octal Rank (8R)
DIMM Capacity	8GB	16GB	32GB	32GB	64GB	128 GB
Voltage	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V
SLOTS THAT CAN BE POPULATED						
96 slot servers	96	96	96	96	96	96
MAXIMUM CAPACITY (GB)						
	768	1536	3072	3072	6144	12288
POPULATED DIMM SPEED (MT/s)						
1 DIMM Per Channel	1866	1866	1866	1866	1866	1866
2 DIMM Per Channel	1866	1866	1866	1866	1866	1866
3 DIMM Per Channel	1600	1333	1333	1600	1600	1333

NOTE: The values shown in the table above are for Lockstep Mode. For Performance Mode (running in 2:1), the values are identical except Populated DIMM Speed MT/s is 1600 for 1 DIMM per Channel and 2 DIMM per Channel.

Intel Gen9 Supported Memory Bandwidth for HPE ProLiant Gen9 Intel® Xeon® E7-8800v3/v4 Series Processor Family - running in 1:1 “Lockstep” mode.

Memory Bandwidth and Capacity						
[DIMM Type]	Registered DIMMs (RDIMMs)				Load Reduced (LRDIMMs)	
HPE SKU P/N	805347-B21	805349-B21	836220-B21	805351-B21	805358-B21	809208-B21
DIMM Rank	Single Rank	Single Rank	Dual Rank	Dual Rank	Quad Rank	Octal Rank (8R)
DIMM Capacity	8GB	16GB	16GB	32GB	64GB	128 GB
Voltage	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V	Std Voltage 1.2V
DRAM Depth [bit]	1G	1G	2G	2G	2G	2G
DRAM Width [bit]	x8	x4	x4	x4	x4	x4
DRAM Density	8Gb	8Gb	4Gb	8Gb	8Gb	8Gb

Memory

CAS Latency	17-17-17	17-17-17	17-17-17	17-17-17	17-17-17	20-18-18
DIMM Native Speed (MT/s)	2400	2400	2400	2400	2400	2400
SLOTS THAT CAN BE POPULATED						
96 slot servers	96	96	96	96	96	96
MAXIMUM CAPACITY (GB)						
	768	1536	1536	3072	6144	12288
POPULATED DIMM SPEED (MT/s)						
1 DIMM Per Channel	1866	1866	1866	1866	1866	1866
2 DIMM Per Channel	1866	1866	1866	1866	1866	1866
3 DIMM Per Channel	1600	1600	1333	1333	1600	1333

NOTE: The values shown in the table above are for Lockstep Mode. For Performance Mode (running in 2:1), the values are identical except Populated DIMM Speed MT/s is 1600 for 1 DIMM per Channel and 2 DIMM per Channel.

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	C	1	C	Chnl3
	2	G	2	G	
	3	L	3	L	
CPU 1			CPU 2		
	Slot #	Population order	Slot #	Population order	
Chnl 1	4	A	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	K	7	K	Chnl 2
	8	F	8	F	
	9	B	9	B	
CPU 1			CPU 2		
	Slot #	Population order	Slot #	Population order	
Chnl 4	10	M	10	M	Chnl 4
	11	H	11	H	
	12	D	12	D	

