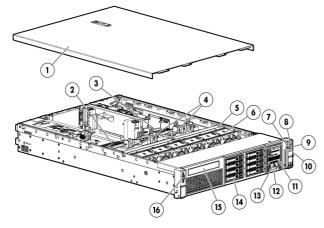
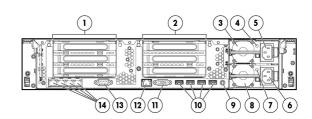
Overview

The HP ProLiant DL380p Gen8 sets the next generation standards of 2U 2-socket rack servers for the industry. With enhanced configuration flexibility, unmatched performance, and leading energy efficient design the DL380p Gen8 offers the perfect solution for the dynamic compute requirements of today's demanding datacenters.





Front View:

- 1. Quick removal access panel
- 2. Second Intel Processor
- 3. First Intel Processor
- 4. 24 DIMM slots: DDR3 Registered (RDIMM), Load Reduced (LRDIMM), or Unbuffered (UDIMM) memory
- 5. Air Baffle
- 6. Hot-plug fans, full N+1 redundancy
- 7. Health LED
- 8. Power On /Standby button and system power LED button
- 9. USB connector
- 10. Unit ID LED
- 11. Systems Insight Display
- 12. Asset Tag
- 13. USB connector
- 14. Drive Bays
- 15. Optional Slim Optical Bay (SATA DVD-RW /ROM Optical Drive)
- 16. Video connector

Rear View:

- 1. PCIe 3.0 Slots 1, 2, 3-PCIe 2.0 top to bottom
- 2. PCIe 3.0 Slots 4-6 top to bottom
- 3. Power supply 1
- 4. Power supply 1 Power LED
- Power supply 1 Power connection (with Intelligent PDU communication)
- 6. Power supply 2 Power connection (with Intelligent PDU communication)
- 7. Power supply 2 Power LED
- 8. Power supply 2
- 9. Unit ID LED/Button
- 10. USB connectors (4)
- 11. Video connector
- 12. iLO connector
- 13. Serial connector
- 14. FlexibleLOM ports (Shown: 4 ports 1Gb each /Optional: 2 ports 10Gb each)

What's New

• E5-2690, E5-2680, and E5-2667 processors now available on the DL380p Gen8 25 SFF Configure-to-order Server





Standard Features

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

Processor

One of the following depending on Model

Entry Processors

NOTE: All support up to 1066MHz memory speeds.

Intel® Xeon® E5-2609 (2.4GHz/4-core/10MB/6.4GT-s QPI/80W) Intel® Xeon® E5-2603 (1.8GHz/4-core/10MB/6.4GT-s QPI/80W)

Base Processors

NOTE: All support up to 1333MHz DDR3 memory speeds.

Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/7.2GT-s QPI/95W, DDR3-1333, HT, Turbo2- 3/3/4/4/5/5) Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/7.2GT-s QPI/95W, DDR3-1333, HT, Turbo2- 3/3/4/4/5/5) Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/7.2GT-s QPI/95W, DDR3-1333, HT, Turbo2- 3/3/4/4/5/5) Intel® Xeon® E5-2630L (2.0GHz/6-core/15MB/8.0GT-s QPI/60W, DDR3-1333, HT, Turbo2- 3/3/4/4/5/5)

Performance Processors

NOTE: All support up to 1600MHz DDR3 memory speeds.

Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/8GT-s QPI/135W, DDR3-1600, HT, Turbo2- 4/4/4/5/5/7/7/9) Intel® Xeon® E5-2680 (2.7GHz/8-core/20MB/8GT-s QPI/130W, DDR3-1600, HT, Turbo2- 4/4/5/5/5/7/8/8) Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/8GT-s QPI/115W, DDR3-1600, HT, Turbo2- 4/4/5/5/6/6/7/7) Intel® Xeon® E5-2667 (2.9GHz/6-core/15MB/8GT-s QPI/130W, DDR3-1600, HT, Turbo2- 3/3/3/4/5/6) Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/8GT-s QPI/115W, DDR3-1600, HT, Turbo2- 4/4/5/5/6/6/7/7) Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/8GT-s QPI/95W, DDR3-1600, HT, Turbo2- 5/5/6/6/7/7/8/8) Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/8GT-s QPI/95W, DDR3-1600, HT, Turbo2- 4/4/5/5/5/7/8/8) Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/8.0 GT-s QPI/70W, DDR3-1600, HT, Turbo2- 2/2/3/3/4/4/5/5)

Intel® Xeon® E5-2643 (3.3GHz/4-core/10MB/8GT-s QPI/130W, DDR3-1600, HT, Turbo2- 1/1/2/2) Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/8.0GT-s QPI/80W, DDR3-1600, HT, Turbo2- 5/5)

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

NOTE: Turbo indicates the maximum potential frequency increment when using Intel® Turbo Boost Technology, with 8, 7, 6, 5, 4, 3, 2 and 1 cores active.

NOTE: DDR3 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

NOTE: Up to 2 processors supported. Mixing different processor models is not supported.

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



Standard Features

Cache Memory

One of the following depending on Model

20MB (1x20MB) Level 3

NOTE: For Eight-core processors.

15MB (1x15MB) Level 3

NOTE: For Six-core processors.

10MB (1x10MB) Level 3

NOTE: For Quad-core processors.

5MB (1x5MB) Level 3

NOTE: For Dual-core processors.

NOTE: All processor models above list the L3 Cache associated with that particular processor.

Chipset

Intel® C600 Series Chipset

Intel® E5-2600 Processor Family

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

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

Upgradeability

Upgradeable to 2 processors (16 Cores)

Up to 24 DIMM slots available for higher Memory capacity

FlexibleLOM connector for 1 Gigabit or 10 Gigabit networking options

8SFF Hard drive bays (total of 16 with optional upgrade) Optional 3 slot riser (x16, x8, x8), or 2 slot (x16, x16)

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

Redundant Power Supply
Optical Drive (8SFF/8LFF only)

On System Management

Chipset

HP iLO (Firmware: HP iLO 4)

NOTE: For more information, visit: http://www.hp.com/go/ilo

Memory Protection

Advanced ECC

NOTE: Advanced ECC uses single device data correction (SDDC) to detect and correct single and all multibit error that occurs within a single DRAM chip. Both x4 and x8 SDDC are supported (x8 requires lockstep mode).

Online Spare

NOTE: Memory online spare mode (also known as rank spare mode) detects a rank that is degrading and switches operation to the spare rank.

Lock-step mode

NOTE: Memory Lockstep mode is used to correct a single x8 DRAM device failure on a DIMM. The DIMMs in

each paired memory channel must have identical HP part numbers.



Standard Features

Memory

One of the following depending on Model

Type **HP SmartMemory**

DDR3 Load Reduced (LRDIMM), Registered (RDIMM) or Unbuffered (UDIMM)

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

channel)

Standard (Entry Model) 4GB (1x4GB) PC3L-10600R (DDR3-1333) Registered DIMMS 16GB (4x4GB) PC3L-10600R (DDR3-1333) Registered DIMMS Standard (Base Models) Standard (High 32GB (4x8GB) PC3-12800R (DDR3-1600) Registered DIMMS

Performance Models)

Maximum Capacity

(LRDIMM)

Maximum Capacity

(RDIMM)

384GB (24x 16GB RDIMM @1333MHz)

Maximum Capacity

(UDIMM)

128GB (16 x 8GB UDIMM @1600MHz)

768GB (24 x 32GB LRDIMM @1066MHz)

Maximum Capacity

(HDIMM)

384GB (24 x 16GB UDIMM @1333MHz)

NOTE: HP memory from previous generation servers are 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 Gen8. For additional information, please see the HP SmartMemory QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/14225 div/14225 div.html

NOTE: LRDIMM, RDIMM and UDIMMs are all distinct memory technologies and cannot be mixed within a server. The majority of ProLiant Gen8 servers support RDIMM, UDIMM and LRDIMM.

NOTE: If only one processor is installed, only half the DIMM slots are available

NOTE: UDIMM max DIMM population is 16

NOTE: Depending on the memory configuration and processor model, the memory speed may run at 1600MHz, 1333MHz, or 1066MHz. Please see Memory Population Table or the Online Memory

Configuration Tool at: www.hp.com/go/ddr3memory-configurator.

Network Controller

One of the following depending on Model

HP ProLiant Gen8 servers offer a new networking technology - Flexible Network Technology. The HP ProLiant DL380p Gen8 server offers the customer the choice of 1 Gigabit and/or 10 Gigabit networking solutions. For additional details see the Networking Section of this document.

Entry Models HP Ethernet 1Gb 4-port 331FLR Adapter **Base Models** HP Ethernet 1Gb 4-port 331FLR Adapter High Performance Models HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter

HP Ethernet 1Gb 4-port 331FLR Adapter

Energy Star - Base Models HP Ethernet 1Gb 4-port 331FLR Adapter



Standard Features

Expansion Slots

Primary Riser (Standard)	Expansion Slots#	Technology	Bus Width**	Connector Width	Bus Number*	Form Factor	Notes
	1	PCIe 3.0	X16	X16	7	Full Length, Full Height Slot	Proc 1
	2	PCIe 3.0	X8	Х8	10	Half Length, Full Height Slot	Proc 1
	3	PCIe 2.0	X4	Х8	13	Half Length, Full Height Slot	Chipset

^{*} Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number

 $\textbf{NOTE:} \ When populating the second optional riser slot, the second processor must be installed.$

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

PCIe Riser (Optional 3-slot)	Expansion Slots #	Technology	Bus Width**	Connector Width	Bus Number*	Form Factor	Notes
	4	PCIe 3.0	X16	X16	16	Full length, full height slot	Proc 2
	5	PCIe 3.0	X8	X8	20	Half length, full height slot	Proc 2
	6	PCIe 3.0	X8	X8	23	Half length, full height slot	Proc 2

^{*} Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number

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

PCle Riser (Optional 2-slot)	Expansion Slots #	Technology	Bus Width**	Connector Width	Bus Number*	Form Factor	Notes
	4	PCIe 3.0	X16	X16	16	Full length, Full height slot	Proc 2
	5	PCle 3.0	X16	X16	16	Half Length, Full Height	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.

^{**} Indicates the number of physical electrical lanes running to the connector.

^{**} Indicates the number of physical electrical lanes running to the connector.

Standard Features

HP Server ROM

HP ROM (Read Only Memory) is now digitally signed using HP's Corporate Signing Service. This signature is verified before the flash process starts, reducing accidental programming and preventing malicious efforts to corrupt system ROM.

HP ROM provides for essential initialization and validation of hardware components before control is passed to the customer-installed operating system. The ROM also provides the capability of booting from various fixed media (HDD, CD-ROM) and removable media (USB), to continue operation to the operating system.

HP ROM performs very early configuration of the video controller, to allow monitoring of initialization progress via an attached monitor. If configuration or hardware errors are discovered during this early phase of hardware initialization, suitable messages are now displayed on the connected monitor. Additionally, these configuration or hardware errors are logged to the Integrated Management Log (IML) to assist in diagnosis.

HP's ProLiant ROM is used to configure the following:

- Processor and chipset status registers
- System memory, memory map, and memory initialization
- System hardware configuration (Integrated PCI devices and optional PCIe cards).
- Customer-specific BIOS configuration (using the HP ROM-Based Setup Utility (RBSU).

NOTE: For further information, please refer to HP's RBSU (ROM based setup utility) user guide: www.hp.com/support/rbsu.

Storage	Control	ler
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One of the following depending on Model

Entry Models HP Smart Array P420i/ZM (RAID 0/1/1+0)

Base Models HP Smart Array P420i/1GB with FBWC (RAID 0/1/1+0/5/5+0) High Performance Models HP Smart Array P420i/2GB with FBWC (RAID 0/1/1+0/5/5+0) Energy Star - Base Models HP Smart Array P420i/1GB with FBWC (RAID 0/1/1+0/5/5+0)

Internal Storage Devices

Diskette Drive None

Optical Drive Ships standard in Performance Models

*Optional: DVD-ROM, DVD-RW

Hard Drives None ship standard

Drive Bays Standard: 8SFF drive bays total with Optical Bay or 8 LFF drive bays total with

Optical Bay

Optional: +8SFF drive bay (total of 16SFF drive bays)

NOTE: HP ProLiant DL380p series servers offer both LFF and SFF versions. The Optical Drive bay is not available with the optional +8SFF drive bay upgrade. **NOTE:** The Optical drive bay is not available with the +8SFF drive bay optional

upgrade nor 12LFF and 25SFF server models

NOTE: The 8LFF, 12LFF, and 25SFF drive cage versions are not field

upgradeable options from the 8SFF model.

NOTE: The optional +8SFF drive bay requires an additional internal storage controller be selected. HP recommends the HP Smart Array P420/1GB FBWC

6Gb 2-ports Int SAS Controller (P/N 631670-B21).

NOTE: All Pre-configured Models come populated with some hard drive blanks



Standard Features

installed. Should the customer need additional hard drive blanks, they can order more using either P/N 666987-B21: HP SFF Gen8 Hard Drive Blank Kit or P/N 666986-B21: HP LFF Gen8 Hard Drive Blank Kit. The part numbers for single HDD blanks below are also provided should the customer require replacement HDD blanks for their server.

Maximum	Internal
Storage	

Hot Plug SFF SAS	30.0TB	25 x 1.2TB (with optional SFF drive cage)
Hot Plug SFF SATA	25.0TB	25 x 1TB (with optional SFF drive cage)
Hot Plug LFF SAS	36.0TB	12 x 3TB (with optional LFF drive cage)
Hot Plug LFF SATA	48.0TB	12 x 4TB (with optional LFF drive cage)
Hot Plug SFF SAS SSD	20.0TB	25 x 800GB (with optional SFF drive cage)
Hot Plug LFF SATA SSD	4.8TB	12 x 400GB (with optional LFF drive cage)

Interfaces

Serial 1

Video 2 (1 front, 1 back) not active simultaneously

FlexibleLOM Network Ports Some models come standard with 4 x 1GB ports while others come with 2 x

10GB ports (See HP Networking section below for more details and options).

HP iLO Remote 1 Gb Dedicated

Management Network Port

SD slot 1 Internal Secure

NOTE: The SD slot is not a hot-pluggable device. Customers should not

attempt to plug an SD card into the SD slot while the server is powered.

