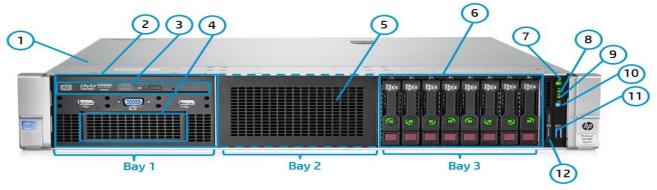


Overview

HP ProLiant DL380 Generation9 (Gen9)

The HP ProLiant DL380 Gen9 Server delivers the best performance and expandability in the HP 2P rack portfolio. Reliability, serviceability and near continuous availability, backed by a comprehensive warranty, make it ideal for any environment. Deploy the data center standard.



Front View - 8SFF Chassis with Optional Universal Media Bay shown

- 1. Quick removal access panel
- 2. Universal Media bay. 2 USB 2.0 and VGA standard (8SFF bay optional)
- 3. Optional Optical drive. Requires Universal Media bay
- 4. Optional 2 SFF HDD, blank shown. Requires Universal Media bay.
- 5. Drive Bay 2. Blank shown, 8SFF optional.
- 6. 8 SFF Drive Cage Bay
- 7. Power On/Standby button and system power LED button
- 8. Health LED
- 9. NIC status
- 10. UID button
- 11. USB 3.0
- 12. Serial label pull tag



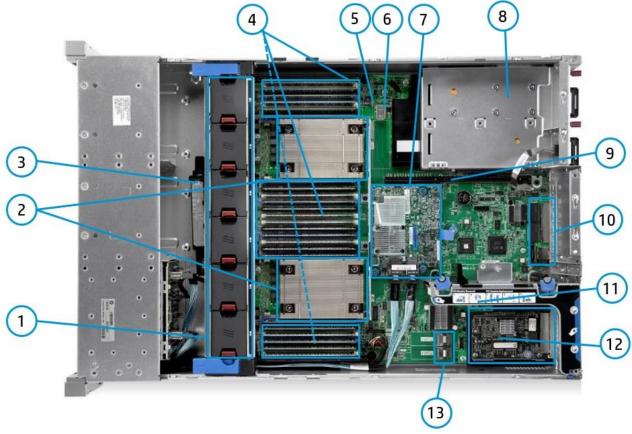
Rear view

- 1. PCI Slots (Slots 1-3 top to bottom, riser shipped standard)
- 2. PCI Slots (Slots 4-6top to bottom, requires second riser card, and second processor)
- 3. Optional serial port
- 4. Optional rear 2 SFF HDD (supported in 24 SFF or 12 LFF front end)
- 5. HP Flexible Slot Power Supply bay 1 (800w shown)
- 6. Power supply Power LED
- 7. Power supply Power connection
- 8. HP Flexible Slot Power Supply bay 2 (800w shown)
- 9. Power supply Power LED
- 10. Power supply Power connection
- 11. VGA connector



Overview

- 12. Embedded 4 x 1GbE Network Adapter
- 13. Dedicated iLO connector
- 14. USB 3.0 connectors (2)
- 15. Unit ID LED
- 16. Optional FlexibleLOM ports (Shown: 4 x 1GbE)



Internal View

- 1. Fan cage shown with 6 standard Hot-plug fans (High Ambient temperature fans optional)
- 2. 2 Processors, heatsink showing, with HP Smart Socket Guide
- 3. Optional HP Smart Storage Battery
- 4. DDR4 DIMM slots. Shown fully populated in 24 slots (12 per processor)
- 5. MicroSD card slot
- 6. Internal USB 3.0 connector
- 7. Optional HP Flexible Smart Array or Smart HBA (H240ar shown)
- 8. (Under) Hot Plug redundant HP Flexible Slot Power supplies
- 9. Connection for second (optional) riser (Required second CPU)
- 10. Embedded 4x1Gbe NIC
- 11. Primary PCIe riser, standard (Optional double wide GPU riser)
- 12. Optional Flexible LOM slot
- 13. X4 SATA ports (1 and 2)





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

Intel® Xeon® processor E5-2600 v3 product family is designed to deliver the best combination of performance, built-in capabilities, and costeffectiveness. One (or two) of the following Intel® Xeon® E5-2600 v3 processors based on the model

Processor Up to two of the following depending on Model

| Model | CPU frequency | Cores | L3 Cache | Power | QPI | DDR4 Hz |
|------------|---------------|-------|----------|-------|---------|---------|
| E5-2699v3 | 2.3GHz | 18 | 45MB | 145W | 9.6GT/s | 2133 |
| E5-2698v3 | 2.3GHz | 16 | 40MB | 135W | 9.6GT/s | 2133 |
| E5-2697v3 | 2.6GHz | 14 | 35MB | 145W | 9.6GT/s | 2133 |
| E5-2695v3 | 2.3GHz | 14 | 35MB | 120W | 9.6GT/s | 2133 |
| E5-2690v3 | 2.6GHz | 12 | 30MB | 135W | 9.6GT/s | 2133 |
| E5-2687Wv3 | 3.1GHz | 10 | 25MB | 160W | 9.6GT/s | 2133 |
| E5-2683v3 | 2.0GHz | 14 | 35MB | 120W | 9.6GT/s | 2133 |
| E5-2680v3 | 2.5GHz | 12 | 30MB | 120W | 9.6GT/s | 2133 |
| E5-2670v3 | 2.3GHz | 12 | 30MB | 120W | 9.6GT/s | 2133 |
| E5-2667v3 | 3.2GHz | 8 | 25MB | 135W | 9.6GT/s | 2133 |
| E5-2660v3 | 2.6GHz | 10 | 25MB | 105W | 9.6GT/s | 2133 |
| E5-2650v3 | 2.3GHz | 10 | 25MB | 105W | 9.6GT/s | 2133 |
| E5-2650Lv3 | 1.8GHz | 12 | 25MB | 65W | 9.6GT/s | 2133 |
| E5-2643v3 | 3.4GHz | 6 | 20MB | 135W | 9.6GT/s | 2133 |
| E5-2640v3 | 2.6GHz | 8 | 20MB | 90W | 8.0GT/s | 1866 |
| E5-2637v3 | 3.5GHz | 4 | 15MB | 135W | 9.6GT/s | 2133 |
| E5-2630v3 | 2.4Ghz | 8 | 20MB | 85W | 8.0GT/s | 1866 |
| E5-2630Lv3 | 1.8GHz | 8 | 25MB | 55W | 8.0GT/s | 1866 |
| E5-2623v3 | 3.0GHz | 4 | 10MB | 105W | 8.0GT/s | 1866 |
| E5-2620v3 | 2.4GHz | 6 | 15MB | 85W | 8.0GT/s | 1866 |
| E5-2609v3 | 1.9GHz | 6 | 15MB | 85W | 8.0GT/s | 1600 |
| E5-2603v3 | 1.6GHz | 6 | 15MB | 85W | 6.4GT/s | 1600 |

Note that all processors above 120W use a high efficiency Heatsink. Doublewide PCIe cards are only supported with this Heatsink. For processors with a standard Heatsink that require double wide cards we would need to leverage the Graphics Enablement kit (719082-B21)

Chipset Intel® C610 Series Chipset

Intel® E5-2600v3 Processor Family

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

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

On System

HP iLO (Firmware HP iLO4 2.0) 4GB NAND

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

QuickSpecs.

Memory

Type:

One of the following depending on Model **HP SmartMemory**

DDR4 Registered (RDIMM) or Load Reduced (LRDIMM)

(12 DIMM slots per processor, 4 channels per processor, 3 DIMMs per **DIMM Slots Available** 24

channel)

Maximum Capacity

768GB (24 x 32GB LRDIMM @2133MHz)

(LRDIMM) Maximum Capacity (RDIMM) 384GB

(24 x 16GB RDIMM @2133MHz)





Memory Protection

Advanced ECC uses single device data correction to detect and correct single andall

multibit error that occurs within a single DRAM chip.

Online spare Memory online spare mode detects a rank that is degrading and switchesoperation

to the spare rank.

Expansion Slots

| Primary Riser (Standard) | Expansion Slots# | Technology | Bus Width | Connector Width | Bus Number | Form Factor | Notes |
|-----------------------------|---------------------|------------|-----------|--------------------|------------|-----------------------------------|---------|
| | 1 | PCIe 3.0 | x16 | x8 | 7 | Full-height, half- length Slot | Proc 1 |
| | 2 | PCle 3.0 | x16 | x8 | 10 | Full-height, half- length Slot | Proc 1 |
| | 3 | PCIe 3.0 | x8 | x8 | 13 | Half Length, Full | Chipset |

^{*}Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number ** Indicates the number of physical electrical lanes running to the connector.

NOTE: All slots support up to 150w PCIe cards, but an additional Power Cord Option is required (PN 669777-B21). See Option Section below for offering.

Height Slot

Slot 2 PCIe Riser (Optional 3-slot) 719073-B21

| Expansion Slots# | Technology | Bus Width | Connector Width | Bus Number | Device Number | Form Factor | Notes |
|---------------------|------------|-----------|--------------------|------------|------------------|-----------------------------------|--------|
| 4 | PCle 3.0 | x16 | x16 | 16 | | Full Height, Full Length Slot | Proc 2 |
| 5 | PCle 3.0 | x16 | x16 | 20 | | Full Height, Full Length Slot | Proc 2 |
| 6 | PCIe 3.0 | x8 | x8 | 23 | | Full-height, half- length Slot | Proc 2 |

^{*} Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number ** 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 up to 150w PCIe cards, but an additional Power Cord Option is required (669777-B21). See Option Section below for offering.

Slot 1 PCIe Riser (Optional 2-slot) 719076-B21

| Expansion Slots # | Technology | Bus Width | Connector Width | Bus Number | Device Number | Form Factor | Notes |
|-------------------|------------|-----------|--------------------|------------|------------------|-----------------------------------|--------|
| 4 | PCIe 3.0 | x16 | x16 | 16 | | Full Height, Full Length Slot | Proc 1 |
| 5 | PCIe 3.0 | x8 | x8 | 16 | | Full-height, half- length Slot | Proc 1 |

^{*} Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number ** 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 up to 150w PCIe cards, but an additional Power Cord Option is required (669777-B21). See Option Section below for offering.

Storage Controller One of the following depending on Model

Entry Models

HP Dynamic Smart Array B140i Controller

NOTE: The embedded B140i controller will operate in UEFI only mode. For legacy support an additional controller will be needed, and for Factory Integrated orders please also select the Legacy mode settings part, 758959-B22.

Base Models HP Dynamic Smart Array B140i Controller

HP Flexible Smart Array P440ar/2G FIO Controller

HP Flexible Smart Array P840ar/4GB

Performance Models HP Dynamic Smart Array B140i Controller

HP Flexible Smart Array P440ar/2GB

Internal Storage Devices

Optical Drive

Ships standard in Performance Models





One of the following depending on Model

Optional: DVD-ROM, DVD-RW

Hard Drives None ship standard

8 SFF with optional Universal Media bay or 8SFF bay options

24 SFF plus optional 2 SFF drives rear 12 LFF plus optional 3 LFF drives rear

4 LFF drive bays total

NOTE: The Universal Media Bay (724865-B21) not available with the LFF Models or

the 24SFF Model, and can only be populated in Bay1

Hard Drive Bays NOTE: The 8SFF can be upgraded with a drive cage to 16 or 24 SFF with field

upgrades

NOTE: The 4LFF Model cannot be upgraded to 12LFF in the field.