Memory

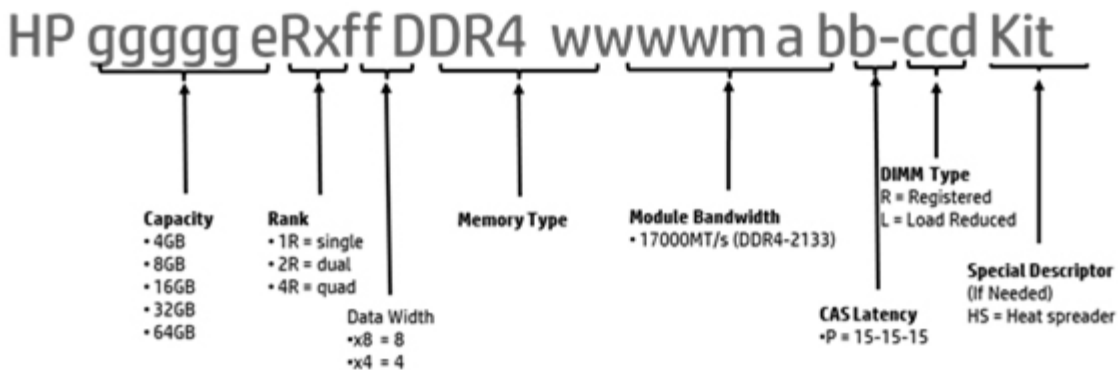
Memory Speed by Processor Model	Processor Models	Supported Memory Speeds
	E7-4809v4, E7-4820v4, E7-4830v4, E7-4850v4, E7-4850v3, E7-4830v3, E7-4820v3, E7-4809v3	1600MT/s
	E7-8893v4, E7-8891v4, E7-8860v4, E7-8867v4, E7-8870v4, E7-8880v4, E7-8890v4, E7-8890v3, E7-8894v4, E7-8880v3, E7-8870v3, E7-8860v3, E7-8891v3, E7-8893v3, E7-8880Lv3, E7-8867v3	1333/1600/1866MT/s

Standard and Maximum Memory Capacity (Pre-configured Models)	Pre Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
	E7-8893v4, E7-8893v3, E7-8890v4, E7-8890v3	256GB (16x16GB)	2816GB (80x32GB, 16x16GB)	12288GB (96x128GB)
	E7-4850v4, E7-4850v3	128GB (8x16GB)	2944GB (88x32GB, 8x16GB)	12288GB (96x128GB)
	E7-4809v4, E7-4809v3	64GB (4x16GB)	3008GB (92x32GB, 4x16GB)	12288GB (96x128GB)

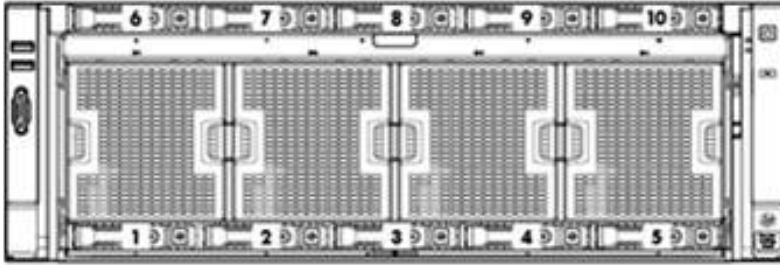
DDR4 memory options part number decoder

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
- 128GB = 131072MB



Storage



1-10 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.

Maximum Storage Capacity

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

Hot Plug SFF SAS	20 TB (10 x 2.0 TB)
Hot Plug SFF SAS SSD	19.2 TB (10 x 1.92 TB)
Hot Plug SFF SATA SSD	38.4 TB (10 x 3.84 TB)
Hot Plug SFF NVMe PCIe SSD	8 TB (5 x 1.6 TB)

Technical Specifications

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 (per power supply)	Rated Line Voltage	100 - 120 VAC (1200W PS only) 200 - 240 VAC (1200W & 1500W PS)
		Rated Input Current	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 (per power supply)	Rated Steady-State Power	800 W (100 VAC low line),900 W (120 VAC low line), 1200W (200 - 240 VAC) for 1200W PS
		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.hpe.com/info/hppoweradvisor .
	System Inlet Temperature	Standard Operating Support	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F).
		Extended Ambient Operating Support	For approved hardware configurations, the supported system inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3050 m (10,000 ft). The approved hardware configurations for this system are listed at the URL:

Technical Specifications

<http://www.hpe.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.hpe.com/servers/ashrae>

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

	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).
Relative Humidity (non-condensing)	Operating	10% to 90% relative humidity (Rh), 28°C (82.4°F) maximum wet bulb temperature, 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	Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109).	
	Idle	
	LWAd	6.8 B
	LpAm	51.2
	Operating	
	LWAd	6.9 B
	LpAm	51.2
Emissions Classification (EMC)	FCC Rating	Class A
	Normative Standards	CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1

NOTE: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.