Up to 7 total: up to 2 front, 4 back, 1 internal **USB 2.0 Ports**

Industry Standard Compliance

ACPI 2.0b Compliant PCIe 3.0 Compliant **PXE Support WOL Support**

Microsoft® Logo certifications

USB 2.0 Compliant

Server Power Cords

All Pre-configured servers ship with a high voltage server-to-PDU power cord.

NOTE: HP ProLiant DL servers no longer ship standard with a 12-foot NEMA 5-15P to C13 power cord that connects to 110V US wall outlets in a home or office. ProLiant DL servers are primarily connected to power distribution units (PDUs) in data center racks and now ship standard with a PDU 6-foot C-14 to C13 power cord (AOKO2A). If a user wishes to power a ProLiant DL server using a 110V receptacle (NEMA-15), the 6foot NEMA 5-15 to C13 power cord must be ordered separately (AF556A). See Power Cords section for Worldwide Power Cord options.



Standard Features

Power Specifications

To review typical system power ratings use the HP Power Advisor which is available via the online tool located at URL: www.hp.com/go/proliant-energy-efficient or www.hp.com/go/hppoweradvisor.

NOTE: Power Specification and Technical Content for supported power supplies can be found at: http://h18000.www1.hp.com/products/quickspecs/14209_div/14209_div.html

Common Slot Power Supply

NOTE: Mixing of power supplies in the same server is not supported. All power supplies inside a server must be exactly the same model. Mixing Gold, Platinum, and Platinum Plus certified power supplies is not supported.

HP's Common Slot (CS) power supplies allow for commonality of power supplies across a wide range of ProLiant and Integrity servers, as well as HP Storage solutions, and are designed to provide the highest power supply efficiency without degrading system performance. HP CS power supplies are tested by the Electric Power Research Institute (EPRI) and certified through the ECOS 80 Plus power supply program. HP CS power supply options provide efficiency ratings of up to 94% (80 Plus Platinum) and are available in three power output options - 460W, 750W, and 1200W - allowing the customer to "right-size" a power supply for their specific server configuration. All HP Common Slot power sources are UL, CE Mark Compliant, hot-plug and support redundant configurations.

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

HP CS Platinum Plus power supplies are required when enabling HP's Intelligent Power Discovery (IPD) solution. IPD is the first technology to create an automated, energy-aware network between IT systems and facilities. This allows your company to reclaim millions of dollars in wasted power capacity and downtime costs across data centers. For more information on HP's IPD solution, go to www.hp.com/go/ipd.

It is highly recommended that you use the HP Power Advisor in defining the "Right-Size" power supply for your needs. HP Power Advisor can be accessed at: www.hp.com/go/hppoweradvisor.

NOTE: The 80 PLUS program is a unique forum that unites electric utilities, the computer industry, and consumers in an effort to bring energy efficient technology solutions to the marketplace. 80 Plus independently tests power supply efficiency and publicly posts the results on 80 Plus.org.

Redundant Power: Optional (1+1 or n+n redundant) power supplies can be purchased through power supply option kits (see Power Supplies for part numbers).

NOTE: Power Specification and Technical Content for supported power supplies can be found at: http://h18000.www1.hp.com/products/quickspecs/14209_div/14209_div.html

System Fans

One of the following depending on Model

2P Models have (6) (N+1 redundancy standard)

1P Models have (4) (N+1 redundancy standard)

Required Cabling

For required cabling information, refer to the HP Web site at: www.hp.com/servers/dl380p-gen8.



Standard Features

Operating Systems and Virtualization Software Support for ProLiant Servers Microsoft Windows Server 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/DL380pGen8

Graphics

Integrated Matrox G200 video standard

- 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)

Form Factor

One of the following depending on Model

2U Rack form factor, ships with ball bearing rails and cable management system

8 SFF Drive Bay Version:

3.44 (8.74 cm) Height x 17.54" (44.55 cm) Width x 27.5" (69.85 cm) Length

8 LFF Drive Bay Version:

3.44 (8.74 cm) Height x 17.54" (44.55 cm) Width x 29.5" (74.94cm) Length

On System Management

HP iLO Management Engine

- HP iLO Management Engine is a comprehensive set of embedded management features supporting the complete lifecycle of the server, from initial deployment, through ongoing management, to service alerting and remote support. HP iLO Management Engine comes standard on all HP ProLiant Gen8 servers. The HP iLO Management Engine portfolio includes:
 - HP iLO: The HP iLO (Integrated Lights-Out) management processor is the core foundation for the HP iLO Management Engine
 - HP Agentless Management: Provides built in server health monitoring and alerting capability without OS agents, that starts working the moment a power cord and an Ethernet cable are connected.
 - HP Active Health System: Always on, continuous monitoring for increased stability and shorter downtimes; 100% configuration history; Health and service alerts and easy export and upload to Service and Support.
 - O HP Intelligent Provisioning: Lets customers provision and



Standard Features

configure a single server without any separate media. No more SmartStart CDs or Smart Update Firmware DVD are needed.

- To start Intelligent Provisioning:
 - Press the F10 key during the ProLiant Gen8 server boot process (also known as power on self test or POST).
 - Please go to the Intelligent Provisioning website at www.hp.com/go/intelligentprovisioning for additional information and to view usage videos.
 - Use the Service Pack for ProLiant (SPP) at www.hp.com/go/spp to get firmware and software updates.
- HP iLO Mobile App: 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

NOTE: For more information, visit: http://www.hp.com/go/ilo or HP iLO Management Engine technologies whitepaper

HP Insight management

HP Service Pack for ProLiant (SPP)

HP Service Pack for ProLiant (SPP) and HP Smart Update Manager (HP SUM) version 5 provide a new, comprehensive approach to firmware and system software maintenance. Together they provide better operating stability and ensure maximum uptime. The SPP will be updated at a predictable cadence, typically coinciding with new HP server hardware launches. By enabling all firmware to be updated online and integrating firmware and system software updates in one operation HP SUM and the SPP offer faster updates of individual servers and dramatically faster updates of entire BladeSystem enclosures. Further improving system uptime and stability is the fact that HP provides 12 months of support on each Service Pack for ProLiant.

The user experience around HP SUM and the SPP has been improved in several ways, starting with the web download. A single web page provides access to a single download containing both the latest version of HP SUM version 5 and the latest SPP. Optional smaller subsets with only specific types of servers or specific operating systems are offered to save on download time. The HP SUM application has been re-written to provide a more straightforward, intuitive user interface that guides the user through the steps of discovery, analyses and update, providing comprehensive information on available updates, criticality and interdependencies. This information is also available in reports. By providing the option of multiple local or shared repositories which can be easily updated from hp.com, HP SUM provides the tools to optimize stability and consistency throughout the company. While HP SUM and the SPP will recommend the combinations of firmware and system software that HP has found to be the best practice, the application gives customers the flexibility to set their own specific baseline.

The Service Pack for ProLiant has been rigorously tested with specific attention for interaction between firmware, drivers and agents both within the server as well as in interaction with the BladeSystem enclosure components



Standard Features

(Onboard Administrator and Virtual Connect). This testing ensures the highest quality as well as providing the input for HP SUM to deploy updates taking into account all interdepencies, when determining the correct updates and order of update deployment.

NOTE: The Service Pack for ProLiant (which includes HP SUM 5) can be downloaded from www.hp.com/go/spp/download. More information can be found: www.hp.com/go/spp and http://www.hp.com/go/hpsum

Security

Power-on password Serial interface control Administrator's password

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

HP	Insig	ht	mana	gem	ent

HP Insight Control

HP Insight Control, a product option, delivers essential infrastructure management that can help save time and money by making it easy to deploy, migrate, monitor, remote control, and optimize your IT infrastructure through a single, simple management console. HP Insight Control also supports Location and Power Discovery Services to automate many configuration, asset tracking, and power management tasks to speed implementation and prevent downtime. For more information, see http://www.hp.com/go/insightcontrol.

HP Insight Control includes one year of 24 x 7 HP Software Technical Support and Update Service ensuring rapid access to HP support staff and proactive delivery of software updates. For more information about this service, see: http://www.hp.com/services/insight.

HP iLO Advanced

HP Integrated Lights-Out Advanced License a product option, providing smart remote server management without compromise. iLO Advanced unlocks the full set of remote administration functionality for all HP ProLiant servers by activating the full Virtual Keyboard Video and Mouse remote console, multiuser collaboration, console record and replay, GUI-based and scripted virtual media and virtual folders, and enhanced security and power management functionality. For more information, see: http://www.hp.com/go/iloadvance

HP Matrix Operating Environment The HP Matrix Operating Environment (Matrix OE) for ProLiant and Integrity servers is an integrated command center that helps you instantly adjust to dynamic business demands. This advanced infrastructure management software lets you reduce the cost of common data center tasks by up to 40 percent while keeping pace with your changing business.

The HP Matrix OE includes the automated provisioning, optimization, and recovery management capabilities for HP CloudSystem Matrix, the ideal platform for private cloud and Infrastructure as a Service (laaS).

NOTE: For more information, visit: http://www.hp.com/go/matrixoe

High Performance Clusters

HP Cluster Platforms

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

HP HPC Interconnects

High Performance Computing (HPC) interconnect technologies are available for this server as part of the HP Cluster Platform portfolio. These high-speed InfiniBand and Gigabit interconnects are fully supported by HP when integrated within an HP cluster. Flexible, validated solutions can be defined with the help of configuration tools.

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



Optional Features

HP Insight Cluster Management Utility HP Insight Cluster Management Utility (CMU) is an HP-licensed and HP-supported suite of tools that are used for lifecycle management of hyperscale clusters of Linux ProLiant systems. CMU includes software for the centralized provisioning, management and monitoring of nodes. CMU makes the administration of clusters user friendly, efficient, and effective.

http://www.hp.com/go/cmu

HP HPC Linux Value Pack

HP HPC Linux Value Pack (Value Pack) is an HP-licensed and HP-supported option to HP Insight CMU, for the development and deployment of applications on HPC Cluster Platforms. Value Pack includes the Platform LSF workload scheduler and Platform Application Center, as well as the HP-MPI parallelization library. HP HPC Linux Value Pack

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.

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



Optional Features

HP Insight Online

HP Insight Online is a new addition to the HP Support Center for one stop, secure access to product and HP support information personalized to your IT environment. Insight Online can automatically display devices remotely monitored by HP Insight Remote Support. With Insight Online's easy navigation you can efficiently track your IT support contracts and device status from anywhere and at anytime. www.hp.com/go/insightonline

HP Proactive Insight experience

Prevent problems with innovative, automated monitoring tools and proactive services. The HP Proactive Insight experience consist of using Insight Online, Insight Remote Support, and Proactive Care Support Service as one integrated solution. The Proactive Insight experience provides you with expert advice and personalized, cloud-based automated IT support, helping to prevent unplanned down time and solve problems quickly. For more information, visit: www.hp.com/go/proactiveinsightexperience

for Servers and Storage

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

> Factory Express offers service packages for simple configuration, racking, installation, complex configuration and design services as well as individual factory services, such as image loading, asset tagging, and custom packaging. HP products supported through Factory Express include a wide array of servers and storage: HP Integrity, HP ProLiant, HP ProLiant Server Blades, HP BladeSystem, HP 9000 servers as well as the MSAxxxx, EVA7xxx, EVA, XP, rackable tape libraries and configurable network switches.

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

HP Simple Configurator

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

Service and Support

HP Technology Services for Industry Standard Servers and BladeSystem

Capitalizing on HP ProLiant server and HP BladeSystem capabilities requires a service partner who understands your increasingly complex business technology environment. That's why it makes sense to team up with the people who know HP infrastructure hardware and software best - the experienced professionals at HP Services.

What HP ProLiant and BladeSystem Services can do for you

HP ProLiant and BladeSystem Services can help you design, deploy, test, integrate, support, and manage IT and infrastructure solutions. This way, HP proposes services solutions that include more than just uplift of base warranty. Foundation Care services deliver scalable support-packages for HP industry-standard servers and software. You can choose the type and level of service that is most suitable for their business needs. New to this portfolio is HP Collaborative Support. If you are running business critical environments, HP offers Proactive Care or Critical Advantage. These services help deliver high levels of application availability through proactive service management and advanced technical response

You can get the support you need by choosing from one of a number of service packaged solutions we have designed to address wider set of customer support needs.

HP Technology Services meets business challenges with services offered in three support recommendations - **Optimized Care, Standard Care, and Basic Care** - available for each product group. Such support solutions enable customers to optimize technology operations, minimize risk and drive better business outcomes with easy-to-buy, easy-to-use scalable support recommendations for servers, storage, networking and software designed to meet your specific needs.

All three service recommendations include support services from the broader portfolio of Foundation Care and Proactive Care services.

Optimized Care

Optimized Care: Supports maintaining servers at optimum performance availability

HP ProLiant Server Hardware Installation

Provides for the basic hardware installation of HP branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf

HP Installation and Startup for Insight Control Software / HP SIM

Provides for the deployment and basic configuration of HP Insight Control or HP SIM (Systems Insight Manager) on HP ProLiant ML and DL series servers or HP BladeSystem servers http://h20195.www2.hp.com/v2/GetPDF.aspx/4AAO-9972ENW.pdf

3-Year HP 24x7 4 hour Response, Proactive Care

Helps optimize your systems and delivers high levels of application availability through proactive service management and advanced technical response. A skilled Technical Manager will own your call and end to end until resolved, delivering a single point of contact for you. Helping you to resolve your hardware and software issues and minimizing downtime in your business critical environment.