NOTE: All Pre-configured Models come with an embedded 10-Port SATA controller. Optional HP Flexible Smart Array and Smart SAS HBA Controllers can be added.

NOTE: Only the 24SFF and 12LFF Models support rear drives.

NOTE: Universal media bay is not supported in the LFF configurations. Optical

support is offered via USB DVD-RW Drive (701498-B21)

| Maximum | Internal |
|---------|----------|
| Storage | |

| | CAPACITY | CONFIGURATION |
|-----------------------|----------|---|
| Hot Plug SFF SAS | 31.2TB | 24+2 \times 1.2TB (with optional rear SFF drive cage) |
| Hot Plug SFF SATA | 26.0TB | 24+2 x 1TB (with optional SFF drive cage) |
| Hot Plug LFF SAS | 90.0TB | 12+3 x 6TB (with optional rear LFF drive cage) |
| Hot Plug LFF SATA | 90.0TB | 12+3 x 6TB (with optional rear LFF drive cage) |
| Hot Plug SFF SAS SSD | 31.2TB | 24+2 x 1.6TB (with optional rear SFF drive cage) |
| Hot Plug LFF SATA SSD | 24.0TB | 12+3 x 1.6TB (with optional rear LFF drive cage) |
| | | |

Power Supply

HP 500W Flex Slot Platinum Hot Plug Power Supply

HP 800W Flex Slot Platinum Hot Plug Power Supply

HP 1400W Flex Slot Platinum Plus Hot Plug Power Supply

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

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

To review the power requirements for your selected system, please use the HP Power Advisor Tool located at www.hp.com/go/hppoweradvisor.

Power specifications and technical content for all HP Server power supplies can be found at www.hp.com/go/proliant/powersupply.

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

System Fans

One of the following depending on Model

Non-redundant

Redundant

6 fans

NOTE: 1P models typically ship with 4 standard fans. The second processor option kit contains 2 additional

NOTE: High Performance Temperature Fan Kit is available to meet ambient temperature environments (719079-B21)

NOTE: the 12LFF and 24SFF models ship with 6 High Performance fans as standard

NOTE: High Performance Temperature Fan Kit is required for GPU support.

NOTE: Additional HP 12Gb SAS Expander Card (727250-B21) and the 8SFF Bay kit (719067-B21) will ship with

6 High efficiency fans

2P model





Interfaces Serial optional

Video 2 (1 front, optional via Universal Media Bay, 724865-B21), 1 back not

active simultaneously

FlexibleLOM Network Ports 4 x 1Gb ports shipping standard with optional FlexibleLOM

1 Gb Dedicated

HP iLO Remote Management Network

Port

Micro SD Slot 1 Micro SD

NOTE: The Micro SD slot is not a hot-pluggable device. Customers should not attempt to plug an SD card into

the SD slot while the server is powered.

USB 3.0 Up to 5 total: 1 front, 2 rear, 2 internal (secure), 2 optional USB 2.0

front via Universal Media Bay

SID (Systems Insight Display) Optional

NOTE: The SID does not ship standard. It is available as a Factory Integrated option or as a field upgrade

(768900-B21)

Operating Systems and Virtualization Software Support for ProLiant Servers

Microsoft Windows Server

Canonical Ubuntu

Red Hat Enterprise Linux (RHEL)
SUSE Linux Enterprise Server (SLES)

Oracle Solaris VMware Citrix XenServer

NOTE: For more information on HP's Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server, please visit our Support Matrix at: http://www.hp.com/go/ossupport and our driver download page: http://www.hp.com/support/DL380Gen9

Upgradeability

Upgradeable to two processors (36 Cores)

NOTE: Processor upgrade available from Intel® Xeon® Processors E5-2600v3. Please contact HP Technology Sales (http://www.hp.com/support), your local HP Re-seller.

Up to 24 DIMM slots available for higher Memory capacity

FlexibleLOM connector for 1 Gigabit or 10 Gigabit networking options

HP Flexible Smart Array or Smart HBA Controllers Embedded 10-Port SATA, B140i as standard Optional 3 slot riser (x16, x16, x8), or 2 slot (x16, x8)

NOTE: To take advantage of the additional 3 PCI slot upgrade, the second processor must be installed.

Redundant Power Supply

Optical Drive supported via Universal Media Bay

NOTE: The Universal Media bay provides front VGA and 2xUSB, plus ability to add 2SFF and Optical. **NOTE:** Universal Media bay only available with 8 or 8+8SFF models & can be populated in Bay1 only.

HP Legacy Mode (FIO only, 758959-B22)

NOTE: UEFI is the default model for Factory Integrated and Preconfigured models. Can change default to legacy via

Factory Integration.

Industry Standard Compliance

ACPI 2.0b Compliant PCIe 3.0 Compliant PXE Support

WOL Support

Microsoft® Logo certifications

USB 3.0 Support USB 2.0 Support

NOTE: This support is on the optional Universal Media Bay

Energy Star ASHRAE A3/A4

For details on configurations supporting ASHRAE A3/4 please see: www.hp.com/servers/ASHRAE

UEFI (Unified Extensible Firmware Interface Forum)

NOTE: UEFI is the default for the DL380 Gen9. Legacy model can be selected in the field, or as a Factory

Integration option (758959-B22)





Graphics

Integrated Matrox G200eH2 video standard with 16MB of Video RAM

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

HP iLO 4 On System Management Memory

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

HP Server UEFI/Legacy ROM

HP Server UEFI /Legacy ROM

Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability and more secured configuration while interacting with your server at boot time. HP 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 HP ROM-Based Setup Utility (RBSU) of legacy BIOS. For more information, please visit http://www.hp.com/go/proliantuefi/docs.

UEFI enables numerous new capabilities specific to HP 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 HP RESTful API.
- PXE boot support for IPv6 networks
- Boot support for option cards that only support a UEFI option ROM

For more information please visit http://www.hp.com/go/proliant/uefi

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

NOTE: Legacy model can be enabled with Factory Integrated models (758959-B22). All standard skus ship with UEFI as default.

Form Factor

One of the following depending on Model

2U Rack form factor

8 SFF & 24SFF Drive Bay Version:

3.44 x 17.54 x 26.75 in (8.73 x 44.55 x 67.94 cm)

4 LFF & 12LFF Drive Bay Version:

3.44 x 17.54 x 28.75 in (8.73 x 44.55 x 73.02 cm)

NOTE: Dimensions without bezel

Embedded Management

HP Integrated

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

Lights-Out (HP iLO) management with iLO. Learn more at www.hp.com/go/ilo.

UEFI Configure and boot your servers securely with industry standard Unified Extensible

Firmware Interface (UEFI). Learn more at www.hp.com/go/ProLiant/uefi.

HP RESTful API RESTful API is an application programming interface. RESTful Web Service API served by

iLO's web server www.hp.com/go/restfulapi.

Intelligent

Provision servers by discovering and deploying 1 to few servers with Intelligent

Provisioning Provisioning. Learn more at www.hp.com/go/intelligentprovisioning.





Support

Embedded Remote HP's embedded remote support, used with Insight Online direct connect or HP Insight Remote Support, allows HP ProLiant servers to transmit hardware events directly to HP or an HP Authorized Partner for automated phone home support. Learn more at

www.hp.com/go/insightonline/info.

Server utilities

HP Smart Update

Optimize firmware and driver updates with HP Smart Update solutions.

Learn more at www.hp.com/go/smartupdate.

HP Systems Insight Manager (HP

SIM)

HP SIM allows you to monitor the health of your HP ProLiant Servers and HP

Integrity Servers, and also provides you with basic support for non-HP

servers.

HP SIM also integrates with HP SUM to provide quick and seamless firmware

updates. Learn more at www.hp.com/go/sim.

Scripting Tool Kit and Windows

PowerShell

Provision 1 to many servers using your own scripts to discover and deploy them with HP Scripting Tool Kit for Windows and Linux or HP Scripting Tools for Windows PowerShell. Learn more at www.hp.com/go/ProLiantSTK or

www.hp.com/go/powershell.

HP RESTful Interface Tool HP RESTful Interface tool is a scripting tool to provision servers using

RESTful API Interface to discover and deploy servers at scale. Learn more at

www.hp.com/go/restfulapi.

HP 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: www.hp.com/go/ilo/mobileapp.

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

warranty, Care Pack or contractual support agreement with HP, is a personalized dashboard for simplified tracking of IT operations and support

information from anywhere, anytime. Learn more at

www.hp.com/go/insightonline/info.

Security

Power-on password Serial interface control Administrator's password

UEFI

iLO 4 (Integrated Lights-Out 4) has 12 customizable user accounts and SSL encryption

Integrated Lights-Out can be disabled via a Global Setting iLO Advanced supports directory services integration

TPM 1.2

Warranty

This product is covered by a global limited warranty and supported by HP Services and a worldwide network of HP 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 HP Care Pack services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

NOTE: Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Mandatory CSR parts are designed for easy replacement. A travel and labor charge will result when customers decline to replace a Mandatory CSR part; 2) Optional CSR parts are also designed for easy replacement but may involve added complexity. Customers may choose to have HP replace Optional CSR parts at no charge. Additional information regarding worldwide limited warranty and technical support is available at: http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html





Optional Features

Embedded Management

iLO Advanced

HP iLO Advanced licenses offer smart remote functionality without compromise, for all HP 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 HP iLO Advanced at www.hp.com/go/iloadvanced.

Server Management

HP Insight Control

HP 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.hp.com/go/insightcontrol.

HP OneView

Powerful converged management of servers, storage, and network for IT service automation and infrastructure simplicity, see www.hp.com/go/oneview.

Management Utility (CMU)

HP Insight Cluster HP Insight Cluster Management Utility is a hyperscale-optimized management framework that includes software for the provisioning, control, performance management and monitoring of groups of nodes and infrastructure. Learn more

at www.hp.com/go/cmu.

Rack and Power Infrastructure

HP Rack and Power Infrastructure products and services create highly efficient and intelligent solutions for existing or new IT data centers. HP 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, HP is uniquely positioned to address the key concerns of power, cooling, cable management and system access.

Learn more at HP Rack and Power Infrastructure.

High Performance Clusters

HP 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 HPC Server. A Cluster Platform Configurator simplifies ordering. http://www.hp.com/go/clusters.

HPC Interconnects

NOTE: High Performance Computing (HPC) interconnect technologies are available for this server under the HP Cluster Platform product portfolio. These high-speed interconnects are fully supported by HP 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 HPC Clusters with InfiniBand Interconnects: http://www.hp.com/techservers/clusters/ucp/index.html

Storage Software

Whether you need to solve a specific data protection, archiving, or storage command and control challenge, or deliver on strategic consolidation, compliance, or continuity initiatives, look no further than HP 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. HP data protection and recovery software will cost-effectively protect you against disaster and ensure business continuity.