Technical Specifications

HPE Smart Array P830i	Disk Drive and Enclosure Interface - Transfer rate	12Gb/s SAS, 6Gb/s SAS & SATA	
	SAS Connectors	2 internal x8 Mini-SAS double-wide internal	
	Cache Memory Speed	DDR3L 1866 MT/s with 72-bit wide bus	
	Speed	12Gb/s per physical link	
	Cache Memory	FBWC cache is required. 2 GB is included with BTO models. For CTO, 2 GB or 4 GB FBWC cache is required.	
	Host Memory Addressing	64-bit, supporting greater than 4GB server memory space	
	RAID Support	RAID 6, 60 (Advanced Data Guarding) RAID 5, 50 (Distributed Data Guarding) RAID 1, 10 (Drive Mirroring), RAID 1 ADM, 10 ADM (Advanced Data Mirroring) RAID 0 (Striping)	
HPE Ethernet 1Gb 4-port 331FLR Adapter	Network Interface Compatibility	10Base-T/100Base-TX/1000Base-TX 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	
	Data Transfer Method	PCI-Express 2.0 x4	
	Controller	BCM5719	
	Network Transfer Rate	10Base-T (Full-Duplex)	20 Mb/s
		100Base-TX (Full-Duplex)	200 Mb/s
		1000Base-TX (Full-Duplex)	2000 Mb/s
	Connector	Four RJ-45	
	Cable Support	10 Base-T	Categories 3, 4 or 5 UTP; up to 328 ft (100 m)
		100 Base-TX	Category 5 or higher UTP; up to 328 ft (100 m)
		1000 Base-TX	Category 5 or higher UTP; up to 328 ft (100 m)
HPE FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	Network Interface	IEEE 802.3 SFP+ (SX, SR & LR)	
	Compatibility	IEEE 802.3	
Environment-friendly Products and Approach	End-of-life Management and Recycling	Hewlett Packard Enterprise offers end-of-life product return, trade-in, and recycling programs, in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.	

<http://www.hpe.com/recycle>

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities.

Technical Specifications

This information (product disassembly instructions) is posted on the Hewlett Packard Enterprise web site. These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

<http://www.hpe.com/recycle>

Summary of Changes

Date	Version History	Action	Description of Change
2-Oct-2017	From Version 20 to 21	Added	Added 128GB memory. Added new Solid State Drives offering.
		Changed	Memory section was updated.
7-Aug-2017	From Version 19 to 20	Added	Added new Solid State Drives to the HPE Drives section.
		Changed	Pre-Configured Models and HPE Networking section were revised.
5-Jun-2017	From Version 18 to 19	Added	Added new Intel Xeon 8894 v4 processor. Added 12G SAS SSDs (MU and RI) support.
		Changed	Processors, Memory and HPE Drives were updated.
27-Mar-2017	From Version 17 to 18	Changed	HPE Storage Options section was revised.
		Removed	Secondary Riser was removed from Expansion Slots.
17-Feb-2017	From Version 16 to 17	Changed	HPE Memory section under Core Options was revised.
13-Feb-2017	From Version 15 to 16	Added	Added new HDD and SSD offering to the HPE Drives section.
28-Nov-2016	From Version 14 to 15	Added	Added new Hard Disk Drives and GPU options. Added new New 100Gb Omnipath networking card.
		Changed	HPE Computation and Graphics Accelerators, HPE Tape Backup
		Removed	Obsolete SKUs were removed from the QuickSpecs.
28-Oct-2016	From Version 13 to 14	Removed	Obsolete Hard Drives were removed from the QuickSpecs.
26-Sep-2016	From Version 12 to 13	Changed	HPE Converged Infrastructure Management Software was revised. Smart Buy models section was updated for the NA version.
15-Aug-2016	From version 11 to 12	Added	Added new InfiniBand and Storage options.
		Changed	Pre-configured Models and Memory were revised.
6-Jun-2016	From Version 10 to 11	Added	Added new Processors, Memory, HPE Drives, and HPE Disk Backup options.
		Changed	HPE Processors, Chipset, Upgradeability, Graphics, Pre-configured Models, Configuration Information - Factory Integrated Models, HPE Memory, HPE Computation and Graphics Accelerators, and Storage sections were revised.
8-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

Summary of Changes

			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 FlexibleLOM under Standard Features were revised. HPE Memory, HP Networking, and HPE Graphic Options under Core Options were revised. Memory section was revised.



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

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