Additional Services: Factory Express, Education Services, Proactive Select - 30 Credit Package



Service and Support

Standard Care

Standard Care: Service recommendation that maintains high level of server availability

HP ProLiant Server Hardware Installation

Provides for the basic hardware installation of HP branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf

HP Installation and Startup for Insight Control Software / HP SIM

Provides for the deployment and basic configuration of HP Insight Control or HP SIM (Systems Insight Manager) on HP ProLiant ML and DL series servers or HP BladeSystem servers http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA0-9972ENW.pdf

3-Year HP 24x7 4 hour Response, Collaborative Support

Provides problem resolution support across the stack of HW, firmware, and HP and 3rd party SW. In case the issue is with 3rd party SW, HP does known issue resolution. If HP cannot solve the issue, it will contact the third-party vendor and create a problem incident on your behalf. http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA3-8232ENW.pdf

Additional Services: Software support service with 24X7 availability with a 2 hour response, Training courses on Microsoft, Linux (Red Hat and SUSE), VMware, and HP Insight Software, 10 Proactive Select Credit package, Factory Express

http://www8.hp.com/us/en/business-services/it-services.html?compURI=1078865

Basic Care

Basic Care: delivers minimum recommended support service level

HP ProLiant Server Hardware Installation

Provides for the basic hardware installation of HP branded servers, storage devices and networking options to assist you in bringing your new hardware into operation in a timely and professional manner http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-9356EN.pdf

3-Year HP 24x7 4 hour Response, Hardware Support Onsite Service

Provides you with rapid remote support and if required an HP authorized technical engineer will be on site 24X7 begin hardware maintenance service within 4 hours of the service request being logged http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EEE.pdf

3-Year, HP 24x7 Software Support for Insight Control

Provides remote 3-year software support service that delivers comprehensive software services, including access to HP technical resources and software updates

http://h20195.www2.hp.com/V2/GetPDF.aspx/5981-6645EEE.pdf

Additional Services: Factory Express, Education Services, Proactive Select - 10 Credits

Insight Remote Support

Provides 24 X 7 remote monitoring, proactive notifications, and problem resolution. Learn more http://www.hp.com/go/insightremotesupport



Service and Support

HP Support Center

Personalized online support portal with access to information, tools and experts to support HP business products. Submit support cases online, chat with HP experts, access support resources or collaborate with peers. Learn more http://www.hp.com/go/hpsc

HP's Support Center Mobile App* allows you to resolve issues yourself or quickly connect to an agent for live support. Now, you can get access to personalized IT support anywhere, anytime.

HP Insight Remote Support and HP Support Center are available at no additional cost with a HP warranty, HP Care Pack or HP contractual support agreement.

*HP' Support Center Mobile App is subject to local availability

Warranty / Service Coverage

For ProLiant servers and storage systems, the services cover HP-branded hardware options qualified for the server, purchased at the same time or afterward, internal to the enclosure, as well as external monitors up to 22" and tower UPS products; these items will be covered at the same service level and for the same coverage period as the server unless the maximum supported lifetime and/or the maximum usage limitation has been exceeded. Coverage of the UPS battery is not included; standard warranty terms and conditions apply.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by HP due to malfunction. It does not apply to any exchange of Disk or SSD/Flash Drives that have not failed. SSD/Flash Drives that are specified by HP as consumable parts and/or that have exceeded maximum supported lifetime and/or the maximum usage limit as set forth in the manufacturer's operating manual or the technical data sheet are not eligible for the defective media retention service feature option.

For more information

To learn more on HP ProLiant servers and HP BladeSystem servers, please contact your HP sales representative or HP Authorized Channel Partner. Or visit: http://www.hp.com/services/proliant



Pre-configured Models

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

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

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

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

NOTE: 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 Gen8 Hard Drive Blank Kit or P/N 666986-B21: HP LFF Gen8 Hard Drive Blank Kit.

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

Entry Models

HP ProLiant DL380p Gen8 Processor(s) E5-2609 1P 4GB-R P420i **SFF 460W PS Entry Server**

642121-xx1

Cache Memory

Memory

(1) Intel® Xeon® E5-2609 (2.4GHz/4-core/10MB/6.4GT-s QPI/80W) Processor 10MB (1x10MB) Level 3

4GB (1x4GB) PC3L-10600R (DDR3-1333) Registered DIMMS NOTE: Total 24 DIMM slots available with processor upgrade (2P

configuration)

Network Controller Storage Controller

HP Ethernet 1Gb 4-port 331FLR Adapter HP Smart Array P420i/ZM (RAID 0/1/1+0)

Hard Drive None ship standard

Internal Storage Standard: 8 SFF SAS/SATA HDD Bays; includes 6 SFF hard drive blanks

Optional: +8 SFF (total of 16) SFF SAS/SATA HDD Bays

Optical Drive Bay Optional Slim Optical Bay (SATA DVD-RW/ROM Optical Drive) **PCI-Express Slots** 3 PCIe slots (+3 PCI slots available with upgrade option)

Power Supply (1) HP 460W Common Slot Gold Hot Plug Power Supply (92% Efficient)

Fans (4) (N+1 redundancy standard)

Management HP iLO Management Engine (standard)

Optional: HP Insight Control

Energy Star Meets Energy Star requirements Rack (2U), HP Friction Rail Kit Form Factor

NOTE: The Friction Rail Kit is not compatible with the Cable Management Arm

option.

NOTE: The HP 2U Gen8 Cable Management Arm is not available when using

Friction Rails.

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.

Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support Warranty

with next business day response.



Pre-configured Models

Base Models

642107-xx1

Six-Core Models **HP ProLiant DL380p Gen8** One of the following E5-2640 1P 16GB-R P420i depending on Model SFF 460W PS Base Server

Processor(s)

HP ProLiant DL380p Gen8 Cache Memory Memory

E5-2630 1P 16GB-R P420i SFF 460W PS Base Server 642119-xx1

HP ProLiant DL380p Gen8 E5-2620 1P 16GB-R P420i Storage Controller SFF 460W PS Base Server 642120-xx1

Network Controller

Hard Drive Internal Storage

Optical Drive Bay PCI-Express Slots Power Supply

Fans

Management

Energy Star Form Factor

Warranty

(1) Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/7.2GT-s QPI/95W, DDR3-

1333. HT. Turbo2- 3/3/4/4/5/5) Processor

(1) Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/7.2GT-s QPI/95W, DDR3-

1333, HT, Turbo2-3/3/4/4/5/5) Processor

(1) Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/7.2GT-s QPI/95W, DDR3-

1333, HT, Turbo2-3/3/4/4/5/5) Processor

15MB (1x15MB) Level 3 16GB (4x4GB) PC3L-10600R (DDR3-1333) Registered DIMMS

NOTE: Total 24 DIMM slots available with processor upgrade (2P

configuration)

HP Ethernet 1Gb 4-port 331FLR Adapter

HP Smart Array P420i/1GB FBWC (RAID 0/1/1+0/5/5+0)

None ship standard

Standard: 8 SFF SAS/SATA HDD Bays; includes 6 SFF hard drive blanks

Optional: +8 SFF (total of 16) SFF SAS/SATA HDD Bays

Optional Slim Optical Bay (SATA DVD-RW/ROM Optical Drive) 3 PCIe slots (+3 PCI slots available with upgrade option)

(1) HP 460W CS Platinum Plus Hot Plug Power Supply (94% Efficient)

(4) (N+1 redundancy standard)

HP iLO Management Engine (standard)

Optional: HP Insight Control

Meets Energy Star requirements

Rack (2U), HP Ball Bearing Rail Kit /Cable Management Arm standard

NOTE: The HP 2U Gen8 Cable Management Arm is not available when using

Friction Rails.

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.

Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support

with next business day response.

Pre-configured Models

High Performance Models

NOTE: These Models are Energy Star Certified.

Eight-Core Models HP ProLiant DL380p Gen8 One of the following E5-2690 2P 32GB-R P420i depending on Model SATA SFF 750W PS High

Perf Server 662257-xx1

HP ProLiant DL380p Gen8 E5-2665 2P 32GB-R P420i SFF 750W PS High Perf 642105-xx1

HP ProLiant DL380p Gen8 E5-2650 2P 32GB-R P420i Storage Controller SFF 750W PS High Perf Server

642106-xx1

Processor(s)

Cache Memory

Memory

Network Controller One of the following depending on Model

Hard Drive

Internal Storage

Optical Drive Bay PCI-Express Slots

Power Supply

Fans Management

Energy Star

Form Factor

Warranty

(2) Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/8GT-s QPI/135W, DDR3-1600. HT, Turbo2- 4/4/4/5/5/7/7/9) Processor (2) Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/8GT-s QPI/115W, DDR3-1600,

HT, Turbo2-4/4/5/5/6/6/7/7) Processor

(2) Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/8GT-s QPI/95W, DDR3-1600, HT, Turbo2-4/4/5/5/5/7/8/8) Processor

NOTE: SFP Transceivers for the 530FLR-SFP+ are not included with the server

20MB (1x20MB) Level 3

32GB (4x8GB) PC3-12800R (DDR3-1600) Registered DIMMS

NOTE: Total 24 DIMM slots available. HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter (on E5-2690/E5-2665 Models)

and must be purchased separately. HP Ethernet 1Gb 4-port 331FLR Adapter (on E5-2650 Model)

HP Smart Array P420i/2GB FBWC (RAID 0/1/1+0/5/5+0) None ship standard

Standard: 8 SFF SAS/SATA HDD Bays; includes 6 SFF hard drive blanks

Optional: +8 SFF (total of 16) SFF SAS/SATA HDD Bays

6 PCIe slots (includes second riser slot upgrade option)

(2) HP 750W CS Platinum Plus Hot Plug Power Supplies (94% Efficient)

(6) (N+1 redundancy standard)

HP iLO Management Engine (standard)

HP Insight Control Standard

Meets Energy Star requirements Rack (2U), HP Ball Bearing Rail Kit /Cable Management Arm standard

NOTE: The HP 2U Gen8 Cable Management Arm is not available when using

Friction Rails.

DVD-RW standard

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.

Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support

with next business day response.



Pre-configured Models

Energy Star - Base Models

NOTE: These Models are Energy Star Certified.

Six-Core Model
HP ProLiant DL380p Gen8

E5-2630 2P 16GB-R P420i Cache Memory Hot Plug SFF 460W PS

Server

677278-xx1

Processor(s)

(2) Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/7.2GT-s QPI/95W, DDR3-

1333, HT, Turbo2-3/3/4/4/5/5)

Cache Memory 15MB (1x15MB) Level 3

Memory 16GB (4x4GB) PC3L-10600R (DDR3-1333) Registered DIMMS

NOTE: Total 24 DIMM slots.

Network Controller HP Ethernet 1Gb 4-port 331FLR Adapter

Storage Controller HP Smart Array P420i/1GB with FBWC (RAID 0/1/1+0/5/5+0)

Hard Drive None ship standard

Internal Storage Standard: 8 SFF SAS/SATA HDD Bays; includes 6 SFF hard drive blanks

Optional: +8 SFF (total of 16) SFF SAS/SATA HDD Bays

Optical Drive Bay Optional Slim Optical Bay (SATA DVD-RW/ROM Optical Drive)
PCI-Express Slots 3 PCI slots available with upgrade option)

Power Supply (1) 460W HP CS Platinum Plus Hot Plug Power Supply (94% Efficient)

Fans (6) (N+1 redundancy standard)

Management HP iLO Management Engine (standard)

Optional: HP Insight Control

Energy Star Meets Energy Star requirements

PRC

Form Factor Rack (2U), HP Ball Bearing Rail Kit /Cable Management Arm standard

NOTE: The HP 2U Gen8 Cable Management Arm is not available when using

Friction Rails.

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.

Warranty Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support

with next business day response.

Country Code Key

xx = 00 U.S. xx = 20 Brazil xx = 29 Japan xx = 37 APD xx = 42 Europe

xx = AA



Configuration Information - Factory Integrated Models

NOTE: 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.

NOTE: Factory Integrated Models must start with a CTO Server.

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

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

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

HP Models

HP ProLiant DL380p Gen8 8 LFF Configure-to-order Server

665553-B21

Factory Integrated Model ships with:

2 x HP Smart Socket Guides for fast processor installation.

24 DIMM slots for RDIMM, LRDIMM and UDIMM Memory installation

1 FlexibleLOM connector: (see Step2: HP FlexibleNIC section below for NIC choices to

populate the embedded connector)

Smart Array P420i Controller w/ Zero Memory (ZM)

I/O slots - 3 Slots come standard:

- Slot 1 FL/FH x16 PCIe 3.0 (x16 connector)
- Slot 2 HL/FH x8 PCIe 3.0 (x8 connector)
- Slot 3 HL/FH x4 PCIe 2.0 (x8 connector)
- Additional Slots may be added via selections from the PCI Information and Options subsection

System Fans - 4 (2 additional fans included with second processor)

Drive Cage - 8LFF (Optical media drive optional)

USB - 4 Rear, 2 Front, 1 Internal, 1 SD slot

HP iLO Management Engine (standard)

NOTE: Power Supply & Rail Kit not included - choose from Step 3 & 4 sections below

HP ProLiant DL380p Gen8 8 SFF Configure-to-order Server

653200-B21

Factory Integrated Model ships with:

1 FlexibleLOM connector: (see Step 2: HP FlexibleLOM section below for NIC choices to populate the embedded connector)

Smart Array P420i Controller w/ Zero Memory (ZM)

I/O slots - 3 Slots come standard:

- Slot 1 FL/FH x16 PCIe 3.0 (x16 connector)
- Slot 2 HL/FH x8 PCIe 3.0 (x8 connector)
- Slot 3 HL/FH x4 PCIe 2.0 (x8 connector)
- Additional Slots may be added via selections from the PCI Information and Options subsection

System Fans - 4 (2 additional fans included with second processor)

Drive Cage - 8SFF (Optical media drive OR Second 8SFF drive cage optional)

USB - 4 Rear, 2 Front, 1 Internal, 1 SD slot

HP iLO Management Engine (standard)

NOTE: Power Supply & Rail Kit not included - choose from Step 3 & 4 sections below

HP ProLiant DL380p Gen8 12 LFF Configure-to-order Server

665552-B21



Configuration Information - Factory Integrated Models

Factory Integrated Model ships with:

1 FlexibleLOM connector: (see Step 2: HP FlexibleLOM section below for NIC choices to populate the embedded connector)

Smart Array P420i Controller w/ Zero Memory (ZM)

I/O slots - 3 Slots come standard:

- Slot 1 FL/FH x16 PCIe 3.0 (x16 connector)
- Slot 2 HL/FH x8 PCIe 3.0 (x8 connector)
- Slot 3 HL/FH x4 PCIe 2.0 (x8 connector)
- Additional Slots may be added via selections from the PCI Information and Options subsection

System Fans - 4 (2 additional fans included with second processor)

Drive Cage - 12LFF (with built-in expander)

USB - 4 Rear, 2 Front, 1 Internal, 1 SD slot

HP iLO Management Engine (standard)

NOTE: Power Supply & Rail Kit not included - choose from Step 3 & 4 sections below

NOTE: Customer can only choose from 115W or lower E5-2600 processors.