Data Archive and Migration Software

HP's 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)

HP's 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

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





Optional Features

• Storage Device Management Software

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

HP StoreVirtual VSA

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

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

One Config Simple (SCE)

SCE is a guided self-service tool to help sales and non-technical people provide customers with initial configurations in 3 to 5 minutes. You may then send the configuration on for configuration help, or use in your existing ordering processes. If you require "custom" rack configuration or configuration for products not available in SCE, please contact HP's Customer Business Center or an Authorized Partner for assistance. http://www.hp.com/products/configurator.





Service and Support

HP Technology Services

HP Technology Services delivers confidence, reduces risk and helps customers realize agility and stability. Connect to HP to help prevent problems and solve issues faster. Our support technology lets you to tap into the knowledge of millions of devices and thousands of experts to stay informed and in control, anywhere, any time.

Protect your business beyond warranty with HP Care Pack Services

HP Care Pack Services enable you to order the right service level, length of coverage and response time as you purchase your new server, giving you full entitlement for the term you select.

Optimized Support recommendation

HP Proactive Care - Call to Repair commitment, 24x7 coverage, three year Care Pack Service

Prevent problems and stabilize IT by utilizing secure, real-time, predictive analytics and proactive consultations when your products are connected to HP. Includes enhanced escalation management and the industry's highest level of hardware support commitment – hardware will be returned to operating conditions within six (6) hours after you open your case. Comes with collaborative software call management with two hour call back to reduce troubleshooting.

As a leading global support provider for Microsoft, Red Hat, VMware, SUSE and other operating systems, HP is able to simplify and shorten your time to resolution with one call for hardware or software questions. http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855ENW.pdf

HP ProLiant Server Hardware Installation

Help ensure your new HP ProLiant hardware is installed smoothly, efficiently and with minimal disruption to your IT and business operations. http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf

Standard Support recommendation

HP Proactive Care - 24x7 coverage, three year Care Pack Service

This service helps prevent problems and stabilize IT by utilizing secure, real-time, predictive analytics and proactive consultations when your products are connected to HP. Includes four hour response for hardware, and collaborative call management for software with a two hour callback. http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855ENW.pdf

HP ProLiant ML350 Hardware Installation

Help ensure your new HP ProLiant hardware is installed smoothly, efficiently and with minimal disruption to your IT and business operations. http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf

Related Services

Data Center Platform Consulting Services

These services help modernize key systems and leverage new technology to support a changing business climate and prepare you for the new style of IT. HP understands the needs of the data center of the future and will serve as your quide for the journey. www.hp.com/services/consulting

Data Privacy Services

Protect your data through better media management. HP Data privacy services help manage and protect sensitive data. www.hp.com/services/dataprivacy

Factory Express for Servers and storage

HP Factory Express offers configuration, customization, integration and deployment services for HP servers and storage products. Choose how your factory solutions are built, tested, integrated, shipped and deployed. http://www.hp.com/go/factory-express

HP Foundation Care

Hardware and software support services provide easy connection to HP to resolve support issues quickly. Includes collaborative call management for industry leading software; full software support may also be purchased, giving you one place to call for help.www.hp.com/services/foundationcare

Additional HP Care Pack services can be found at: www.hp.com/go/cpc

Parts and Materials

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





Service and Support

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product quick-specs, 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 HP due to malfunction.





Pre-configured Models

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

- 1. Pre-configured models ship with the configurations below. Options can be selected from the Core or Additional options section of this QuickSpecs.
- 2. HP does not allow factory integration of options into pre-configured models. Any additional options purchased will be shipped separately.
- 3. If you desire a custom configuration please see "Configuration Information Factory Integrated Models" section of this QuickSpecs.

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

NOTE: All pre-configured servers ship with a standard 6-foot IEC C-13/C-14 jumper cord (AOKO2A). This jumper cord is also included with each standard AC power supply option kit. If a different power cord is required, please check the ProLiant Power Cables web page.

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

Entry Models

| [SKU Number] | 766342-B21 | 752686-B21 | 752688-B21 | 752687-B21 |
|-------------------------|---|--|--|---|
| | HP ProLiant DL380 Gen9 E5- 2609v3 1P 8GB-R B140i 4LFF SATA 500W PS Entry Server | HP ProLiant DL380 Gen9 E5- 2609v3 1P 8GB-R B140i 8SFF SATA 500W PS Entry Server | HP ProLiant DL380 Gen9 E5- 2620v3 1P 16GB-R P440ar 12LFF 2x800W PS Base Server | HP ProLiant DL380 Gen9 E5- 2620v3 1P 16GB-R P440ar 8SFF 500W PS Base Server |
| Processor | Intel® Xeon® E5-2609v3 | Intel® Xeon® E5-2609v3 | Intel® Xeon® | ® E5-2620v3 |
| Number of Processors | | C |)ne | |
| Memory | 8GB (1x8GB Registered DIMMs, 2133 MHz) NOTE: with the E5-2609v3 this memory DIMM will only operate at 1600MHz | 8GB (1x8GB Registered DIMMs, 2133 MHz)NOTE: with the E5-2609v3 this memory DIMM will only operate at 1600MHz | | s, 2133 MHz)NOTE: with the E5- vill only operate at 1866MHz |
| Network Controller | | HP Embedded 1Gb Ethe | ernet 4-port 331i Adapter | |
| Storage Controller | HP Dynamic Smart Array B140i | | HP Flexible Smart Array P440/4G Controller | HP Flexible Smart Array P440ar/2GB |
| Hard Drive | None ship standard | | None ship standard; includes 10 LFF hard drive blanks | None ship standard |
| Internal Storage | 4 LFF HDD Bays | 8 SFF HDD Bays | 12 LFF HDD Bays | 8 SFF HDD Bays |
| | Optional via HP Mobile USB DVDRW Drive (701498-B21) | Optional via Universal Media Bay | Optional via HP Mobile USB DVDRW Drive (701498-B21) | Optional via Universal Media Bay |
| PCI-Express Slots | 3 PCIe si | ots (+3 PCI slots available with u | pgrade option, second processor | required) |
| Power Supply | (1) HP 500W Flex Slot F | Platinum Power Supply | (2) HP 800W Flex Slot Platinum Power Supply | (1) HP 500W Flex Slot Platinum Power Supply |
| Fans | 4 hot plug fans, redundant | 4 hot plug fans, redundant | 6 hot plug high performance temperature fans, redundant | 4 hot plug fans, redundant |
| Management | iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional), Insight Control (optional), HP OneView (optional) | | telligent Provisioning (standard), itrol (optional), HP OneView (optic | |
| Form Factor | Rack (2U), HP E | asy Install Rails | Rack (2U), HP Easy I | nstall Rails with CMA |
| Warranty | Server Warranty inclu | ıdes 3-Year Parts, 3-Year Labor, | 3-Year Onsite support with next b | ousiness day response |





Pre-configured Models

Performance Models

| [SKU Number] | 752689-B21 |
|----------------------|--|
| Model Name | HP ProLiant DL380 Gen9 E5-2650v3 2P 32GB-R P440ar 8SFF 2x10Gb 2x800W Perf Server |
| Processor | Intel® Xeon® E5-2650v3 |
| Number of Processors | Тwo |
| Memory | 32GB (2x16GB Registered DIMMs, 2133 MHz) |
| Network Controller | HP Embedded 4x1Gb, plus 2x10Gb-T Flexible LOM |
| Storage Controller | HP Flexible Smart Array P440ar/2GB |
| Hard Drive | None ship standard |
| Internal Storage | 8 SFF HDD Bays |
| Optical Drive | HP Half-Height SATA DVD-RW Optical Drive |
| PCI-Express Slots | 6 PCIe slots (includes second riser slot upgrade option) |
| Power Supply | (2) HP 800W Flex Slot Platinum Power Supply |
| Fans | 4 hot plug fans, redundant |
| Management | iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (standard), HP OneView (optional) |
| Energy Star | Meets Energy Star requirements |
| Form Factor | Rack (2U), HP Easy Install Rails with CMA |
| Warranty | Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response |

Note that UEFI is the standard default for all Predefined models





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, HP recommends the use of an HP approved configurator. Contact your local sales representative for information on configurable product offerings and requirements.

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

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

| _ | | | | | |
|--------------------|---|--|---|--|--|
| CTO Server Model | HP ProLiant DL380 Gen9 8SFF Configure-to-order Server | HP ProLiant DL380 Gen9 24SFF Configure-to-order Server | HP ProLiant DL380 Gen9 12LFF Configure-to-order Server | | |
| SKU Number | 719064-B21 | 767032-B21 | 719061-B21 | | |
| Processor | | 2 (optional) x HP Smart Socket Guides | | | |
| DIMMSlots | 2 | 4 DIMM slots for RDIMM, LRDIMM DDR4 Mem | nory | | |
| Storage Controller | HP Dynamic Smart Arra | ray B140i, plus optional HP Flexible Smart Array or Smart HBA controller | | | |
| PCIe | 3 PCIe slots (+3 PC | 3 PCIe slots (+3 PCI slots available with upgrade option, second processor required) | | | |
| Drive Cage | 8SFF Hot Plug | 24SFF Hot Plug | 12LFF Hot Plug | | |
| Network Controller | HP Embedded 10 | Gb Ethernet 4-port 331i Adapter, plus optional HP Flexible LOM | | | |
| Fans | 4 hot plug fans, redundant | 6 hot plug high performance t | temperature fans, redundant | | |
| Management | iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (optional), Insight Control (optional), HP OneView (optional) | iLO Management (standard), Intelligent (optional), Insight Control (opt | | | |
| USB | 1 front, 1 internal, 2 rear, (2 front optional) | 1 front, 1 into | ernal, 2 rear | | |
| Ears | | HP Quick Release Ears | | | |

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

HP Processors Entry Processors - E5-2600v3 series Processors

| HP DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) FIO Processor Kit | 719053-L21 |
|---|------------|
| HP DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) FIO Processor Kit | 719052-L21 |
| Base Processors - E5-2600v3 series Processors | |
| HP DL380 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) FIO Processor Kit | 719051-L21 |
| HP DL380 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) FIO Processor Kit | 779556-L21 |
| HP DL380 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) FIO Processor Kit | 719050-L21 |
| HP DL380 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) FIO Processor Kit | 719060-L21 |
| HP DL380 Gen9 Intel® Xeon® E5-2637v3 (3.5GHz/4-core/15MB/135W) FIO Processor Kit | 719058-L21 |
| NOTE: Ships with a High Performance Heatsink | |
| HP DL380 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) FIO Processor Kit | 719049-L21 |
| Performance Processors - E5-2600v3 series Processors | |
| HP DL380 Gen9 Intel® Xeon® E5-2643v3 (3.4GHz/6-core/20MB/135W) FIO Processor Kit | 719057-L21 |
| NOTE: Ships with a High Performance Heatsink | |
| HP DL380 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) FIO Processor Kit | 719048-L21 |
| HP DL380 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) FIO Processor Kit | 719059-L21 |
| HP DL380 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) FIO Processor Kit | 762764-L21 |
| HP DL380 Gen9 Intel® Xeon® E5-2667v3 (3.2GHz/8-core/20MB/135W) FIO Processor Kit | 719056-L21 |
| NOTE: Ships with a High Performance Heatsink | |
| HP DL380 Gen9 Intel® Xeon® E5-2670v3 (2.3GHz/12-core/30MB/120W) FIO Processor Kit | 719046-L21 |
| NOTE: Ships with a High Performance Heatsink | |
| HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) FIO Processor Kit | 762766-L21 |
| NOTE: Ships with a High Performance Heatsink | |