NOTE: This chassis comes with a built-in expander. All drives can be driven off of the embedded P420i controller.

NOTE: Customers must add a minimum of a 512MB controller cache module when choosing this CTO server.

NOTE: If a P822 controller is required, it cannot be populated in slot 3.

NOTE: If a P421 controller is required, it cannot be populated in slot 1.

NOTE: HyperCloud DIMMs, Q4000, and Q6000 options are not supported in this CTO server.

NOTE: Customer will not be able to get an optical drive, SID, second front USB, and ID label.

HP ProLiant DL380p Gen8 25 SFF Configure-to-order Server

665554-B21

Factory Integrated Model ships with:

1 FlexibleLOM connector: (see Step 2: HP FlexibleLOM section below for NIC choices to populate the embedded connector)

Smart Array P420i Controller w/ Zero Memory (ZM)

I/O slots - 3 Slots come standard:

- Slot 1 FL/FH x16 PCIe 3.0 (x16 connector)
- Slot 2 HL/FH x8 PCIe 3.0 (x8 connector)
- Slot 3 HL/FH x4 PCIe 2.0 (x8 connector)
- Additional Slots may be added via selections from the PCI Information and Options subsection

System Fans - 4 (2 additional fans included with second processor)

Drive Cage - 25SFF (with built-in expander)

USB - 4 Rear, 2 Front, 1 Internal, 1 SD slot

HP iLO Management Engine (standard)

NOTE: Power Supply & Rail Kit not included - choose from Step 3 & 4 sections below

NOTE: Customers cannot select the E5-2643 processor in this configure-to-order model.

NOTE: This chassis comes with a built-in expander. All drives can be driven off of the embedded P420i controller.



Configuration Information - Factory Integrated Models

NOTE: Customers must add a minimum of a 512MB controller cache module when choosing this CTO server.

NOTE: If a P822 controller is required, it cannot be populated in slot 3.

NOTE: HyperCloud DIMMs, Q4000, and Q6000 options are not supported in this CTO server.

NOTE: Customer will not be able to get an optical drive, SID, second front USB, and ID

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

HP Processors

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

Entry Processors

NOTE: All support up to 1066MHz memory speeds.

HP DL380p Gen8 Intel® Xeon® E5-2609 (2.40GHz/4-core/10MB/80W) FIO Processor Kit

HP DL380p Gen8 Intel® Xeon® E5-2603 (1.80GHz/4-core/10MB/80W) FIO Processor Kit

662254-L21

Base Processors

NOTE: All support up to 1333MHz DDR3 memory speeds.

 HP DL380p Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) FIO Processor Kit
 662246-L21

 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) FIO Processor Kit
 662248-L21

 HP DL380p Gen8 Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/95W) FIO Processor Kit
 662250-L21

 HP DL380p Gen8 Intel® Xeon® E5-2630L (2.0GHz/6-core/15MB/60W) FIO Processor Kit
 675092-L21

Performance Processors

NOTE: All support up to 1600MHz DDR3 memory speeds

HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) FIO Processor Kit 662226-L21 HP DL380p Gen8 Intel® Xeon® E5-2680 (2.7GHz/8-core/20MB/130W) FIO Processor Kit 662228-L21 HP DL380p Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/115W) FIO Processor Kit 662240-L21 HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/6-core/15MB/130W) FIO Processor Kit 662214-L21 HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) FIO Processor Kit 666509-L21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) FIO Processor Kit 662242-L21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) FIO Processor Kit 662244-L21 HP DL380p Gen8 Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/70W) FIO Processor Kit 662256-L21 HP DL380p Gen8 Intel® Xeon® E5-2643 (3.3GHz/4-core/10MB/130W) FIO Processor Kit 662216-L21 HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) FIO Processor Kit 662224-L21

HP Memory

NOTE: HP memory from previous generation servers are 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 Gen8. For additional information, please see the HP SmartMemory QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/14225_div/14225_div.html **NOTE:** LRDIMM, RDIMM, UDIMM, and HDIMMs are all distinct memory technologies and cannot be mixed within a server. The majority of ProLiant Gen8 servers support LRDIMM, RDIMM and UDIMMs.

Registered DIMMs (RDIMMs)



Configuration Information - Factory Integrated Models

HP 4GB (1x4GB) Single Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647893-B21
HP 4GB (1x4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647895-B21
HP 8GB (1x8GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647897-B21
HP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647899-B21
HP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	690802-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647901-B21
HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	672631-B21
Unbuffered with ECC DIMMs (UDIMMs)	
HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669320-B21
HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647905-B21
HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669322-B21
HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647907-B21
HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669324-B21
HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647909-B21
Load Reduced DIMMs (LRDIMMs)	
HP 32GB (1x32GB) Quad Rank x4 PC3L-10600L (DDR3-1333) Load Reduced CAS-9 Low Voltage Memory Kit	647903-B21
HyperCloud DIMMs (HDIMMs)	
HP 16GB (1x16GB) Dual Rank x4 PC3-10600H (DDR3-1333) HyperCloud CAS-9 FIO Memory Kit	678279-B21
NOTE: In order to use HyperCloud memory, 12 DIMMs per processor must be populated.	
NOTE: All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: www.hp.com/go/ddr3memory-configurator. 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: PC3L is a low voltage memory	
FlexibleLOM Adapters NOTE: Only one Flexible OM can be added to the server. These entires are ungradeable	
MUTE: Univ and Elevible! (1M can be added to the corver. These options are ungradeable	

HP Networking

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:** For 10Gb adapters, a minimum of two Gigabytes (2 GB) of server memory is required per each adapter.

HP Ethernet 1Gb 4-port 331FLR FIO Adapter

684208-B21



Configuration Information - Factory Integrated Models

HP Ethernet 10Gb 2-port 530FLR-SFP+ FIO Adapter	684210-B21
HP FlexFabric 10Gb 2-port 554FLR-SFP+ FIO Adapter	684213-B21
HP Ethernet 1Gb 4-port 366FLR FIO Adapter	684217-B21
HP Ethernet 10Gb 2-port 560FLR-SFP+ FIO Adapter	684218-B21
HP Ethernet 10Gb 2-port 570FLR-SFP+ FIO Adapter	728983-B21

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/go/ProLiantNICs.

HP InfiniBand HP InfiniBand FDR/EN 10/40Gb Dual Port 544FLR-QSFP Adapter

649282-B21 649283-B21

NOTE: 10Gb Ethernet requires the use of the QSFP to SFP+ adapter P/N 655874-B21.

NOTE: Please see the QuickSpecs for additional information:

HP InfiniBand QDR/EN 10Gb Dual Port 544FLR-QSFP Adapter

http://h18000.www1.hp.com/products/quickspecs/13078_div/13078_div.html

HP Power Supplies

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

NOTE: Prior to making a power supply selection it is highly recommended that the HP Power Advisor is run to determine the right size power supply for your server configuration. The HP Power Advisor is located at: www.hp.com/go/hppoweradvisor.

HP Common Slot Platinum Plus Power Supply Kits

NOTE: The following Power Supplies offer 94% Efficiency and lower total harmonic distortion to save on energy costs. Common Slot Platinum Plus Power Supplies support Power Discovery Services when used with the HP Intelligent PDUs.

HP 460W Common Slot Platinum Plus Hot Plug Power Supply Kit	656362-B21
HP 750W Common Slot Platinum Plus Hot Plug Power Supply Kit	656363-B21
HP 1200W Common Slot Platinum Plus Hot Plug Power Supply Kit	656364-B21

HP Common Slot Gold Power Supplies

NOTE: The following Power Supplies offer 92% Efficiency.

HP 460W Common Slot Gold Hot Plug Power Supply Kit 503296-B21
HP 750W Common Slot Gold Hot Plug Power Supply Kit 512327-B21

HP Common Slot -48VDC Power Supplies

NOTE: The following Power Supplies offer 92% Efficiency.

HP 750W Common Slot -48VDC Hot Plug Power Supply Kit

636673-B21

NOTE: The 750W Common Slot -48VDC Hot Plug Power Supply Kit does not include a power cord. It has been designed with a terminal block connection that allows for custom design of power cords by the end user. To select an alternative power cord for your server, please review the HP Common Slot Power Supplies QuickSpecs.

NOTE: Option Kits for AC power supplies include the power supply and one PDU IEC cable.

NOTE: HP ProLiant servers ship with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For a full list of optional HP power cords please go to www.hp.com/products/powercords



Configuration Information - Factory Integrated Models

NOTE: Power Specification and Technical Content for supported power supplies can be found at:

http://h18000.www1.hp.com/products/quickspecs/14209_div/14209_div.html

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

HP Rack Kits

NOTE: Gen8 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 Gen8 server.

NOTE: Rail kits are optional for DL380p Gen8 and are no longer included standard with the server. Customers have the option to purchase their server without a rail kit. The HP 2U Gen8 Cable Management Arm is not available when using Friction Rails.

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.

NOTE: See HP Rack Options in Additional Options section of this QuickSpecs for more rack kit choices.

HP 2U Friction Gen8 Rail FIO Kit

663476-B21 **NOTE:** Kit contains non-telescoping friction rails which do not allow for in-rack

serviceability. The HP Gen8 Cable Management Arm is not available when using Friction Rails.

Step 4: Choose Additional Options for Factory Integration

NOTE: For additional options, please refer to the "Core Options and Additional Options" section below.



Core Options

NOTE: Kit is required to support a nVidia Q6000 double wide graphics card. NOTE: The double wide rise rage kit is not supported in the 12LFF and 25SFF Configure-to-order Servers. HP DL380P Gen8 NEBS Conversion Cage Kit NOTE: This conversion kit is only available for the 8SFF base server model. NOTE: A NEBS conversion cage kit is required for each riser in an 8SFF base server for the server to meet NEBS and ETSI certification. HP Processors Entry Processors NOTE: All support up to 1066MHz memory speeds. HP DL380P Gen8 Intel® Xeon® E5-2609 (2.40GHz/4-core/10MB/80W) Processor Kit 662254-B21 HP DL380P Gen8 Intel® Xeon® E5-2609 (2.40GHz/4-core/10MB/80W) Processor Kit 662254-B21 HP DL380P Gen8 Intel® Xeon® E5-2609 (2.40GHz/4-core/15MB/95W) Processor Kit 662246-B21 Base Processors NOTE: All support up to 1333MHz DDR3 memory speeds. HP DL380P Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) Processor Kit 662246-B21 HP DL380P Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) Processor Kit 662246-B21 HP DL380P Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662250-B21 HP DL380P Gen8 Intel® Xeon® E5-2630 (2.0GHz/6-core/15MB/95W) Processor Kit 662250-B21 HP DL380P Gen8 Intel® Xeon® E5-2630 (2.0GHz/6-core/15MB/95W) Processor Kit 662266-B21 HP DL380P Gen8 Intel® Xeon® E5-2630 (2.9GHz/8-core/20MB/135W) Processor Kit 66226-B21 HP DL380P Gen8 Intel® Xeon® E5-2660 (2.9GHz/8-core/20MB/130W) Processor Kit 662248-B21 HP DL380P Gen8 Intel® Xeon® E5-2667 (2.9GHz/8-core/20MB/130W) Processor Kit 662248-B21 HP DL380P Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) Processor Kit 662248-B21 HP DL380P Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) Processor Kit 662248-B21 HP DL380P Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/95W) Processor Kit 662248-B21 HP DL380P Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/95W) Processor Kit 662248-B21 HP DL380P Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/95W) Processor Kit 662248-B21 HP DL380P Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/95W) Processor Kit 662248-B2	NOTE: Some options ma	ay not be integrated at the factory. Contact your local sales representative for additional inform	nation.		
HP DL380p Gen8 Double Wide Riser Cage Kit NOTE: Kit is required to support an IVIda G5000 double wide graphics card. NOTE: The double wide riser cage kit is not supported in the 12LFF and 25SFF Configure-to-order Servers. HP DL380p Gen8 NEBS Conversion Cage Kit NOTE: This conversion kit is only available for the 85FF base server model. NOTE: A NEBS conversion and kit is required for each riser in an 85FF base server for the server to meet NEBS and ETSI certification. HP Processors NOTE: All support up to 1066MHz memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2609 (2.40GHz/4-core/10MB/80W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2603 (1.80GHz/4-core/10MB/80W) Processor Kit Base Processors NOTE: All support up to 1333MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2630 (2.5GHz/6-core/15MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit G62246-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit G62250-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit Ferformance Processors NOTE: All support up to 1600MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/20MB/135W) Processor Kit Ferformance Processors NOTE: All support up to 1600MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2660 (2.9GHz/8-core/20MB/135W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2660 (2.9GHz/8-core/20MB/135W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2660 (2.9GHz/8-core/20MB/135W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2660 (2.9GHz/8-core/20MB/135W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2660 (2.9GHz/8-core/20MB/135W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2660 (2.9GHz/8-core/20MB/135W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2660 (2.9GHz/8-core/20MB/135W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2660 (2.9GHz/8-core/20MB/95W) P	HP Unique Options	HP DL380p/560 Gen8 3 Slot PCI-E Riser Kit			
NOTE: Kit is required to support a nVidia (06000 double wide graphics card. NOTE: Kit contains a power cable for the nVidia (06000 double wide graphics card. NOTE: The double wide riser cage kit is not supported in the 12LFF and 25SFF Configure-to-order Servers. HP D1380p Gen8 NEBS Conversion Cage Kit NOTE: This conversion kit is only available for the 8SFF base server model. NOTE: A NEBS conversion cage kit is required for each riser in an 8SFF base server for the server to meet NEBS and ETSI certification. HP Processors NOTE: All support up to 1066MHz memory speeds. HP D1380p Gen8 Intel® Xeon® E5-2609 (2.40GHz/4-core/10MB/80W) Processor Kit 662254-B21 Base Processors NOTE: All support up to 1333MHz DDR3 memory speeds. HP D1380p Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) Processor Kit 662246-B21 HP D1380p Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) Processor Kit 662248-B21 HP D1380p Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) Processor Kit 662248-B21 HP D1380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662248-B21 HP D1380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662248-B21 HP D1380p Gen8 Intel® Xeon® E5-2630 (2.0GHz/6-core/15MB/95W) Processor Kit 662248-B21 HP D1380p Gen8 Intel® Xeon® E5-2630 (2.0GHz/6-core/20MB/135W) Processor Kit 66226-B21 HP D1380p Gen8 Intel® Xeon® E5-2660 (2.0GHz/6-core/20MB/135W) Processor Kit 66226-B21 HP D1380p Gen8 Intel® Xeon® E5-2660 (2.9GHz/6-core/20MB/135W) Processor Kit 66224-B21 HP D1380p Gen8 Intel® Xeon® E5-2660 (2.9GHz/6-core/20MB/135W) Processor Kit 66224-B21 HP D1380p Gen8 Intel® Xeon® E5-2660 (2.9GHz/6-core/20MB/135W) Processor Kit 66224-B21 HP D1380p Gen8 Intel® Xeon® E5-2660 (2.9GHz/6-core/20MB/135W) Processor Kit 66224-B21 HP D1380p Gen8 Intel® Xeon® E5-2660 (2.9GHz/6-core/20MB/135W) Processor Kit 66224-B21 HP D1380p Gen8 Intel® Xeon® E5-2660 (2.9GHz/6-core/20MB/95W) Processor Kit 66224-B21 HP D1380p Gen8 Intel® Xeon® E5-2660 (2.9GHz/6-core/20MB/95W) Processor Kit 66224-B21 HP D1380p Gen8 Intel® Xeon		HP DL380p/560 Gen8 2 Slot 2x16 PCI-E Riser Kit	653208-B21		
NOTE: Kit contains a power cable for the nVidia Q6000 double wide graphics card. NOTE: The double wide riser cage kit is not supported in the 12LFF and 25SFF Configure-to-order Servers. HP DL380p Gen8 NEBS Conversion Cage Kit NOTE: This conversion cage kit is required for each riser in an 8SFF base server for the server to meet NEBS and ETSI certification. HP Processors NOTE: All support up to 1066MHz memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2609 (2.40GHz/4-core/10MB/80W) Processor Kit 66225-B21 HP DL380p Gen8 Intel® Xeon® E5-2609 (2.40GHz/4-core/10MB/80W) Processor Kit 66225-B21 NOTE: All support up to 1333MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.0GHz/6-core/15MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.0GHz/6-core/15MB/95W) Processor Kit 662226-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.0GHz/6-core/15MB/95W) Processor Kit 662226-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.0GHz/6-core/15MB/95W) Processor Kit 662226-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/6-core/20MB/135W) Processor Kit 662226-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/135W) Processor Kit 662226-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/135W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/135W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/135W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/135W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662240-B21 HP DL380p Gen8 Int		HP DL380p Gen8 Double Wide Riser Cage Kit	662885-B21		
NOTE: The double wide riser cage kit is not supported in the 12LFF and 25SFF Configure-to-order Servers. HP DL380p Gen8 NEBS Conversion Cage Kit NOTE: his conversion kit is only available for the 85FF base server model. NOTE: A NEBS conversion cage kit is required for each riser in an 85FF base server for the server to meet NEBS and ETSI certification. HP Processors Entry Processors NOTE: All support up to 1066MHz memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2609 (2.40GHz/4-core/10MB/80W) Processor Kit 66225-B21 HP DL380p Gen8 Intel® Xeon® E5-2603 (1.80GHz/4-core/10MB/80W) Processor Kit 662254-B21 Base Processors NOTE: All support up to 1333MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.0GHz/6-core/15MB/95W) Processor Kit 66226-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.0GHz/6-core/15MB/95W) Processor Kit 675092-B21 Performance Processors NOTE: All support up to 1600MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2680 (2.0GHz/6-core/20MB/135W) Processor Kit 662226-B21 HP DL380p Gen8 Intel® Xeon® E5-2690 (2.0GHz/6-core/20MB/135W) Processor Kit 662226-B21 HP DL380p Gen8 Intel® Xeon® E5-2690 (2.0GHz/8-core/20MB/135W) Processor Kit 662228-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.0GHz/8-core/20MB/135W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.0GHz/8-core/20MB/135W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/135W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662244-B21					
Configure-to-order Servers. HP DL380p Gen8 NEBS Conversion Cage Kit NOTE: This conversion Kit is only available for the 8SFF base server model. NOTE: A NEBS conversion cage kit is required for each riser in an 8SFF base server for the server to meet NEBS and ETSI certification. HP Processors NOTE: All support up to 1066MHz memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2609 (2.40GHz/4-core/10MB/80W) Processor Kit 662254-B21 Base Processors NOTE: All support up to 1333MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2630 (1.80GHz/4-core/15MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662268-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.0GHz/6-core/15MB/95W) Processor Kit 675092-B21 Performance Processors NOTE: All support up to 1600MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/6-core/20MB/135W) Processor Kit 66226-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.9GHz/6-core/20MB/135W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.9GHz/6-core/20MB/130W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.9GHz/6-core/20MB/130W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.9GHz/6-core/20MB/15W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.9GHz/6-core/20MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.9GHz/6-core/20MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.9GHz/6-core/20MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.9GHz/6-core/20MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.9GHz/6-core/20MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.9GHz/6-core/20MB/95W) Processor					
HP DL380p Gen8 NEBS Conversion Cage Kit NOTE: This conversion kit is only available for the 85FF base server model. NOTE: A NEBS conversion cage kit is required for each riser in an 85FF base server for the server to meet NEBS and ETSI certification. HP Processors NOTE: All Support up to 1066MHz memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2609 (2.40GHz/4-core/10MB/80W) Processor Kit 662254-B21 Base Processors NOTE: All support up to 1333MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2603 (1.80GHz/4-core/15MB/95W) Processor Kit 662246-B21 Base Processors NOTE: All support up to 1333MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/95W) Processor Kit 662250-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662250-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.9GHz/6-core/20MB/135W) Processor Kit 662268-B21 HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/8-core/20MB/135W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/8-core/20MB/135W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/135W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/15W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.6GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.6GHz/8-core/20MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.6GHz/8-core/20MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.6GHz/8-core/20MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.6GHz/8-core/20MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.6GH		- · · · · · · · · · · · · · · · · · · ·			
NOTE: This conversion kit is only available for the 85FF base server model. NOTE: A NEBS conversion cage kit is required for each riser in an 85FF base server for the server to meet NEBS and ETSI certification. HP Processors NOTE: All Support up to 1066MHz memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2609 (2.40GHz/4-core/10MB/80W) Processor Kit 662254-B21 HP DL380p Gen8 Intel® Xeon® E5-2603 (1.80GHz/4-core/10MB/80W) Processor Kit 662254-B21 Base Processors NOTE: All Support up to 1333MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/95W) Processor Kit 662260-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.0GHz/6-core/15MB/95W) Processor Kit 675092-B21 Performance Processors NOTE: All support up to 1600MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2630 (2.9GHz/6-core/20MB/135W) Processor Kit 662266-B21 HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/6-core/20MB/135W) Processor Kit 662226-B21 HP DL380p Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/135W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/135W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.9GHz/8-core/20MB/135W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.4GHz/8-core/20MB/135W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.4GHz/8-core/20MB/15W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.4GHz/8-core/20MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.4GHz/8-core/20MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.4GHz/8-core/20MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.4GHz/8-core/20MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.4GHz/8-core/20MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.6GHz/8-core/20MB/95W) Processor Kit		-	7070CF B31		
NOTE: A NEBS conversion cage kit is required for each riser in an 8SFF base server for the server to meet NEBS and ETSI certification. HP Processors NOTE: All support up to 1066MHz memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2609 (2.40GHz/4-core/10MB/80W) Processor Kit 66225-B21 HP DL380p Gen8 Intel® Xeon® E5-2603 (1.80GHz/4-core/10MB/80W) Processor Kit 662254-B21 Base Processors NOTE: All support up to 1333MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662250-B21 HP DL380p Gen8 Intel® Xeon® E5-2630L (2.0GHz/6-core/15MB/95W) Processor Kit 662250-B21 HP DL380p Gen8 Intel® Xeon® E5-2630L (2.0GHz/6-core/15MB/60W) Processor Kit 675092-B21 Performance Processors NOTE: All support up to 1600MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2660 (2.9GHz/8-core/20MB/135W) Processor Kit 662226-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.7GHz/8-core/20MB/135W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.7GHz/8-core/20MB/135W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) Processor Kit 66224-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/15W) Processor Kit 66224-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 66224-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 66224-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 66224-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 66224-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 66224-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 66224-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Proc			/0/865-B21		
HP Processors Entry Processors NOTE: All support up to 1066MHz memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2609 (2.40GHz/4-core/10MB/80W) Processor Kit 662254-B21 HP DL380p Gen8 Intel® Xeon® E5-2603 (1.80GHz/4-core/10MB/80W) Processor Kit 662254-B21 Base Processors NOTE: All support up to 1333MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662250-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.0GHz/6-core/15MB/95W) Processor Kit 662250-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.0GHz/6-core/15MB/60W) Processor Kit 675092-B21 Performance Processors NOTE: All support up to 1600MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) Processor Kit 66226-B21 HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/130W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/8-core/20MB/115W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/8-core/20MB/115W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.0GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.0GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.0GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.0GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2663 (3.3GHz/4-core/20MB/95W) Processor Kit 66224-B21 HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/20MB/95W) Processor Kit 66224-B21 HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/0W) Processor Kit 66224-B21 HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/0W) Processor Kit 66224-B21 NOTE: Up to 2 processors supported. Performance and Energy Star Model configurations include two processors. NOTE: HT indicates that the processor model supports Intel		· · · · · · · · · · · · · · · · · · ·			
NOTE: All support up to 1066MHz memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2609 (2.40GHz/4-core/10MB/80W) Processor Kit 662252-B21 HP DL380p Gen8 Intel® Xeon® E5-2603 (1.80GHz/4-core/10MB/80W) Processor Kit 662254-B21 Base Processors NOTE: All support up to 1333MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/95W) Processor Kit 662250-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.0GHz/6-core/15MB/95W) Processor Kit 675092-B21 Performance Processors NOTE: All support up to 1600MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) Processor Kit 662228-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.7GHz/8-core/20MB/135W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/8-core/20MB/115W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/8-core/20MB/115W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/115W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/15W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/15W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/15W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/15W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0					
HP DL380p Gen8 Intel® Xeon® E5-2609 (2.40GHz/4-core/10MB/80W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2603 (1.80GHz/4-core/10MB/80W) Processor Kit 662254-B21 Base Processors NOTE: All support up to 1333MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2630 (2.0GHz/8-core/20MB/135W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2660 (2.7GHz/8-core/20MB/135W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/8-core/20MB/130W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/8-core/20MB/13W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/15W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.0GHz/8-core/20MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.0GHz/8-core/20MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2661 (2.0GHz/8-core/20MB/130W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.0GHz/8-core/20MB/130W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2663 (2.0GHz/8-core/20MB/130W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.0GHz/8-core/20MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.0GHz/8-core/20MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.0GHz/8-core/20MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.0GHz/8-core/20MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.0GHz/8-core/20MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.0GHz/8-core/20MB/95W) Processor Kit HP DL3	HP Processors	Entry Processors			
Base Processors NOTE: All support up to1333MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/95W) Processor Kit 662250-B21 HP DL380p Gen8 Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/95W) Processor Kit 662250-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.0GHz/6-core/15MB/60W) Processor Kit 662250-B21 Performance Processors NOTE: All support up to 1600MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) Processor Kit 662226-B21 HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/130W) Processor Kit 662228-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.6GHz/8-core/20MB/115W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) Processor Kit 662214-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) Processor Kit 66224-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (1.0GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (1.0GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-26637 (3.0GHz/2-core/5MB/80W) Processor Kit 66226-B21 HP DL380p Gen8 Intel® Xeon® E5-26637 (3.0GHz/2-core/5MB/80W) Processor Kit 66224-B21 NOTE: Up to 2 processors supported. Performance and Energy Star Model configurations 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		NOTE: All support up to 1066MHz memory speeds.			
Base Processors NOTE: All support up to1333MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/95W) Processor Kit 662250-B21 HP DL380p Gen8 Intel® Xeon® E5-2630L (2.0GHz/6-core/15MB/95W) Processor Kit 675092-B21 Performance Processors NOTE: All support up to 1600MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) Processor Kit 662226-B21 HP DL380p Gen8 Intel® Xeon® E5-2680 (2.7GHz/8-core/20MB/135W) Processor Kit 662228-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.7GHz/8-core/20MB/130W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/8-core/20MB/15W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/15W) Processor Kit 662214-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) Processor Kit 662242-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2653 (3.3GHz/4-core/20MB/95W) Processor Kit 66226-B21 HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit 66226-B21 HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit 66224-B21 NOTE: Up to 2 processors supported. Performance and Energy Star Model configurations 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		HP DL380p Gen8 Intel® Xeon® E5-2609 (2.40GHz/4-core/10MB/80W) Processor Kit	662252-B21		
NOTE: All support up to 1333MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/95W) Processor Kit 662250-B21 HP DL380p Gen8 Intel® Xeon® E5-2630L (2.0GHz/6-core/15MB/60W) Processor Kit 675092-B21 Performance Processors NOTE: All support up to 1600MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) Processor Kit 662226-B21 HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) Processor Kit 662228-B21 HP DL380p Gen8 Intel® Xeon® E5-2667 (2.6GHz/8-core/20MB/115W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/8-core/20MB/115W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/15W) Processor Kit 66620-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (1.6GHz/8-core/20MB/70W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (1.6GHz/8-core/20MB/70W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (1.6GHz/8-core/20MB/70W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2630 (1.6GHz/8-core/20MB/70W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2631 (3.0GHz/2-core/5MB/80W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E		HP DL380p Gen8 Intel® Xeon® E5-2603 (1.80GHz/4-core/10MB/80W) Processor Kit	662254-B21		
HP DL380p Gen8 Intel® Xeon® E5-2640 (2.5GHz/6-core/15MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2630 (2.3GHz/6-core/15MB/95W) Processor Kit 662248-B21 HP DL380p Gen8 Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/95W) Processor Kit 662250-B21 HP DL380p Gen8 Intel® Xeon® E5-2630L (2.0GHz/6-core/15MB/95W) Processor Kit 675092-B21 Performance Processors NOTE: All support up to 1600MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) Processor Kit 662226-B21 HP DL380p Gen8 Intel® Xeon® E5-2680 (2.7GHz/8-core/20MB/135W) Processor Kit 662228-B21 HP DL380p Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/130W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/6-core/15MB/130W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.4GHz/8-core/20MB/15W) Processor Kit 662241-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.2GHz/8-core/20MB/95W) Processor Kit 662242-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (1.8GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (1.3GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/10MB/130W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit 662244-B21 NOTE: Up to 2 processors supported. Performance and Energy Star Model configurations 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		Base Processors			
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Performance Processors NOTE: All support up to 1600MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) Processor Kit 662226-B21 HP DL380p Gen8 Intel® Xeon® E5-2680 (2.7GHz/8-core/20MB/130W) Processor Kit 662228-B21 HP DL380p Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/115W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/6-core/15MB/130W) Processor Kit 662214-B21 HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) Processor Kit 662214-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) Processor Kit 662242-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (1.8GHz/8-core/20MB/70W) Processor Kit 662246-B21 HP DL380p Gen8 Intel® Xeon® E5-2643 (3.3GHz/4-core/10MB/130W) Processor Kit 662216-B21 HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit 66224-B21 NOTE: Up to 2 processors supported. Performance and Energy Star Model configurations 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		HP DL380p Gen8 Intel® Xeon® E5-2620 (2.0GHz/6-core/15MB/95W) Processor Kit	662250-B21		
NOTE: All support up to 1600MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) Processor Kit 662226-B21 HP DL380p Gen8 Intel® Xeon® E5-2680 (2.7GHz/8-core/20MB/130W) Processor Kit 662228-B21 HP DL380p Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/115W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/6-core/15MB/130W) Processor Kit 662214-B21 HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) Processor Kit 666509-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) Processor Kit 662242-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (1.8GHz/8-core/20MB/70W) Processor Kit 662264-B21 HP DL380p Gen8 Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/70W) Processor Kit 66226-B21 HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit 66224-B21 NOTE: Up to 2 processors supported. Performance and Energy Star Model configurations 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		HP DL380p Gen8 Intel® Xeon® E5-2630L (2.0GHz/6-core/15MB/60W) Processor Kit	675092-B21		
HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2680 (2.7GHz/8-core/20MB/130W) Processor Kit 66228-B21 HP DL380p Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/115W) Processor Kit 662240-B21 HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/6-core/15MB/130W) Processor Kit 662214-B21 HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) Processor Kit 66529-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) Processor Kit 662242-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (1.8GHz/8-core/20MB/70W) Processor Kit 66226-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (1.8GHz/8-core/10MB/130W) Processor Kit 662216-B21 HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit 66224-B21 NOTE: Up to 2 processors supported. Performance and Energy Star Model configurations 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		Performance Processors			
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HP DL380p Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/115W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/6-core/15MB/130W) Processor Kit 662214-B21 HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) Processor Kit 666509-B21 HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) Processor Kit 662242-B21 HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit 662244-B21 HP DL380p Gen8 Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/70W) Processor Kit 662256-B21 HP DL380p Gen8 Intel® Xeon® E5-2643 (3.3GHz/4-core/10MB/130W) Processor Kit 662216-B21 HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit 662224-B21 NOTE: Up to 2 processors supported. Performance and Energy Star Model configurations 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		HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) Processor Kit	662226-B21		
HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/6-core/15MB/130W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/70W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2643 (3.3GHz/4-core/10MB/130W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit HO DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit NOTE: Up to 2 processors supported. Performance and Energy Star Model configurations 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		HP DL380p Gen8 Intel® Xeon® E5-2680 (2.7GHz/8-core/20MB/130W) Processor Kit	662228-B21		
HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/70W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2643 (3.3GHz/4-core/10MB/130W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit NOTE: Up to 2 processors supported. Performance and Energy Star Model configurations 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		HP DL380p Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/115W) Processor Kit	662240-B21		
HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/70W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/70W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2643 (3.3GHz/4-core/10MB/130W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit HOTE: Up to 2 processors supported. Performance and Energy Star Model configurations 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		HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/6-core/15MB/130W) Processor Kit	662214-B21		
HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/70W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2643 (3.3GHz/4-core/10MB/130W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2643 (3.0GHz/2-core/5MB/80W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit NOTE: Up to 2 processors supported. Performance and Energy Star Model configurations 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		HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) Processor Kit	666509-B21		
HP DL380p Gen8 Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/70W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2643 (3.3GHz/4-core/10MB/130W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit NOTE: Up to 2 processors supported. Performance and Energy Star Model configurations 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		HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) Processor Kit	662242-B21		
HP DL380p Gen8 Intel® Xeon® E5-2643 (3.3GHz/4-core/10MB/130W) Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit 662224-B21 NOTE: Up to 2 processors supported. Performance and Energy Star Model configurations 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		HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) Processor Kit	662244-B21		
HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit NOTE: Up to 2 processors supported. Performance and Energy Star Model configurations 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		HP DL380p Gen8 Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/70W) Processor Kit	662256-B21		
NOTE: Up to 2 processors supported. Performance and Energy Star Model configurations 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		HP DL380p Gen8 Intel® Xeon® E5-2643 (3.3GHz/4-core/10MB/130W) Processor Kit	662216-B21		
configurations 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		HP DL380p Gen8 Intel® Xeon® E5-2637 (3.0GHz/2-core/5MB/80W) Processor Kit	662224-B21		
configurations 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		NOTE: Up to 2 processors supported. Performance and Energy Star Model			
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					
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					
when you need it with performance that adapts to spikes in your workload and delivers					