Configuration Information - Factory Integrated Models

| HP DL380 Gen9 Intel® Xeon® E5-2683v3 (2GHz/14-core/35MB/120W) FIO Processor Kit NOTE: Ships with a High Performance Heatsink | 719055-L21 |
|---|-------------|
| HP DL380 Gen9 Intel® Xeon® E5-2690v3 (2.6GHz/12-core/30MB/135W) FIO Processor Kit NOTE: Ships with a High Performance Heatsink | 719044-L21 |
| HP DL380 Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W) FIO Processor Kit NOTE: Ships with a High Performance Heatsink | 762760-L21 |
| HP DL380 Gen9 Intel® Xeon® E5-2697v3 (2.6GHz/14-core/35MB/145W) FIO Processor Kit NOTE: Ships with a High Performance Heatsink | 719054-L21 |
| HP DL380 Gen9 Intel® Xeon® E5-2698v3 (2.3GHz/16-core/40MB/135W) FIO Processor Kit NOTE: Ships with a High Performance Heatsink | 781913-L21 |
| HP DL380 Gen9 Intel® Xeon® E5-2699v3 (2.3GHz/18-core/45MB/145W) FIO Processor Kit NOTE: Ships with a High Performance Heatsink | 781915-L21 |
| HP DL380 Gen9 Intel® Xeon® E5-2687Wv3 (3.1GHz/10-core/25MB/160W) FIO Processor Kit | 762768-L21 |
| NOTE: If two processors are desired, select one xxxxxx-L21 and one xxxxxx-B21. NOTE: Up to 2 processors are supported. Mixing different processor models is not supported. NOTE: DDR4 speed is the maximum memory speed of the processor. Actual memory speed may dequantity and type of DIMMs installed. | pend on the |
| NOTE: For the Intel® C600 Chipset E5-2600 Series, the letter preceding the model number indicate Line (E3, E5, E7); $2600x v\#$, $2 = number$ of CPUs in a Node, 4 is socket/segment designation, $00 = Px = L$ for low power SKUs and $v\#$ (not yet designated) = version number | |

HP Memory

Registered DIMMs (RDIMMs) for E5-2600v3 Series

NOTE: The following memory is supported by the E5-2600v3 series Processors.

| 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 |

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

NOTE: The following memory is supported by the E5-2600v3 series Processors.

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

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

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

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

NOTE: Kits described as LP include Low Power DIMMs. For more information on ProLiant energy efficient features, see: www.hp.com/go/proliant-energy-efficient

NOTE: Depending on the memory configuration and processor model, the memory speed may run at 2133 MHz, 1866 MHz, 1600 MHz or 1333 MHz. Please see Memory Population Table or the Online Memory Configuration Tool at: www.hp.com/go/ddr4memory-configurator

HP Power Supplies

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

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

HP Flex Slot Platinum Power supplies

| HP 500W Flex Slot Platinum Hot Plug Power Supply Kit | 720478-B21 |
|--|------------|
| HP 800W Flex Slot Platinum Hot Plug Power Supply Kit | 720479-B21 |
| HP 1400W Flex Slot Platinum Plus Hot Plug Power Supply Kit | 720620-B21 |

NOTE: The above power supply options are all 80Plus Platinum-certified with an efficiency rating of up to 94%. Support for HP Power Discovery Services is included with the 1400W Flex Slot option. Power specifications and technical content for all HP Server power supplies can be found at www.hp.com/go/proliant/powersupply. **NOTE:** Maximum of 2 Flex Slot Power Supplies per platform.



Configuration Information - Factory Integrated Models

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

Embedded B140i Settings

HP Enable Kit Hamer BIOS Setting

HP Legacy FIO Mode Setting

784308-B21

NOTE: enable the embedded B140i controller for RAID and Hot-plug capabilities

758959-B22

NOTE: UEFI is the default, this part can be used to enable Legacy mode. If Legacy FIO Mode Setting is selected, then the embedded B140i will no longer be a primary controller and an HP Storage Controller must be selected.

HP Storage Controllers **SAS Controllers**

HP Flexible Smart Array Controllers

HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int FIO SAS Controller 749974-B21

NOTE: Includes the HP Smart Storage Battery

HP H240ar 12Gb 1-port Int FIO Smart Host Bus Adapter 749976-B21

HP Smart Array Controllers

HP Smart Array P440/4GB FBWC 12Gb 1-port Int FIO SAS Controller

761872-B21

HP Smart Array P840/4GB FBWC 12Gb 2-ports Int FIO SAS Controller

761874-B21

NOTE: The embedded B140i standard on all CTO servers only supports SATA hard drives. To enable the B140i controller, the Enable Kit Hamer BIOS Setting (784308-B21) must be selected. This allows for RAID and Hot-plug

capabilities.

NOTE: SAS Controllers can support both SATA and SAS hard drives.

HP Insight Software HP Insight Control

HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Single Server FIO C6N36A

icense

HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle FIO Electronic License C6N36ABE

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





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

| HP Unique Options | HP DL380 Gen9 Universal Media Bay Kit NOTE: The HP DL380 Gen9 Universal Media bay provides front VGA and 2xUSB 3.0; plus support for 2xSFF front drives (724864-B21) and ODD support (Not included); and can only be located in Bay1 in either a 8SFF or 8+8SFF model. NOTE: This can only be populated in Bay1 | 724865-B21 |
|-------------------|---|--------------------------|
| | HP DL380 Gen9 Graphics Enablement Kit NOTE: This kit includes alternative 2 Heatsinks plus 6 cables to enable GPU support with a 2P configuration. Other limitations apply, see Graphic section for more details. | 719082-B21 |
| | HP DL380 Gen9 High Performance Temperature Fan Kit NOTE: This kit is required for specific Ambient temperature environments, more details here: www.hp.com/go/proliant/Ashrae NOTE: This kit is required for some GPGPU options, please see Graphics section for more details by card. | 719079-B21 |
| | HP DL380 Gen9 2SFF Front/Rear SAS/SATA Kit NOTE: For 2SFF front the Universal Media Bay (724865-B21) is required. NOTE: 2SFF in the rear is only supported with a 24SFF or 12LFF (719061-B21) model. | 724864-B21 |
| | HP DL380 Gen9 3LFF Rear SAS/SATA Kit NOTE: This is only supported in the 12LFF model (719061-B21) NOTE: 3LFF rear drives will consume the 2nd riser expansion slot. | 768856-B21 |
| | HP DL380 Gen9 Primary 2 Slot GPU Ready Riser Kit Slot1: 1x Gen3 x16 FH/FL, 1xGen3 x8 FH/HL | 719076-B21 |
| | HP DL380 Gen9 Secondary 3 Slot GPU Ready Riser Kit Slot2: 2xGen3 x16 FH/FL, 1xGen3 x8 FH/HL | 719073-B21 |
| | HP DL380 Gen9 8SFF Bay1 Cage/Backplane Kit NOTE: To add an additional 8SFF drive cage in Bay1. NOTE: This ships with 6 High Efficiency Fans. NOTE: Selecting this option does not allow you to select the Universal Media Bay. | 719067-B21 |
| | HP DL380 Gen9 Additional 8SFF Bay2 Cage/Backplane Kit NOTE: To add an additional 8SFF drive cage in Bay 2. | 768857-B21 |
| | HP 12Gb SAS Expander Card with Cables for DL380 Gen9 NOTE: SAS expander to enable 24SFF field upgrade NOTE: This kit included 6 High Efficiency Fans. | 727250-B21 |
| | HP DL380 Gen9 Systems Insight Display Kit NOTE: The Systems Insight Display no longer ships as standard, but is available as a Factory Integrated, or field upgrade option. | 768900-B21 |
| HP Processors | Entry Processors - E5-2600v3 series Processors | |
| | HP DL380 Gen9 Intel® Xeon® E5-2603v3 (1.6GHz/6-core/15MB/85W) Processor Kit | 719053-B21 |
| | HP DL380 Gen9 Intel® Xeon® E5-2609v3 (1.9GHz/6-core/15MB/85W) Processor Kit | 719052-B21 |
| | Base Processors - E5-2600v3 series Processors | 7400F4 D24 |
| | HP DL380 Gen9 Intel® Xeon® E5-2620v3 (2.4GHz/6-core/15MB/85W) Processor Kit | 719051-B21 |
| | HP DL380 Gen9 Intel® Xeon® E5-2623v3 (3GHz/4-core/10MB/105W) Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2630v3 (2.4GHz/8-core/20MB/85W) Processor Kit | 779556-B21 |
| | HP DL380 Gen9 Intel® Xeon® E5-2630Lv3 (2.4GHz/8-core/20MB/85W) Processor Kit HP DL380 Gen9 Intel® Xeon® E5-2630Lv3 (1.8GHz/8-core/20MB/55W) Processor Kit | 719050-B21 719060-B21 |
| | HP DL380 Gen9 Intel® Xeon® E5-2637v3 (3.5GHz/4-core/15MB/135W) Processor Kit | 719060-B21 719058-B21 |
| | NOTE: Ships with a High Performance Heatsink | |
| | HP DL380 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit | 719049-B21 |
| | Performance Processors - E5-2600v3 series Processors | 7100E7 P21 |
| | HP DL380 Gen9 Intel® Xeon® E5-2643v3 (3.4GHz/6-core/20MB/135W) Processor Kit NOTE: Ships with a High Performance Heatsink | 719057-B21 |
| | HP DL380 Gen9 Intel® Xeon® E5-2650v3 (2.3GHz/10-core/25MB/105W) Processor Kit | 719048-B21 |



HP DL380 Gen9 Intel® Xeon® E5-2650Lv3 (1.8GHz/12-core/30MB/65W) Processor Kit

HP DL380 Gen9 Intel® Xeon® E5-2660v3 (2.6GHz/10-core/25MB/105W) Processor Kit

719059-B21

762764-B21



| HP DL380 Gen9 Intel® Xeon® E5-2667v3 (3.2GHz/8-core/20MB/135W) Processor Kit NOTE: Ships with a High Performance Heatsink | 719056-B21 |
|---|------------|
| HP DL380 Gen9 Intel® Xeon® E5-2670v3 (2.3GHz/12-core/30MB/120W) Processor Kit NOTE: Ships with a High Performance Heatsink | 719046-B21 |
| HP DL380 Gen9 Intel® Xeon® E5-2680v3 (2.5GHz/12-core/30MB/120W) Processor Kit NOTE: Ships with a High Performance Heatsink | 762766-B21 |
| HP DL380 Gen9 Intel® Xeon® E5-2683v3 (2GHz/14-core/35MB/120W) Processor Kit NOTE: Ships with a High Performance Heatsink | 719055-B21 |
| HP DL380 Gen9 Intel® Xeon® E5-2690v3 (2.6GHz/12-core/30MB/135W) Processor Kit NOTE: Ships with a High Performance Heatsink | 719044-B21 |
| HP DL380 Gen9 Intel® Xeon® E5-2695v3 (2.3GHz/14-core/35MB/120W) Processor Kit NOTE: Ships with a High Performance Heatsink | 762760-B21 |
| HP DL380 Gen9 Intel® Xeon® E5-2697v3 (2.6GHz/14-core/35MB/145W) Processor Kit NOTE: Ships with a High Performance Heatsink | 719054-B21 |
| HP DL380 Gen9 Intel® Xeon® E5-2698v3 (2.3GHz/16-core/40MB/135W) Processor Kit NOTE: Ships with a High Performance Heatsink | 781913-B21 |
| HP DL380 Gen9 Intel® Xeon® E5-2699v3 (2.3GHz/18-core/45MB/145W) Processor Kit NOTE: Ships with a High Performance Heatsink | 781915-B21 |
| HP DL380 Gen9 Intel® Xeon® E5-2687Wv3 (3.1GHz/10-core/25MB/160W) Processor Kit | 762768-B21 |

NOTE: Up to 2 processors supported in each model. Performance and Energy Star Preconfigured Models include two processors.

NOTE: HT indicates that the processor model supports Intel® Hyper-Threading Technology

NOTE: Turbo2: Intel® Turbo Boost Technology 2.0 provides more computing power when you need it with performance that adapts to spikes in your workload and delivers more performance upside than then previous generation turbo technology.

NOTE: DDR4 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

NOTE: All xxxxxx-B21 processors ship with 2 additional FANs for factory of field installation.

NOTE: Double wide PCle cards are only supported in risers with the Processors leveraging the High Performance Heatsink. For Processors requiring double wide GPU support please order the GPU enablement kit (719082-B21)

| HP Memory | | |
|-------------------|---|------------|
| | Registered DIMMs (RDIMMs) for E5-2600v3 Series NOTE: The following memory is supported by the E5-2600v3 series Processors. | |
| | 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 |
| | NOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MHz | |
| | Load Reduced DIMMs (LRDIMMs) for E5-2600v3 Series NOTE: The following memory is supported by the E5-2600v3 series Processors. | |
| | HP 32GB (1x32GB) Quad Rank x4 DDR4-2133 CAS-15-15-15 Load Reduced Memory Kit | 726722-B21 |
| | NOTE: Depending on Processor selected this memory will run at 1600, 1866 or 2133MHz | |
| HP Optical Drives | HP 9.5mm SATA DVD-ROM JackBlack Gen9 Optical Drive NOTE: The Universal Media Bay (724865-B21) is required for this option | 726536-B21 |
| | HP 9.5mm SATA DVD-RW JackBlack G9 Optical Drive NOTE: The Universal Media Bay (724865-B21) is required for this option | 726537-B21 |
| | HP Mobile USB Non Leaded System DVD RW Drive | 701498-B21 |
| HP Drives | SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives | |
| | HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive | 718162-B21 |
| | HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive | 652589-B21 |
| | HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive | 759212-B21 |
| | HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive | 765424-B21 |
| | HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive | 652583-B21 |





| HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive | 759210-B21 |
|--|------------|
| HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive | 652572-B21 |
| HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive | 759208-B21 |
| HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive | 652564-B21 |
| HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive | 652605-B21 |
| SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives | |
| HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive | 652749-B21 |
| HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive | 652745-B21 |
| SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives | |
| HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive | 737394-B21 |
| HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive | 737261-B21 |
| SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives | |
| HP 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive | 761477-B21 |
| HP 3TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive | 652766-B21 |
| HP 2TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive | 652757-B21 |
| HP 1TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive | 652753-B21 |
| SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives | |
| HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive | 655710-B21 |
| SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives | |
| HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive | 753874-B21 |
| HP 4TB 6G SATA 7.2k rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive | 693687-B21 |
| HP 4TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive | 695510-B21 |
| HP 3TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive | 628061-B21 |
| HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive | 658079-B21 |
| HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive | 657750-B21 |
| HP 500GB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive | 658071-B21 |
| 12G SAS Hot Plug SFF (2.5-inch) Enterprise Performance Solid State Drives | |
| HP 800GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty Solid State Drive | 741159-B21 |
| HP 400GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty Solid State Drive | 741155-B21 |
| HP 200GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty Solid State Drive | 741151-B21 |
| 12G SAS Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives | |
| HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive | 741146-B21 |
| HP 400GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive | 741142-B21 |
| HP 200GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive | 741138-B21 |
| 12G SAS Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives | |
| HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive | 762263-B21 |
| HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive | 762261-B21 |
| 12G SAS Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives | |
| HP 1.6TB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive | 762272-B21 |
| HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive | 762270-B21 |
| 6G SATA Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives | |
| HP 800GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive | 691868-B21 |
| HP 400GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive | 691866-B21 |
| | |





| HP 200GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive | 691864-B21 |
|---|------------|
| HP 100GB 6G SATA Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive | 691862-B21 |
| 6G SATA Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives | |
| HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive | 717973-B21 |
| HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive | 739898-B21 |
| HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive | 717971-B21 |
| HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive | 739888-B21 |
| HP 240GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive | 717969-B21 |
| 6G SATA Hot Plug SFF (2.5-inch) Enterprise Boot Solid State Drives | |
| HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive | 717965-B21 |
| HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty Solid State Drive | 734360-B21 |
| 6G SATA Hot Plug LFF (3.5-inch) Enterprise Mainstream Solid State Drives | |
| HP 800GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive | 691860-B21 |
| HP 400GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive | 691856-B21 |
| HP 200GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive | 691854-B21 |
| HP 100GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive | 691852-B21 |
| 6G SATA Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives | |
| HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive | 718189-B21 |
| HP 600GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive | 739900-B21 |
| HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive | 718183-B21 |
| HP 300GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive | 739890-B21 |
| HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive | 718177-B21 |
| 6G SATA Hot Plug LFF (3.5-inch) Enterprise Boot Solid State Drives | |
| HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive | 718171-B21 |
| HP 80GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid State Drive | 734362-B21 |
| Hard Drive Blank Kits | |
| HP Large Form Factor Hard Drive Blank Kit | 666986-B21 |
| HP Small Form Factor Hard Drive Blank Kit | 666987-B21 |
| Disk Enclosures | |
| HP D2600 w/12 4TB 6G SAS 7.2K LFF Dual Port MDL HDD 48TB Bundle | E7W32A |
| Hard Drive Kits | |
| HP DL380 Gen9 8SFF Bay1 Cage/Backplane Kit | 719067-B21 |
| HP DL380 Gen9 Additional 8SFF Bay2 Cage/Backplane Kit | 768857-B21 |
| HP DL380 Gen9 2SFF Front/Rear SAS/SATA Kit | 724864-B21 |
| HP DL380 Gen9 3LFF Rear SAS/SATA Kit | 768856-B21 |
| Media Bay Kits | |
| HP DL380 Gen9 Universal Media Bay Kit NOTE: The Universal Media Bay offers front VGA and 2xUSB 3.0, plus ability to add optional Optical drive, or 2SFF. NOTE: This is only compatible with the 8SFF or 8+8 SFF Models. | 724865-B21 |
| 1 Gigabit Ethernet adapters | |
| HP Ethernet 1Gb 4-port 331T Adapter | 647594-B21 |
| HP Ethernet 1Gb 2-port 361T Adapter | 652497-B21 |
| HP Ethernet 1Gb 2-port 332T Adapter | 615732-B21 |
| HP Ethernet 1Gb 4-port 331FLR Adapter | 629135-B22 |



HP Networking



10 Gigabit Ethernet adapters

| HP Ethernet 10Gb 2-port 530SFP Adapter | 652503-B21 |
|---|------------|
| HP Ethernet 10Gb 2-port 530T Adapter | 656596-B21 |
| HP Ethernet 10Gb 2-port 560SFP+ Adapter | 665249-B21 |
| HP Ethernet 10Gb 2-port 561T Adapter | 716591-B21 |
| HP Ethernet 10Gb 2-port 570SFP+ Adapter | 718904-B21 |
| HP FlexFabric 10Gb 2-port 556FLR-SFP+ Adapter | 727060-B21 |
| HP StoreFabric CN1200E 10Gb Converged Network Adapter | E7Y06A |

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

NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately. Please see the related NIC QuickSpecs for Technical Specifications and additional information: www.hp.com/qo/ProLiantNICs.

FlexibleLOM Adapters

| HP Ethernet 1Gb 4-port 366FLR Adapter | 665240-B21 |
|---|------------|
| HP FlexFabric 10Gb 2-port 533FLR-T Adapter | 700759-B21 |
| HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter | 665243-B21 |
| HP Ethernet 10Gb 2-port 561FLR-T Adapter | 700699-B21 |

NOTE: 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.

NOTE: Direct Attach Cable (DAC) for copper environments or fiber transceivers and cables for fiber-optic environments must be purchased separately. Please see the related NIC QuickSpecs for Technical Specifications and additional information: www.hp.com/qo/ProLiantNICs.

HP InfiniBand

HP InfiniBand FDR 2-port 545QSFP Adapter

702211-B21

719076-B21

HP I/O Expansion Options

HP DL380 Gen9 Primary 2 Slot GPU Ready Riser Kit **NOTE:** This is for slot 2 and supports double wide GPGPUs

NOTE: This is for Stot 2 and supports double wide GPGPC

Slot1: 1x Gen3 x16 FH/FL, 1xGen3 x8 FH/HL

HP DL380 Gen9 Secondary 3 Slot GPU Ready Riser Kit 719073-B21

NOTE: This is for slot 2 and supports double wide GPGPUs

Slot2: 2x Gen3 x16 FH/FL, 1xGen3 x8 FH/HL

NOTE: To support Graphics cards please also order the DL380 Gen9 Graphics Enablement kit, 719082-B21 that ships with 2 Performance Heatsinks and 6 cables. 1 kit needed for a 2P unit.

HP Power Supplies

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

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

HP Flex Slot Platinum Hot-plug Power supplies

| HP 500W Flex Slot Platinum Hot Plug Power Supply Kit | 720478-B21 |
|--|------------|
| HP 800W Flex Slot Platinum Hot Plug Power Supply Kit | 720479-B21 |
| HP 1400W Flex Slot Platinum Plus Hot Plug Power Supply Kit | 720620-B21 |

NOTE: The above power supply options are all 80Plus Platinum-certified with an efficiency rating of up to 94%. Support for HP Power Discovery Services is included with the 1400W Flex Slot option. Power specifications and technical content for all HP Server power supplies can be found at www.hp.com/go/proliant/powersupply.