Core Options

NOTE: DDR3 speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of DIMMs installed.

HP Memory

NOTE: HP memory from previous generation servers are 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 Gen8. For additional information, please see the HP SmartMemory QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/14225_div/14225_div.html **NOTE:** LRDIMM, RDIMM, UDIMM, and HDIMMs are all distinct memory technologies and cannot be mixed within a server. The majority of ProLiant Gen8 servers support LRDIMM, RDIMM and UDIMMs.

Registered DIMMs (RDIMMs)

Registered Diffilis (RDIffilis)	
HP 4GB (1x4GB) Single Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647893-B21
HP 4GB (1x4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647895-B21
HP 8GB (1x8GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647897-B21
HP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647899-B21
HP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	690802-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647901-B21
HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	672631-B21
Unbuffered with ECC DIMMs (UDIMMs)	
HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669320-B21

HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669320-B21
HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647905-B21
HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669322-B21
HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647907-B21
HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669324-B21
HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low	647909-B21

Load Reduced DIMMs (LRDIMMs)

Voltage Memory Kit

HP 32GB (1x32GB) Quad Rank x4 PC3L-10600L (DDR3-1333) Load Reduced CAS-9 Low Voltage Memory Kit

NOTE: All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: www.hp.com/go/ddr3memory-configurator.

NOTE: Kits described as LP include Low Power DIMMs. For more information on ProLiant



647903-B21

Core Options

Energy Efficient Features, see: www.hp.com/go/proliant-energy-efficient **NOTE:** PC3L is a low voltage memory.

HP Optical Drives	HP 12.7mm Slim SATA DVD-ROM JackBlack Optical Drive	652232-B21
	HP 12.7mm Slim SATA DVD-RW JackBlack Optical Drive	652235-B21

HP Hard Drives

NOTE: The HP ProLiant DL380p Gen8 Smart Storage solutions are equipped with entirely re-designed Small Form Factor (SFF 2.5 in) and Large Form Factor (LFF 3.5 in) hot plug carriers for HP Qualified Hard Drives and Solid State Drives. These new carriers provide status and activity indicators as well as caution indicators for "Do Not Remove". **NOTE:** The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

NOTE: Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

SAS Hot Plug with SmartDrive SFF (2.5-inch) Enterprise Drives

HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	697574-B21
HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652589-B21
HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652583-B21
HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652572-B21
HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652564-B21
HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652611-B21
HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652605-B21
SAS Hot Plug SmartDrive SFF (2.5-inch) Midline Drives	
HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652749-B21
HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652745-B21
SAS Hot Plug SmartDrive LFF (3.5-inch) Enterprise Drives	
HP 600GB 6G SAS 15K rpm LFF (3.5-inch) SC Enterprise 3yr Warranty Hard Drive	652620-B21
HP 450GB 6G SAS 15K rpm LFF (3.5-inch) SC Enterprise 3yr Warranty Hard Drive	652615-B21
SAS Hot Plug SmartDrive LFF (3.5-inch) Midline Drives	
HP 4TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	695510-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
NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
http://h18000.www1.hp.com/products/quickspecs/12244_div/12244_div.html (Worldwide)	



HP 500GB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive

6G SATA Hot Plug with SmartDrive SFF (2.5-inch) Midline (MDL) DrivesHP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive

655710-B21

655708-B21

Core Options

6G SATA Hot Plug with SmartDrive LFF (3.5-inch) Midline (MDL) Drives	
HP 4TB 6G SATA 7.2k rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	693687-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
NOTE: Please see the QuickSpecs for Technical Specifications and additional	
information: http://h18000.www1.hp.com/products/quickspecs/13021_div/13021_div.html (Worldwide)	
6G SATA ME 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 ME Hot Plug SFF (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 SAS ME Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
HP 800GB 6G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	690829-B21
HP 400GB 6G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	690827-B21
HP 200GB 6G SAS Mainstream Endurance SFF 2.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	690825-B21
6G SAS SLC Hot Plug SFF (2.5-inch) Enterprise Performance Solid State Drives	
HP 400GB 6G SAS SLC SFF (2.5-inch) SC Enterprise Performance 3yr Warranty Solid State Drive	653082-B21
HP 200GB 6G SAS SLC SFF (2.5-inch) SC Enterprise Performance 3yr Warranty Solid State Drive	653078-B21
3G SATA MLC Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives	
HP 400GB 3G SATA MLC SFF (2.5-inch) SC Enterprise Mainstream 3yr Warranty Solid State Drive	653120-B21



Core Options

HP 200GB 3G SATA MLC SFF (2.5-inch) SC Enterprise Mainstream 3yr Warranty Solid State Drive	653118-B21
HP 100GB 3G SATA MLC SFF (2.5-inch) SC Enterprise Mainstream 3yr Warranty Solid State Drive	653112-B21
3G SATA MLC Hot Plug LFF (3.5-inch) Enterprise Mainstream Solid State Drives	
HP 400GB 3G SATA MLC LFF (3.5-inch) SC Enterprise Mainstream 3yr Warranty Solid State Drive	653126-B2 ²
HP 200GB 3G SATA MLC LFF (3.5-inch) SC Enterprise Mainstream 3yr Warranty Solid State Drive	653124-B2
HP 100GB 3G SATA MLC LFF (3.5-inch) SC Enterprise Mainstream 3yr Warranty Solid State Drive	653122-B21
NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
http://h18000.www1.hp.com/products/quickspecs/14038_div/14038_div.html (Worldwide)	
Hard Drive Kits	
NOTE: All Factory Integrated Models will be populated with sufficient hard drive blanks	

based on the number of initial hard drives ordered with the server.

NOTE: The part numbers for single HDD blanks below are provided should the customer require replacement HDD blanks for their server.

HP SFF Gen8 Hard Drive Blank Kit	666987-B21
HP LFF Gen8 Hard Drive Blank Kit	666986-B21
HP DL380/DL385 Gen8 8 Small Form Factor Hard Drive Backplane Cage Kit	662883-B21

NOTE: With upgrade of 8SFF Cage/Bkpln (662883-B21), there is no Optical Drive

NOTE: All cables necessary for proper installation of the 8SFF Cage are included with

NOTE: With upgrade of 8SFF Cage/Bkpln (662883-B21), an additional storage controller is required. HP recommends the HP Smart Array P420/1GB FBWC 6Gb 2-ports Int SAS Controller (P/N 631670-B21).

NOTE: The P822 controller has only two internal ports like the P420 controller and cannot be used to attach both 8SFF drive cages through a single controller. Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/14341_div/14341_div.html

NOTE: In Gen8, the 8+8SFF solution is designed as a performance configuration delivering maximum IOPS across the two drive cages. Customers seeking to have all drives in a single volume should consider the DL380p Gen8 25 SFF Configure-to-order Server (P/N 665554-B21) as a base.