NOTE: Maximum of 2 Flex Slot PS per platform

HP Computation and Graphics Accelerators

HP DL380 Gen9 Graphics Enablement Kit

719082-B21

Graphics Accelerators NOTE: This GPU enablement kit includes 2 Heatsinks and 6 cables to enable double wide GPUs to be supported.

NOTE: For doublewide GPU support you are required to have at least 1x1400W Power Supply (720620-B21), per card.

NOTE: There are limitations on the chassis and processor supported when adding Graphics accelerators





NOTE: Some cards will require the addition of the High Performance Ambient Temperature Fan Kit (719079-B21)

HP NVIDIA GRID K1 Quad GPU PCIe Graphics Accelerator

JOG94A

NOTE: This GPU enablement kit includes 2 Heatsinks and 6 cables to enable double wide GPUs to be supported.

NOTE: Is supported in all models with either increased or Max cooling settings **NOTE:** The Primary GPU riser (719076-B21) is required to support this in slot1

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).

NOTE: For doublewide GPU support you are required to have at least 1x1400W Power Supply (720620-B21), per card.

NVIDIA GRID K2 Reverse Air Flow Dual GPU PCIe Graphics Accelerator

753958-B21

NOTE: This GPU enablement kit includes 2 Heatsinks and 6 cables to enable double wide GPUs to be supported.

NOTE: For doublewide GPU support you are required to have at least 1x1400W Power Supply (720620-B21), per card.

NOTE: There are limitations on the models and processor supported when adding Graphics accelerators

NOTE: This card will require the addition of the High Performance Ambient Temperature Fan Kit (719079-B21)

NVIDIA Tesla K40C 12GB Computational Accelerator

753960-B21

NOTE: This GPU enablement kit includes 2 Heatsinks and 6 cables to enable double wide GPUs to be supported.

NOTE: This is supported in all models.

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).

NOTE: For doublewide GPU support you are required to have at least 1x1400W Power Supply (720620-B21), per card.

HP NVIDIA Quadro K2200 Graphics Accelerator

JOG89A

NOTE: This GPU enablement kit includes 2 Heatsinks and 6 cables to enable double wide GPUs to be supported.

NOTE: This is supported in all models.

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).

NOTE: For doublewide GPU support you are required to have at least 1x1400W Power Supply (720620-B21), per card.

HP NVIDIA Quadro K4200 Graphics Accelerator

JOG90A

NOTE: This GPU enablement kit includes 2 Heatsinks and 6 cables to enable double wide GPUs to be supported.

NOTE: This is supported in all models.

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).

NOTE: For doublewide GPU support you are required to have at least 1x1400W Power Supply (720620-B21), per card.

NVIDIA Quadro K6000 PCI-E Graphics Adapter

730874-B21

NOTE: This GPU enablement kit includes 2 Heatsinks and 6 cables to enable double wide GPUs to be supported.

NOTE: This is supported in all models.

NOTE: The Primary GPU riser (719076-B21) is required to support this in slot1

NOTE: The secondary GPU riser (719073-B21) is required to support this in slot2 (2nd processor required).

NOTE: For doublewide GPU support you are required to have at least 1x1400W Power Supply (720620-B21), per card.

HP 150W PCI-E Power Cable Kit

669777-B21

NOTE: Each DL380 Gen9 server will accommodate up to three single-width or two double width PCIe cards for Computational Graphics support





NOTE: The NVIDIA Tesla, GRID and Quadro modules are supported only on 64-bit versions of Linux and Windows operating systems as well as on Virtual Machine client operating systems. The supported bare metal operating systems are RHEL6, SLES 11 and Windows Server 2012 R2

NOTE: There are limitations on fan types, setting, and model support by card.

HP Cooling Options

HP DL380 Gen9 High Performance Temperature Fan Kit

719079-B21

NOTE: High Performance Temperature Fan kit consists of 6 fans, these will need to replace all the standard Fans in the unit, and fill all 6-Fan cages

NOTE: the 12LFF and 24SFF models (including field upgrades to 24SFF) will already include 6 High Performance Fan kits.

NOTE: The High Performance Temperature Fan Kit is needed to support certain GPGPU (Graphics cards) configurations; or ASHRAE operating environments.

NOTE: For elevated ambient temperature support please see: www.hp.com/servers/ASHRAE





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

HP Insight Software

HP Insight Control

HP Insight Control including 1yr 24x7 Technical Support and Updates Single Server License
HP Insight Control including 1yr 24x7 Technical Support and Updates Electronic License
HP Insight Control Server Provisioning Media Kit

HP Insight Management Media Kit

C6N31A

NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key.

NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service.

NOTE: Licenses ship without media. The HP Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates.

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

http://h18000.www1.hp.com/products/quickspecs/12631_na/12631_na.html.

Embedded Management

HP iLO Advanced

| HP iLO Advanced Electronic License with 3yr 24x7 Tech Support and Updates | BD506AAE |
|--|------------|
| HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License | 512485-B21 |
| HP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and Updates | BD505A |
| HP iLO Advanced including 1yr 24x7 Technical Support and Updates E-LTU | E6U59ABE |
| HP iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU | E6U64ABE |
| HP iLO Advanced including 1yr 24x7 Technical Support and Updates Electronic License | TA850AAE |

High Performance Clusters

HP Cluster Management Utility

HP Insight Cluster Management Utility 1yr 24x7 Flexible License

HP Insight Cluster Management Utility 3yr 24x7 Flexible License

BD476A

NOTE: These part numbers can be used to purchase one certificate for multiple licenses and support with a single activation key. Each license is for one node (server). Customer will receive a printed end user license agreement and license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online in order to obtain a license key. Customer also will receive a support agreement.

HP Insight Cluster Management Utility Media BD477A

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

http://h18004.www1.hp.com/products/quickspecs/12612_na/12612_na.html.

HP Security

HP 2U Security Bezel Kit

666988-B21

HP Trusted Platform Module Option

488069-B21

NOTE: The TPM (Trusted Platform Module) is a microcontroller chip that can securely store artifacts used to authenticate the server platform. These artifacts can include passwords, certificates and encryption keys. Windows® BitLocker™ Drive Encryption (BitLocker) is a data protection feature available in Windows Server® 2008. BitLocker leverages the enhanced security capabilities of a Trusted Platform Module (TPM) version 1.2. The TPM works with BitLocker to help protect user data and to ensure that a server running Windows Server 2008 has not been tampered with while the system was offline. For more information about TPM, including a white paper, go to: www.hp.com/go/TPM.

NOTE: ProLiant OS pre-installed units will come with the partition required for TPM deployment.

NOTE: The TPM key is unique to every TPM deployed server and must be retained. Misplacing or losing the key could result in data loss.

HP Storage Controllers

SAS Controllers

HP Flexible Smart Array Controllers

HP Smart Array P440ar/2GB FBWC 12Gb 2-ports Int SAS Controller

NOTE: Includes the HP Smart Storage Battery

726736-B21





| HP H240ar 12Gb 1-port Int Smart Host Bus Adapter | 726757-B21 |
|--|------------|
| HP Smart Array Controllers | |
| HP Smart Array P440/4GB FBWC 12Gb 1-port Int SAS Controller | 726821-B21 |
| HP Smart Array P840/4GB FBWC 12Gb 2-ports Int SAS Controller | 726897-B21 |
| HP Smart Array P441/4GB FBWC 12Gb 2-ports Ext SAS Controller | 726825-B21 |
| HP Cable Options | |
| HP DL380 Gen9 P840/440 SAS Cable Kit | 783007-B21 |
| HP DL380 Gen9 2SFF Front SAS x4 Cable Kit | 783008-B21 |
| HP DL380 Gen9 8SFF SAS Cable Kit | 783009-B21 |
| HP DL380 Gen9 2SFF x8 Front Cable Kit | 785989-B21 |
| HP DL380 Gen9 12LFF SAS Cable Kit | 785991-B21 |
| HP DL380 Gen9 8SFF H240 Cable Kit | 786092-B21 |
| HP DL380 Gen9 12LFF H240 SAS Cable Kit | 786215-B21 |
| For details on cabling options, additional information available here: Cabling Matrix | |
| Optional Upgrades | |
| HP 96W Smart Storage Battery with 145mm Cable for DL/ML/SL Servers NOTE: Provide backup power for multiple HP Smart Array controllers or other devices (up to 16) | 727258-B21 |
| HP 12Gb SAS Expander Card with Cables for DL380 Gen9 | 727250-B21 |

HP Tape Backup

NOTE: For the complete range of tape drives, autoloaders, libraries and media see: http://www.hp.com/go/tape. For hardware and software compatibility of HP tape backup products see: http://www.hp.com/storage/SPOCK and http://www.hp.com/go/ebs.

Tape Drives

| HP StoreEver LTO-6 Ultrium 6650 SAS External Tape Drive | EH964A |
|---|--------|
| HP StoreEver 1/8 G2 LTO-6 Ultrium 6250 FC Tape Autoloader | COH19A |
| HP StoreEver LTO-6 Ultrium 6250 Tape Drive in 1U Rack-mount Kit | COL99A |
| HP StoreEver LTO-4 Ultrium 1760 SAS External Tape Drive | EH920B |
| HP StoreEver LTO-4 Ultrium 1760 SAS (1) in 1U Rack-mount Kit | EH946C |
| HP StoreEver LTO-5 Ultrium 3000 SAS External Tape Drive | EH958B |
| HP StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in 1U Rack-mount | EJ014B |
| HP StoreEver LTO-5 Ultrium 3280 SAS External Tape Drive | EH900B |
| HP StoreEver LTO-5 Ultrium 3280 SAS Tape Drive in 3U Rack-mount | EJ013B |
| HP StoreEver LTO-6 Ultrium 6250 External Tape Drive | EH970A |
| HP StoreEver 1U SAS Rack-mount Kit | AE459B |
| HP StoreEver LTO-4 Ultrium 1760 SCSI External Tape Drive | EH922B |

HP Tape Storage Systems

HP StoreEver MSL6480

HP StoreEver MSL6480 Scaleable Expansion Module

NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/14604_div/14604_div.html

(Worldwide).

HP StoreEver MSL6480 Scalable Base Module

HP MSL2024 0-Drive Tape Library

HP MSL4048 0-Drive Tape Library

AK379A

HP MSL Library Extender Kit

AQ746A

HP Storage Options

NOTE: For the complete listing of Fibre Channel Host Bus Adapters for Windows 2000, Windows Server 2003 and Linux, please see: http://h18006.www1.hp.com/storage/saninfrastructure/hba.html.