Hard Drive Cables

HP DL38x/DL360 Gen8 Embedded SATA Cable Kit

664009-B21



Core Options

HP Networking	Gigabit Ethernet adapters	
	HP NC112T PCI Express Gigabit Server Adapter	503746-B21
	HP NC365T 4-port Ethernet Server Adapter	593722-B21
	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
	10 Gigabit Ethernet Adapters	
	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/go/ProLiantNICs.	
	HP NC523SFP 10Gb 2-port Server Adapter	593717-B21
	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 NC552SFP 10Gb 2-port Ethernet Server Adapter	614203-B21
	HP 10 GbE PCI-e G2 Dual Port Network Interface Card	516937-B21
	FlexibleLOM Adapters	
	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/go/ProLiantNICs.	
	HP Ethernet 1Gb 4-port 331FLR Adapter	629135-B21
	HP Ethernet 1Gb 4-port 366FLR Adapter	665240-B21
	HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter	647581-B21
	HP FlexFabric 10Gb 2-port 554FLR-SFP+ Adapter	629142-B21
	HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional	



information: www.hp.com/go/ProLiantNICs

Core Options

Core Options				
HP InfiniBand	QLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA HP InfiniBand 4X QDR ConnectX-2 PCIe G2 Dual Port HCA			
HP InfiniBand FDR/EN 10/40Gb Dual Port 544QSFP Adapter		649281-B21		
	NOTE: For the following two InfiniBand Adapters, only 1 FlexibleLOM can be added to the server, which is selected in Step 2 for the "Configuration Information - Factory Integrated Models" section. These two options are for upgrade or change from original configuration. NOTE: FLR Indicates new HP FlexibleLOM Adapter series.			
	HP InfiniBand FDR/EN 10/40Gb Dual Port 544FLR-QSFP Adapter	649282-B21		
	HP InfiniBand QDR/EN 10Gb Dual Port 544FLR-QSFP Adapter	649283-B21		
	NOTE: 10Gb Ethernet requires the use of the QSFP to SFP+ adapter P/N 655874-B21. NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/13078_div/13078_div.html			
HP I/O Expansion Options	HP DL380p/560 Gen8 3 Slot PCI-E Riser Kit	653206-B21		
	HP DL380p/560 Gen8 2 Slot 2x16 PCI-E Riser Kit	653208-B21		
	HP DL380p Gen8 Double Wide Riser Cage Kit NOTE: Kit is required to support a nVidia Q6000 double wide graphics card. NOTE: Kit contains a power cable for the nVidia Q6000 double wide graphics card. NOTE: The double wide riser cage kit is not supported in the 12LFF and 25SFF Configure-to-order Servers.	662885-B21		
	HP DL380p Gen8 NEBS Conversion Cage Kit NOTE: This conversion kit is only available for the 8SFF base server model. NOTE: A NEBS conversion cage kit is required for each riser in an 8SFF base server for the server to meet NEBS and ETSI certification.	707865-B21		
HP Power Supplies	NOTE: Mixing of power supplies in the same server is not supported. All power supplies must be of the same output and efficiency rating. If non-matched power supplies are inserted, you will get errors, and operation will fail. NOTE: Prior to making a power supply selection it is highly recommended that the HP Power Advisor is run to determine the right size power supply for your server configuration. The HP Power Advisor is located at: www.hp.com/go/hppoweradvisor.			
	HP Common Slot Platinum Plus Power Supply Kits NOTE: The following Power Supplies offer 94% Efficiency with support for Intelligent Power Discovery.*			
	HP 460W Common Slot Platinum Plus Hot Plug Power Supply Kit	656362-B21		
	HP 750W Common Slot Platinum Plus Hot Plug Power Supply Kit	656363-B21		
	HP 1200W Common Slot Platinum Plus Hot Plug Power Supply Kit	656364-B21		
	HP Common Slot Gold Power Supplies			
	NOTE: The following Power Supplies offer 92% Efficiency.			
	HP 460W Common Slot Gold Hot Plug Power Supply Kit	503296-B21		
	HP 750W Common Slot Gold Hot Plug Power Supply Kit	512327-B21		
	HP Common Slot -48VDC Power Supplies NOTE: The following Power Supplies offer 92% Efficiency.			



Core Options

HP 750W Common Slot -48VDC Hot Plug Power Supply Kit NOTE: The 750W Common Slot -48VDC Hot Plug Power Supply Kit does not include a power cord. It has been designed with a terminal block connection that allows for custom design of power cords by the end user. To select an alternative power cord for your server, please review the HP Common Slot Power Supplies QuickSpecs.	636673-B21
HP 1200W Common Slot 277VAC Hot Plug Power Supply Kit NOTE: The 1200W Common Slot 277VAC Hot Plug Power Supply Kit does not include a power cord.	717359-B21
HP 1200W Common Slot 380VDC Hot Plug Power Supply Kit	684539-B21
NOTE: Option Kits contain optional power supply, an IEC power cable and PDU IEC cables.	
NOTE: HP ProLiant servers ship with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). For a full list of optional HP power cords please go to www.hp.com/products/powercords	
NOTE: Power Specification and Technical Content for supported power supplies can be found at: http://h18000.www1.hp.com/products/quickspecs/14209_div/14209_div.html	

HP Graphic Options

HP 150W PCI-E Power Cable Kit	669777-B21
HP 225W PCIe Power Cable Kit	728539-B21
NVIDIA Quadro 4000 2GB PCI-E Adapter	655933-B21
NOTE: The DL380p Gen8 can support up to two Quadro 4000 cards. One card in each	
x16 slot in riser 1 and riser 2. Riser 2 function requires a second processor.	
NOTE: Each Quadro 4000 card requires a 150W PCI-E Power Cable Kit (P/N 669777-	
B21).	
NOTE: The Quadro 4000 option kit is not supported in the 12LFF and 25SFF Configure-	

NOTE: The Quadro 4000 option kit is not supported in the 12LFF and 25SFF Configure to-order Servers.

NVIDIA Quadro 6000 6GB PCI-E Adapter

NOTE: The DL380p Gen8 can support one Quadro 6000 card in a x16 slot in riser 2. Riser

2 function requires a second processor. **NOTE:** Installation of the Quadro 6000 requires selection of the HP DL380p Gen8

Double Wide Graphics Riser Cage Kit (P/N 662885-B21). This riser kit includes a power

NOTE: The Quadro 6000 option kit is not supported in the 12LFF and 25SFF Configure-to-order Servers.

cable along with the riser.



655935-B21

Additional Options

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.

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HP Insight Control

HP Insight Control including 1yr 24x7 Technical Support and Updates Single Server License	C6N27A
HP Insight Control including 1yr 24x7 Technical Support and Updates Electronic License	C6N28AAE
HP Insight Control Server Provisioning Media Kit	BD883A
HP Insight Management Media Kit	C6N31A
HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Electronic	C6N36AAE

HP Insight Control Server Deployment including 1yr 24x7 Support Electronic License HP Insight Control Server Deployment including 1yr 24x7 Support Single Server License

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_div/12631_div.html

HP Integrated Lights-Out (iLO) Advanced for ProLiant

HP iLO Advanced including 1yr 24x7 Technical Support and Updates Electronic License	TA850AAE
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	512485-B21
License	

HP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and Updates

NOTE: For additional license options please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/14276_div/14276_div.html

NOTE: For more information, visit: http://www.hp.com/go/ilo



T9082AAE

BD505A

452151-B21

Additional Options

High Performance
Clusters

HP Cluster Management Utility

HP Insight Cluster Management Utility 1yr 24x7 Flexible License

QL803B

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_div/12612_div.html

HP HPC Linux Value Pack

HP High Performance Computing Linux Value Pack 1 Processor Flexible License for ProLiant Servers

TC293B

NOTE: This part number can be used to purchase one certificate for multiple licenses with a single activation key. Each license is for one socket (a.k.a. processor). 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.

HP High Performance Computing Linux Value Pack Media Kit for ProLiant Servers **NOTE:** This part number can be used to purchase media including software and documentation, which will be delivered to the customer.

TC294A

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

http://h18004.www1.hp.com/products/quickspecs/13485_div/13485_div.html

HP I/O Accelerator Options

Second Generation Accelerators

HP 365GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers	673642-B21
HP 785GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers	673644-B21
HP 1205GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers	673646-B21
HP 2410GB Multi Level Cell G2 PCIe ioDrive2 Duo for ProLiant Servers	673648-B21
HP 3TB G2 FH/HL PCIe ioDrive2 IO Accelerator for ProLiant Servers	721458-B21

First Generation Accelerators

HP 160GB Single Level Cell PCIe ioDrive for ProLiant Servers

NOTE: A low-profile PCI bracket is included for use in low-profile slots.

HP 320GB Single Level Cell PCIe ioDrive Duo for ProLiant Servers

NOTE: Please see the QuickSpecs for Technical Specifications and additional

600281-B21

information:

http://h18000.www1.hp.com/products/quickspecs/13587_div/13587_div.html

(Worldwide)

HP PCIe Workload Accelerator Options

HP 350GB HH/HL PCIe Workload Accelerator for ProLiant Servers 708088-B21
HP 700GB HH/HL PCIe Workload Accelerator for ProLiant Servers 708090-B21



Additional Options

NOTE: Please see the QuickSpecs for Technical Specifications and additional

information:

http://h18000.www1.hp.com/products/quickspecs/14528_div/14528_div.html (Worldwide)

HP Security

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 2U Security Bezel Kit

666988-B21

631667-B21

HP Storage Controllers

SAS Controllers

Smart Array P222 Controller

NOTE: P222 requires (1) HP Mini SAS Straight to Straight 37in Cable Assembly (P/N 662897-B21)

HP Smart Array P222/512 FBWC 6Gb 1-port Int/1-port Ext SAS Controller

Smart Array P420 Controller

NOTE: P420 requires (2) HP Mini SAS Straight to Straight 37in Cable Assemblies (P/N

662897-B21)

HP Smart Array P420/1GB FBWC 6Gb 2-ports Int SAS Controller 631670-B21
HP Smart Array P420/2GB FBWC 6Gb 2-ports Int SAS Controller 631671-B21

Smart Array P421 Controller

HP Smart Array P421/1GB FBWC 6Gb 2-ports Ext SAS Controller 631673-B21
HP Smart Array P421/2GB FBWC 6Gb 2-ports Ext SAS Controller 631674-B21

Smart Array P822 Controller

HP Smart Array P822/2GB FBWC 2-ports Int/4-ports Ext SAS Controller

615418-B21

NOTE: The P822 controller has only two internal ports like the P420 controller and cannot be used to attach both 8SFF drive cages through a single controller. Please see the QuickSpecs link below for Technical Specifications and additional information.

Optional Upgrades

HP 1GB P-series Smart Array Flash Backed Write Cache	631679-B21
HP 2GB P-series Smart Array Flash Backed Write Cache	631681-B21
HP 512MB P-series Smart Array Flash Backed Write Cache	661069-B21
HP Smart Array Advanced Pack 2.0 No Media 1 Server 1yr 24x7 Support Software	BC377A



HP ProLiant DL380p Generation8 (Gen8)

QuickSpecs

Additional Options

HP Smart Array Advanced Pack 2.0 No Media Electronic Lic 1yr 24x7 Support Software BC390AAE **HP Cable Options** HP Mini SAS Straight to Straight 37in Cable Assembly 662897-B21 **NOTE:** Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/14227_div/14227_div.html (Smart Array P222 Controller) http://h18000.www1.hp.com/products/quickspecs/14228_div/14228_div.html (Smart Array P420 Controller) http://h18000.www1.hp.com/products/quickspecs/14229_div/14229_div.html (Smart Array P421 Controller) http://h18000.www1.hp.com/products/quickspecs/14341_div/14341_div.html (Smart Array P822 Controller) http://h18000.www1.hp.com/products/quickspecs/13200 div/13200 div.html (Smart Array Advanced Pack) **Host Bus Adapter HP H220 Host Bus Adapter** 650933-B21 HP H221 Host Bus Adapter 650931-B21 **HP H222 Host Bus Adapter** 650926-B21 **NOTE:** Please see the QuickSpecs for Technical Specifications and additional information: http://h18004.www1.hp.com/products/quickspecs/14336_div/14336_div.html (HBA 220) http://h18004.www1.hp.com/products/quickspecs/14222_div/14222_div.html (HBA 221) http://h18004.www1.hp.com/products/quickspecs/14337 div/14337 div.html (HBA 222) **SCSI HBA** HP SC11Xe Ultra320 Single Channel/ PCIe x4 SCSI Host Bus Adapter 412911-B21 NOTE: Please see the following QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/12566_div/12566_div.html



(SC11Xe HBA)

Additional Options

Additional Option				
HP Power Cords	NOTE: HP ProLiant servers ships with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs).			
	HP C13 - SEV 1011 CH 250V 10Amp 1.83m Power Cord	AF565A		
	HP C13 - DK-2.5A DK 250V 10Amp 1.83m Power Cord	AF566A		
	HP C13 - CEE-VII EU 250V 10Amp 1.83m Power Cord	AF568A		
	HP C13 - BS-1363A UK/HK/SG 250V 10Amp 1.83m Power Cord	AF570A		
	HP C13 - CEI-23-50 IT/CL 250V 10Amp 1.83m Power Cord	AF571A		
	HP C13 - SABS-164 ZA 250V 10Amp 2.5m Power Cord	AF567A		
	HP C13 - Nema 6-15P US 250V 15A JP 3.6m Power Cord	A0N33A		
	HP C13 - Nema 5-15P US/CA 110V 10Amp 1.83m Power Cord	AF556A		
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			
	HP StoreEver LTO-6 Ultrium 6250 Tape Drive in 1U Rack-mount Kit	COL99A		
	HP StoreEver LTO-6 Ultrium 6650 Internal Tape Drive	EH963A		
	HP StoreEver LTO-6 Ultrium 6650 External Tape Drive	EH964A		
	HP StoreEver LTO-6 Ultrium 6250 Internal Tape Drive	EH969A		
	HP StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970A		
HP Disk Backup	NOTE: For the complete range of RDX drives and media see: http://www.hp.com/go/rdx. For hardware and software compatibility of HP disk backup products see: http://www.hp.com/storage/SPOCK.			
	HP RDX Removable Disk Backup System			
	HP RDX320 USB3.0 External Disk Backup System	B7B63A		
	HP RDX500 USB3.0 Internal Disk Backup System	B7B64A		
	HP RDX500 USB3.0 External Disk Backup System	B7B66A		
	HP RDX1000 USB3.0 Internal Disk Backup System	B7B67A		
	HP RDX1000 USB3.0 External Disk Backup System	B7B69A		
	NOTE: Please see the QuickSpecs for additional part numbers, Technical Specifications, and additional information:	5750371		
	http://h18000.www1.hp.com/products/quickspecs/13036_div/13036_div.html			



(Worldwide)

Additional Options		
HP Storage Options	Storage Fibre Channel HBA	
	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	
	Brocade Fibre Channel HBAs	
	HP 81B 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AP769B
	HP 82B 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AP770B
	Emulex Fibre Channel HBAs	
	HP 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AJ762B
	HP 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ763B
	HP SN1000E 16Gb 1-port PCIe Fibre Channel Host Bus Adapter	QR558A
	HP SN1000E 16Gb 2-port PCIe Fibre Channel Host Bus Adapter	QR559A
	QLogic Fibre Channel HBAs	
	HP 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter	AK344A
	HP 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter	AJ764A
	HP StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter	QW971A
	HP StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter	QW972A
	Converged Network Adapter	
	HP CN1100E Dual Port Converged Network Adapter	BK835A
	HP CN1000Q Dual Port Converged Network Adapter	BS668A
HP Uninterruptible Power	HP Rack-mountable UPS	
Systems	HP R1500 G3 Uninterruptible Power Supply (UPS)	
	HP R1.5kVA G3 1U NA Uninterruptible Power System	AF469A
	HP R1.5kVA G3 1U JP/TW Uninterruptible Power System	AF470A
	HP R1.5kVA G3 1U INTL Uninterruptible Power System	AF471A
	HP R/T3000 G2 2U L530 Low Voltage NA/JP Uninterruptible Power System	AF466A
	NOTE: Please see the QuickSpecs for additional information:	
	http://h18000.www1.hp.com/products/quickspecs/14059_div/14059_div.html (Worldwide)	
	HP R/T3000 G2 Uninterruptible Power System (UPS)	
	HP R/T3000 G2 2U L620 High Voltage NA/JP Uninterruptible Power System	AF467A
	HP R/T3000 G2 2U Detachable Cord High Voltage INTL Uninterruptible Power System	AF468A
	NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14058_div/14058_div.html (Worldwide)	
	R5000 Uninterruptible Power System (UPS)	
	HP R5KVA 3U IEC309-32A High Voltage INTL Uninterruptible Power System	AF461A
	HP R5KVA 3U L630 High Voltage NA/JP Uninterruptible Power System NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14109_div/14109_div.html	AF460A
	(Worldwide)	



Additional Options

R7000 Uninterruptible Power System (UPS)

HP R7KVA 4U 50A High Voltage NA/JP Uninterruptible Power System HP R7KVA 4U IEC-32A High Voltage INTL Uninterruptible Power System

AF462A AF463A

NOTE: Please see the QuickSpecs for additional information:

http://h18000.www1.hp.com/products/quickspecs/14110_div/14110_div.html (Worldwide)

NOTE: For additional information on HP Uninterruptible Power Systems please go to: www.hp.com/servers/rackups.