Emulex Fibre Channel HBAs

HP 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter

AJ762B





| HP StoreFabric SN1 100E 166b Single Port Fibre Channel Host Bus Adapter (BR39A) QLogic Fibre Channel HBAS HP 810 86b 1-port PCIer Fibre Channel Host Bus Adapter (ALS44A) HP 82Q 86b 2-port PCIer Fibre Channel Host Bus Adapter HP 82Q 86b 2-port PCIer Fibre Channel Host Bus Adapter HP 81 StoreFabric SN1000Q 166B 2-port PCIer Fibre Channel Host Bus Adapter HP StoreFabric SN1000Q 166B 2-port PCIer Fibre Channel Host Bus Adapter HP StoreFabric SN1000Q 166B 2-port PCIer Fibre Channel Host Bus Adapter US971A HP StoreFabric SN100Q 166B 2-port PCIer Fibre Channel Host Bus Adapter HP StoreFabric SN100Q 166B 2-port PCIer Fibre Channel Host Bus Adapter US972A Converged Network Adapter HP StoreFabric SN100Q 166B 2-port PCIer Fibre Channel Host Bus Adapter US972A Converged Network Adapter HP D6000 W/35 4TB 66 SA5 7.2K LFF Dual Port MDL HDD 140TB Bundle HP D6000 W/35 4TB 66 SA5 7.2K LFF Dual Port MDL HDD 140TB Bundle HP D6000 W/35 2TB 66 SA5 7.2K LFF Dual Port MDL HDD 180TB Bundle HP D6000 W/35 2TB 66 SA5 7.2K LFF Dual Port MDL HDD 180TB Bundle HP D6000 W/35 2TB 66 SA5 7.2K LFF Dual port MDL HDD 180TB Bundle Q699A HP D6000 W/35 2TB 66 SA5 7.2K LFF Dual port MDL HDD 180TB Bundle Q699A HP D6000 W/35 2TB 66 SA5 7.2K LFF Dual port MDL HDD 180TB Bundle Q7000A HP D6000 W/35 2TB 66 SA5 7.2K LFF Dual port MDL HDD 180TB Bundle Q7000A HP D6000 W/30 STB 66 SA5 7.2K LFF Dual port MDL HDD 180TB Bundle Q7000A HP D6000 W/30 STB 66 SA5 7.2K LFF Dual port MDL HDD 180TB Bundle Q7000A HP D6000 W/30 STB 66 SA5 7.2K LFF Dual port MDL HDD 180TB Bundle Q7000A HP D6000 W/30 STB 66 SA5 7.2K LFF Dual port MDL HDD 180TB Bundle Q7000A HP D6000 W/30 STB 66 SA5 7.2K LFF Dual port MDL HDD 180TB Bundle Q8000A HP 1804 1075mm Pallet Universal Rack HP 11642 1075mm Bhock Universal Rack HP 11642 1075mm Pallet Universal Rack HP 11642 1075mm Pallet Universal Rack HP 1804 1075mm Pallet Universal Rack HP 1804 1075mm Pallet Universal Rack HP 1804 1075mm Pa | | HP 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter | AJ763B | | | |
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| HP 842 1075mm Pallet Intelligent Series Rack BW917A | | | | | | |
| | | | | | | |
| | | HP 842 1075mm Pallet Intelligent Series Rack HP 842 1075mm Shock Intelligent Series Rack | BW917A BW918A | | | |

NOTE: Please see the HP Intelligent Series Racks QuickSpec for information on additional racks options and rack specifications.

HP Value Series Rack

HP V142 1075mm deep Pallet 100 series Rack

AF046A

NOTE: Please see the HP Value Series Rack QuickSpec for information on additional racks options and rack specifications.





HP Power Distribution Units (PDUs)

HP Basic Power Distribution Unit (bPDU)

| HP 4.9kVA 24A High Voltage NA/JP Core Modular Power Distribution Unit | 252663-D74 |
|---|------------|
| HP 8.3kVA 40A High Voltage NA/JP Core Modular Power Distribution Unit | 252663-D75 |
| HP 17.3kVA 48A Three Phase NA/JP Modular Power Distribution Unit | AF511A |
| HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Basic PDU | H5M56A |
| HP 4.9kVA 208 Volt L6-30 Input (20xC13) NA/JP Basic PDU | H5M58A |
| | |

NOTE: To learn more about HP Basic Power Distribution Units (bPDU), please visit the HP website at www.hp.com/go/pdu.

HP Monitored Power Distribution Units (mPDU)

| HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU | D9N43A |
|--|------------|
| HP 3.6kVA 200-240 Volt Detachable C20 Input (16xC13) WW Monitored PDU | D9N45A |
| HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Monitored PDU | D9N47A |
| HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (12xC13/12xC19) NA/JP Monitored PDU | D9N59A |
| NOTE: Please see the HP Monitored Power Distribution Units QuickSpec for information on additional o | ptions and |
| product specifications. | |

HP Intelligent Power Distribution Units (iPDU)

| HP 4.9kVA 24A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit | AF520A |
|--|--------|
| HP 8.3kVA 40A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit | AF521A |
| HP 8.6kVA 24A Three Phase NA/JP Core Intelligent Modular Power Distribution Unit | AF522A |
| HP 17.3kVA 48A Three Phase NA/JP Core Intelligent Modular Power Distribution Unit | AF523A |
| HP 17.3kVA 48A 208V Three Phase 12 Outlet Core NA/JP Intelligent Power Distribution Unit | AF535A |
| HP 4.9kVA 24A Single Phase NA/JP Intelligent Modular Power Distribution Kit | AF531A |
| HP 8.6kVA 24A Three Phase NA/JP Intelligent Modular Power Distribution Kit | AF532A |
| NAME OF TAXABLE PARTY OF TAXABLE PARTY OF TAXABLE PARTY. | 4.5 |

NOTE: Please see the HP Intelligent Power Distribution Units QuickSpec for information on additional options and product specifications.

HP Rack Mount Consoles, KVM Switches, and Keyboards

HP Rack Mount Consoles

HP TFT7600 G2 KVM Console Rackmount Keyboard US Monitor

AZ870A

NOTE: Please see the HP Rack Console QuickSpec for information on additional options and product specifications.

Rail Kits

NOTE: Gen9 rail kits have changed significantly from prior generation rail kits. Please take a moment to review the installation documentation that comes with the server to help you with the installation of your Gen9 server.

NOTE: Rail kits are optional for DL380 Gen9 and are no longer included standard with the server. Customers have the option to purchase their server without a rail kit.

NOTE: Ball bearing and Easy Install rail kits contain telescoping rails which allow for in-rack serviceability.

NOTE: 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).

Caution: HP 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.

| HP 2U Small Form Factor Easy Install Rail Kit NOTE: Does not include CMA (733664-B21) | 733660-B21 |
|--|------------|
| HP 2U Large Form Factor Easy Install Rail Kit NOTE: Does not include CMA (733664-B21) | 733662-B21 |
| HP 2U Cable Management Arm for Easy Install Rail Kit | 733664-B21 |
| HP 2U Small Form Factor Ball Bearing Rail Kit NOTE: Does not include CMA (720865-B21) | 720863-B21 |
| HP 2U Large Form Factor Ball Bearing Rail Kit NOTE: Does not include CMA (720865-B21) | 720864-B21 |
| HP 2U Cable Management Arm for Ball Bearing Rail Kit | 720865-B21 |
| HP KVM Switches | |
| 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 Server Console 0x2x8 Port Analog Switch

HP Server Console 0x2x16 Port Analog Switch

AF617A

HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software

HP 1x4 USB/PS2 KVM Console Switch

NOTE: To learn more, please visit the HP KVM Switches web page.

AF611A

HP USB Keyboard and Mouse

HP USB BFR with PVC Free US Keyboard/Mouse Kit 631341-B21

NOTE: Please see the HP USB Keyboard and Mouse QuickSpec for information on additional options and product specifications.

HP 1U Rackmount Keyboard with USB

HP 1U US Rackmount Keyboard with USB AG072A

NOTE: Please see the HP 1U Rackmount Keyboard QuickSpec for information on additional options and product specifications.

HP Uninterruptible Power Systems (UPS)

HP Rack-mountable UPS

HP R/T3000 G2 2U L530 Low Voltage NA/JP Uninterruptible Power System AF466A

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



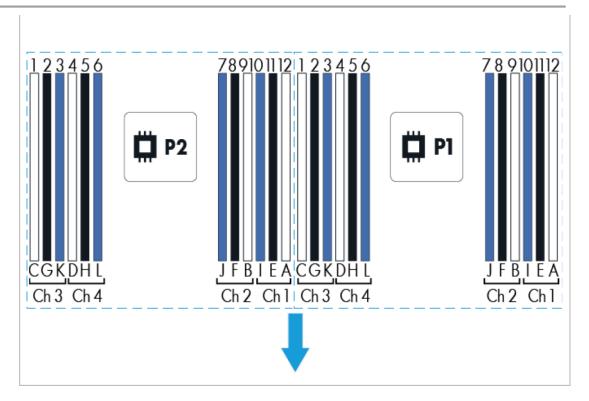


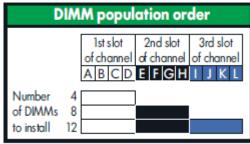
Memory

Memory Subsystem Architecture

Each Intel® Xeon® E5-2600v3 family processor socket contains four memory channels per installed processor with three DIMMs per channel for a total of twelve (12) DIMMs or a grand total of twenty-four (24) DIMMs for the server.

Memory Population quidelines





General Memory Population Rules and Guidelines:

- . White DIMM slots denote the first slot of a channel. For 1 DPC (DIMM per channel) populate white slots only.
- . A minimum of one DIMM is required per server.
- . Install DIMMs only if the corresponding processor is installed.
- . If only one processor is installed in a two processor system, only half of the DIMM slots are available.
- To maximize performance, it is recommended to balance the total memory capacity between all installed processors and to load the channels similarly whenever possible.
- . When two processors are installed, balance the DIMMs across the two processors.
- Populate DIMMs from heaviest load (quad-rank) to lightest load (single-rank) within a channel. Heaviest load
- (DIMM with most ranks) within a channel goes furthest from the processor.
- RDIMMs operating at either 1.35V or 1.5V may be mixed in any order, but the system will power them at the higher voltage.
- . Do not mix RDIMMs or LRDIMMs.
- . LRDIMMs are supported up to 3 DIMMs per channel.
- . Using the HP RBSU, 1.35V DIMMs can be changed to operate at 1.5V.
- . DIMMs of different speeds may be mixed in any order; the server will select a common optimal speed.





Memory

- The maximum memory speed is a function of the memory type, memory configuration, and processor model.
- . The maximum memory capacity is a function of the memory type and number of installed processors.
- HP memory from previous generation servers is not compatible with the DL380 Gen9 Server. Certain HP
- SmartMemory features such as memory authentication and enhanced performance may not be supported. To realize the performance memory capabilities listed in this document, HP SmartMemory is required. For
- additional information, please see the HP SmartMemory QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/14225_div/14225_div.html (Worldwide).
- For memory population rules and additional memory guidelines, please see the DL380 Gen9 user guide at http://www.hp.com/support.
- . There are four (4) Memory channels per processor; eight (8) channels per 2 processor server.
- . There are three (3) DIMM slots for each memory channel; twenty four (24) total slots for 2 processor server.
- . Memory channels1 and 3 consists of the three (3) DIMMs that are furthest from the processor.
- . Memory channel 2 and 4 consists of the three (3) DIMMs that are closest to the processor.

Intel Gen9 Supported Memory Bandwidth for HP ProLiant Gen8 Intel® Xeon®E5-2600v3 Series Processor Family

Memory Bandwidth and Capacity

| [DIMM Type] | Registered DIMMs (RDIMMs) | | Load Reduced (LRDIMMs) | |
|--------------------------------|---------------------------|-----------|------------------------|--|
| DIMM Rank | Single Rank | Dual Rank | Quad Rank | |
| DIMM Capacity | 8GB | 16GB | 32GB | |
| DIMM Native Speed (MT/s) | | | | |
| Voltage | | Std Volta | ge 1.2V | |
| SLOTS THAT CAN BE POPULATED | | | | |
| 24 slot servers | | 24 | | |
| MAXIMUM CAPACITY (GB) | | | | |
| | 192 | 384 | 768 | |
| 1 DIMM Per Channel | | 213 | 3 | |
| 2 DIMM Per Channel | | 213 | 3 | |
| 3 DIMM Per Channel | 1600 | 1600 | 1600 | |

DIMM slot and configuration diagram

DIMM slot and configuration diagrams

Basic memory slot & population diagram

- Population order; start with "A" first, "B" second, "C" third, etc.
- When one processor is installed, install DIMMs in sequential alphabetic order: A, B, C, D, E, F ...
- When two processors are installed, install DIMMs in sequential
- alphabetic order: CPU1-A, CPU2-A, CPU1-B, CPU2-B, CPU1-C, CP2-C

| | | CPU 1 | | CPU 2 | |
|---|-------|------------------|-------|------------------|---|
| S | Slot# | population order | Slot# | population order | _ |
| 1 | | | 1 | | |





Memory

Memory Speed by Processor Model

| Processor Models | Supported Memory Speeds |
|---|-------------------------|
| E5-2603v3, E5-2609v3, | 1600MHz |
| E5-2620v3, E5-2623v3, E5-2630v3, E5-2630Lv3, E5- 2640v3, | 1866MHz |
| E5-2637v3, E5-2643v3, E5-2650v3, E5-2650Lv3, E5- 2660v3, E5-2667v3, E5-2670v3, E5-2680v3, E5-2683v3, E5-2690v3, E5-2695v3, E5-2697v3, E5-2698v3, E5- 2699v3, E5-2687Wv3, | 2133MHz |

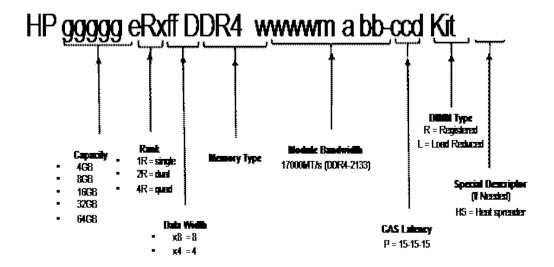
Standard and Maximum Memory Capacity (Preconfigured Models)

| Pre-Configured Models | Standard Memory | Maximum Memory Plus Optional Memory | Standard Memory Replaced with Optional Memory |
|-----------------------|-----------------|--|---|
| E5-2609v3, | 8GB (1x8GB) | 376GB (23x16GB, 1x8GB) | 768GB (24x32GB) |
| E5-2620v3, | 16GB (1x16GB) | 384GB (23x16GB, 1x16GB) | 768GB (24x32GB) |
| E5-2650v3, | 32GB (2x16GB) | 384GB (22x16GB, 2x16GB) | 768GB (24x32GB) |

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





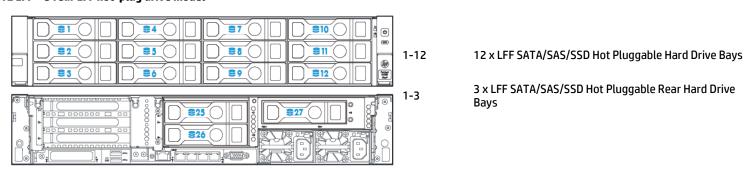


Storage

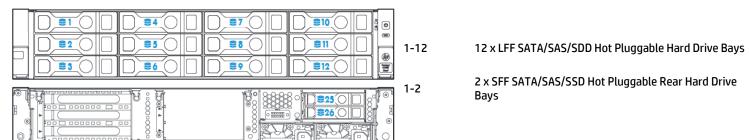
4LFF hot-plug drive model



12 LFF + 3 rear LFF hot-plug drive model



12 LFF + 2 rear SFF hot-plug drive model



8 SFF (+2 SFF) hot-plug drive model with Universal Media Bay



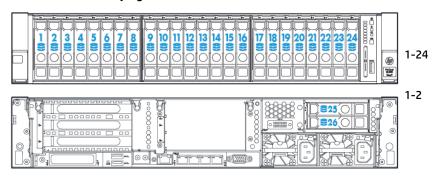
16 SFF (+2 SFF) hot-plug drive model with Universal Media Bay





Storage

24 SFF + rear 2 SFF hot-plug drive model



24 x SFF SATA/SAS/SDD Hot Pluggable Hard drive bays

2 x SFF SATA/SAS/SSD Hot Pluggable Rear Hard Drive Bays





| System Unit Dimensions | SFF Drives: 3.44 x 17.54 x 26.75 in (8.73 x 44.55 x 67.94 cm) |
|------------------------|---|
| System our Dimensions | SFF Drives: 3.44 x 17.54 x 26.75 in (8.73 x 44.55 x 67.94 cm) |

LFF Drives: 3.44 x 17.54 x 28.75 in (8.73 x 44.55 x 73.02 cm)

NOTE: Dimensions without Bezel

Weight 32.6 lb (14.759 kg)

(approximate) (Minimum - 8SFF model with 1xSFF HDD and 7 HDD blanks, 1x processor, 1x power supply (plus blank), 1x Flexible Smart Array, 1x Riser installed)

Maximum: 51.5 lb (23.6 kg)

(Maximum - 12 LFF hard drives (No rear drives), 2x processors, 2x power

supplies, 1x Flexible Smart Array, 2x Risers installed)

Input

Requirements

(per power supply)

Range Line Voltage 100 to 120 VAC

200 to 240 VAC

BTU Rating Maximum

For 800W Power Supply: 3207 BTU/hr (at 100 VAC), 3071 BTU/hr (at

200 VAC), 3112 BTU/hr (at 240 VAC) for China Only

For 500W Power Supply: 1979 BTU/hr (at 100 VAC), 1911 BTU/hr (at

200 VAC), 1965 BTU/hr (at 240 VAC) for China Only

Power Supply

(per power supply)

Output

Rated Steady-State

Power

For 1400W Power Supply: 1400W (at 100 VAC), 1400W (at 240 VAC),

1400W (at 240 VAC)

For 800W Power Supply: 800W (at 100 VAC), 800W (at 240 VAC), 800W (at 240 VAC) input for China only

For 500W Power Supply: 500W (at 100 VAC), 500W (at 240 VAC),

500W (at 240 VAC) input for China only

Maximum Peak

Power

For 1400W Power Supply: 1400W (at 100 to 127 VAC), 1400W (at 200

to 240 1VAC), 1400W (at 240 VAC) input for China only

For 800W Power Supply: 800W (at 100 to 127 VAC), 800W (at 200 to

240 1VAC), 800W (at 240 VAC) input for China only

For 500W Power Supply: 500W (at 100 to 127 VAC), 500W (at 200 to

240 VAC), 500W (at 240 VAC) input for China only

System Inlet Temperature **Standard Operating**

Support

10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a

maximum of 3050 m (10,000 ft), no direct sustained

sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. For approved hardware configurations, the supported system inlet range is extended to be: 5° to 40°C (41° 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:www.hp.com/go/proliant/Ashrae For approved hardware configurations, the supported system inlet range is extended to be: 5° to 45°C (41° 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

www.hp.com/go/proliant/Ashrae

Extended Ambient Operating Support

-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr Non-operating

(36°F/hr).

Relative Humidity Operating Minimum to be the higher (more moisture) of -12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of

24°C (75.2°F) dew point or 90% relative humidity.

configurations for this system are listed at the URL:

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

temperature, non-condensing.

Altitude Operating

3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457

m/min (1500 ft/min).

9144 m (30,000 ft). Maximum allowable altitude change rate is 457 Non-operating

m/min (1500 ft/min).





Acoustic Noise

Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109).

Idle

L WAd 4.0 B Entry LFF

4.1 B Entry4.2 B Base5.7 B Base LFF4.3 B Perf

L pAm 23 dBA Entry LFF

24 dBA Entry 24 dBA Base 39 dBA Base LFF 25 dBA Perf

Operating

L WAd 4.3 B Entry LFF

4.6 B Entry 4.8 B Base 5.9 B Base LFF 5.6 B Perf

L pAm 25 dBA Entry LFF

29 dBA Entry 30 dBA Base 31 dBA Base LFF 39 dBA Perf

NOTE: The Listed sound levels apply to standard shipping configurations (Entry LFF, Entry, Base, Base LFF and Performance models) Additional options may result in increased sound levels. The Base LFF model leverages our High Efficiency Fans, other models are shipping with standard fan options

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.

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

HP Dynamic Smart

Array B140i Controller

Number of PCI links Four

PCI link rate 4 Gb/s
Storage protocol support SAS/SATA peak 6 Gb/s

data tranfer rate

Number of SAS/SATA links

SAS/SATA connectivity 2x4 connectors; 2x1 connectors

Expander support No

Drives supported (max) Up to 10 Internal Drives

RAID support 0, 1, 10, 5 SATA





Software management

HP SSA, SMH, SIM

Warrantv **HP Secure Encryption license** Server warranty Not Supported

HP SmartCache

License

Not Supported

HP Smart Storage Administrator

Supported

HP Ethernet 1Gb 4- Network Interface 10Base-T/100Base-TX/1000Base-TX

port 331i Adapter

IEEE 802.3 10Base-T

Compatibility

IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX

Ports

Rate

Data Transfer Method

PCI Express, two lanes (x2)

Controller BCM5719

10Base-T (Half-Duplex)

10 Mb/s per port, 40 Mb/s combined

10Base-T (Full-Duplex) 20 Mb/s per port, 80 Mb/s combined 100Base-TX (Half-Duplex) 100 Mb/s per port, 400 Mb/s combined

100Base-TX (Full-Duplex) 1000Base-TX (Half and Full-Duplex) 1000Mb/s per port, 4000 Mb/s combined 1000Base-TX (Full-Duplex)

200 Mb/s per port, 800 Mb/s combined 2000Mb/s per port, 8000 Mb/s combined

Connector Four RJ-45

Cable Support

Network Transfer

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

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

Environment-friendly End-of-life **Products and Approach Management and** Recycling

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

http://www.hp.com/go/green. To recycle your product, please go to: http://www.hp.com/go/green or contact your nearest HP sales office. Products returned to

HP will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard web site at:

http://www.hp.com/go/green. These instructions may be used by recyclers and other WEEE treatment facilities as well as HP OEM customers who integrate and re-sell HP equipment.



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