NOTE: For additional information on sizing your server, please reference: http://www.upssizer.com.

NOTE: Please see the UPS and PDU cable matrix's on the HP Power Protection and Management page. Under Power Cords, click on the "HP Power Cord Matrix" link. That link will list cable descriptions, requirements, and specifications for UPS and PDU units. Please see the following link: www.hp.com/products/powercords.

HP Power Distribution Units

Monitored PDUs

HP Monitored Power Distribution Unit: Full Rack Version

HP 8.6kVA 24A Single Input Three Phase NA/JP Monitored Power Distribution Unit	AF504A
HP 8.3kVA 40A Single Input Single Phase NA/JP Monitored Power Distribution Unit	AF506A
HP 11kVA 16A Single Input Three Phase INTL Monitored Power Distribution Unit	AF508A
HP 7.3kVA 32A Single Input Single Phase INTL Monitored Power Distribution Unit	AF510A

HP Monitored Power Distribution Unit: Half Rack Version

HP 4.9kVA 24A Single Input Single Phase NA/JP Monitored Power Distribution Unit

AF914A
HP 7.3kVA 32A Single Input Single Phase INTL Monitored Power Distribution Unit

AF915A

NOTE: Please see the QuickSpecs for Technical Specifications and additional information:

http://h18000.www1.hp.com/products/quickspecs/12118_div/12118_div.html

Modular PDUs 1U/0U

NOTE: 1U/OU mounting brackets shipped with the unit (optimized for 10000 G2 and 9000 series racks).

HP 2.8kVA 24A Low Voltage NA/JP Modular Power Distribution Unit	252663-D/1
HP 3.6kVA 16A High Voltage INTL Modular Power Distribution Unit	252663-B24
HP 4.9kVA 24A High Voltage NA/JP Modular Power Distribution Unit	252663-D72
HP 7.3kVA 32A High Voltage INTL Modular Power Distribution Unit	252663-B31

NOTE: Additional HP Power Distribution Units are available. For a complete list of all HP PDUs and additional information please visit www.hp.com/go/rackandpower.

NOTE: Please see the UPS and PDU cable matrix's on the HP Power Protection and Management page. Under Power Cords, click on the "HP Power Cord Matrix" link. That link will list cable descriptions, requirements, and specifications for UPS and PDU units. Please see the following link: www.hp.com/products/powercords.

NOTE: This PDU has a detachable input power cord and allows for adaptability to country specific power requirements.

NOTE: Please see the following QuickSpecs for additional options including shorter jumper cables and country specific power cords:

Additional Options

http://h18000.www1.hp.com/products/quickspecs/11041_div/11041_div.html (Worldwide)

HP	Intellig	ent Po	ower	
Dis	tributio	n Unit	ts (iPDU))

iPDU Core Units

HP 4.9kVA 24A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF520A
HP 8.6kVA 24A Three Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF522A
HP 7.3kVA 32A Single Phase INTL Core Intelligent Modular Power Distribution Unit	AF525A
HP 11kVA 16A Three Phase INTL Core Intelligent Modular Power Distribution Unit	AF526A

iPDU Extension Bars

HP 5xC13 Intelligent PDU Extension Bar G2 Kit

HP 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar

AF528A

NOTE: Please see the QuickSpecs for Technical Specifications and additional information:

http://h18000.www1.hp.com/products/quickspecs/13650_div/13650_div.html (Worldwide)

NOTE: Additional HP Power Distribution Units are available. For a complete list of all HP PDUs and additional information please visit www.hp.com/go/rackandpower.

HP Basic Power Distribution Units

HP 2.8kVA 120 Volt 18 Outlet NA/JP Basic Power Distribution Unit	H5M55A
HP 3.6kVA 200-240 Volt 12 Outlet WW Basic Power Distribution Unit	H5M56A
HP 3.6kVA 200-240 Volt 20 Outlet WW Basic Power Distribution Unit	H5M57A
HP 4.9kVA 208 Volt 20 Outlet NA/JP Basic Power Distribution Unit	H5M58A
HP 4.9kVA 208 Volt 30 Outlet NA/JP Basic Power Distribution Unit	H5M59A
HP 8.3kVA 208 Volt 36 Outlet NA/JP Basic Power Distribution Unit	H5M60A
HP 8.6kVA 208 Volt Three Phase 18 Outlet NA/JP Basic Power Distribution Unit	H5M61A
HP 8.6kVA 208 Volt Three Phase 30 Outlet NA/JP Basic Power Distribution Unit	H5M62A
HP 5.7kVA 208 Volt Three Phase 27 Outlet NA/JP Dual Voltage Basic Power Distribution Unit	H5M63A
HP 8.6kVA 208 Volt Three Phase 30 Outlet NA/JP Dual Voltage Basic Power Distribution Unit	H5M64A
HP 11kVA 400 Volt Three Phase 42 Outlet NA Basic Power Distribution Unit	H5M67A
HP 7.3kVA 230 Volt 20 Outlet INTL Basic Power Distribution Unit	H5M68A
HP 7.3kVA 230 Volt 30 Outlet INTL Basic Power Distribution Unit	H5M70A
HP 11kVA 230 Volt 36 Outlet INTL Basic Power Distribution Unit	H5M71A
HP 11kVA 400 Volt Three Phase 30 Outlet INTL Basic Power Distribution Unit	H5M72A
HP 11kVA 400 Volt Three Phase 42 Outlet INTL Basic Power Distribution Unit	H5M73A
HP Hardwired 200-240 Volt 36 Outlet WW Basic Power Distribution Unit	H5M75A
HP 13.2kVA 480 Volt Three Phase 15 Outlet NA Basic Power Distribution Unit	H3X07A
HP 19.9kVA 480 Volt Three Phase 30 Outlet NA Basic Power Distribution Unit	H3X08A
HP 277 Volt options for H3X07A and H3X08A	
HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09A



Additional Options

NOTE: Please see the QuickSpecs for Technical Specifications and additional

information:

http://h18000.www1.hp.com/products/quickspecs/14557_div/14557_div.html (Worldwide)

NOTE: Additional HP Power Distribution Units are available. For a complete list of all HP

PDUs and additional information please visit www.hp.com/go/rackandpower.

HP Rack Series HP Intelligent Series Rack

HP 636 1075mm Pallet Intelligent Series Rack	BW895A
HP 636 1075mm Shock Intelligent Series Rack	BW896A
HP 642 1075mm Pallet Intelligent Series Rack	BW903A
HP 642 1075mm Shock Intelligent Series Rack	BW904A
HP 647 1075mm Pallet Intelligent Series Rack	BW911A
HP 647 1075mm Shock Intelligent Series Rack	BW912A

NOTE: Please see the QuickSpecs for Technical Specifications such as height, width, depth, weight, and color:

http://h18000.www1.hp.com/products/quickspecs/14223_div/14223_div.html (Worldwide)

NOTE: For additional information regarding Rack Cabinets, please see the following URL: http://www.hp.com/go/rackandpower.

HP Rack Options HP Location Discovery Services

HP 36U Location Discovery Kit	BW945A
HP 42U Location Discovery Kit	BW946A
HP 47U Location Discovery Kit	BW947A

NOTE: Please see the QuickSpecs for Technical Specifications and additional information:

http://h18000.www1.hp.com/products/quickspecs/14429_div/14429_div.html (Worldwide)

HP TFT7600 G2 KVM Console and Monitor (TFT7600 G2)

UD TETTEGO CO MUNICIPILIDADO DE LA COMPANIONA DEL COMPANIONA DE LA COMPANIONA DE LA COMPANIONA DELA COMPANIO

HP TFT7600 G2 KVM Console Rackmount Keyboard US Monitor	AZ870A
HP TFT7600 G2 KVM Console Rackmount Keyboard UK Monitor	AZ871A
HP TFT7600 G2 KVM Console Rackmount Keyboard DE Monitor	AZ872A
HP TFT7600 G2 KVM Console Rackmount Keyboard FR Monitor	AZ873A
HP TFT7600 G2 KVM Console Rackmount Keyboard IT Monitor	AZ874A
HP TFT7600 G2 KVM Console Rackmount Keyboard ES Monitor	AZ875A
HP TFT7600 G2 KVM Console Rackmount Keyboard DK Monitor	AZ876A
HP TFT7600 G2 KVM Console Rackmount Keyboard NO Monitor	AZ877A
HP TFT7600 G2 KVM Console Rackmount Keyboard SE/FI Monitor	AZ878A
HP TFT7600 G2 KVM Console Rackmount Keyboard CH Monitor	AZ879A
HP TFT7600 G2 KVM Console Rackmount Keyboard PT Monitor	AZ880A
HP TFT7600 G2 KVM Console Rackmount Keyboard BE Monitor	AZ881A



Additional Options

HP TFT7600 G2 KVM Console Rackmount Keyboard JP Monitor	AZ882A
HP TFT7600 G2 KVM Console Rackmount Keyboard RU Monitor	AZ883A
HP TFT7600 G2 KVM Console Rackmount Keyboard Intl Monitor	AZ884A
HP TFT7600 G2 KVM Console Rackmount Keyboard US TAA Monitor	AZ885A
NOTE: Please see the QuickSpecs for Technical Specifications and additional	
information:	
http://h18000.www1.hp.com/products/quickspecs/13731_div/13731_div.html	
(Worldwide)	
HP USB Keyboard and Mouse	_
HP USB BFR with PVC Free UK Keyboard/Mouse Kit	631344-B21
HP USB BFR with PVC Free FR Keyboard/Mouse Kit	631346-B21
HP USB BFR with PVC Free ES Keyboard/Mouse Kit	631348-B21
HP USB BFR with PVC Free DE Keyboard/Mouse Kit	631358-B21
HP USB BFR with PVC Free JP Keyboard/Mouse Kit	631360-B21
HP USB BFR with PVC Free IT Keyboard/Mouse Kit	631362-B21
HP USB BFR with PVC Free CN Keyboard/Mouse Kit	631364-B21
HP USB BFR with PVC Free AE Keyboard/Mouse Kit	638212-B21
HP USB BFR with PVC Free RU Keyboard/Mouse Kit	638214-B21
HP USB BFR with PVC Free AP-Intl Keyboard/Mouse Kit	672097-373
HP USB BFR with PVC Free Intl Keyboard/Mouse Kit	672097-B33
HP USB BFR with PVC Free PT Keyboard/Mouse Kit	672097-133
HP USB BFR with PVC Free TR Keyboard/Mouse Kit	672097-143
HP USB BFR with PVC Free CZ Keyboard/Mouse Kit	672097-223
HP USB BFR with PVC Free FI Keyboard/Mouse Kit	672097-353
HP USB BFR with PVC Free SE Keyboard/Mouse Kit	672097-103
HP USB BFR with PVC Free CH Keyboard/Mouse Kit	672097-113
HP USB BFR with PVC Free KR Keyboard/Mouse Kit	672097-KD3
HP USB BFR with PVC Free IN Keyboard/Mouse Kit	672097-D63
NOTE: Please see the QuickSpecs for Technical Specifications and additional	
information:	
http://h18000.www1.hp.com/products/quickspecs/13972_div/13972_div.html (Worldwide)	
HP Server Console Switches	
HP Server Console 0x2x8 Port Analog Switch	AF616A
HP Server Console 0x2x16 Port Analog Switch	AF617A
HP TAA 0x2x16xKVM Server Console G2 Switch	AF626A
NOTE: Please see the QuickSpecs for Technical Specifications and additional	
information:	
http://h18000.www1.hp.com/products/quickspecs/11834_div/11834_div.html (Worldwide)	
HP Server Console Switch G2 with Virtual Media & CAC	
HP 0x2x16 KVM Server Console Switch G2 with Virtual Media CAC Software	AF618A



Additional Options

HP 0x2x32 KVM Server Console Switch G2 with Virtual Media CAC Software	AF619A
HP KVM CAT5 1-pack USB Interface Adapter	336047-B21
NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
http://h18000.www1.hp.com/products/quickspecs/13475_div/13475_div.html (Worldwide)	
HP IP Console Switch G2 with Virtual Media & CAC	
HP 1x4 USB/PS2 KVM Console Switch	AF611A
HP 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software	AF620A
HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software	AF621A
HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software	AF622A
NOTE: Please see the QuickSpecs for Technical Specifications and additional information: http://h18000.www1.hp.com/products/quickspecs/13474_div/13474_div.html (Worldwide)	
Dail Vite	

Rail Kits

serviceability.

NOTE: Gen8 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 Gen8 server.

NOTE: Rail kits are optional for DL380p Gen8 and are no longer included standard with the server. Customers have the option to purchase their server without a rail kit. **NOTE:** Ball bearing rail kits contain telescoping rails which allow for in-rack

NOTE: The HP 2U Gen8 Cable Management Arm is not available when using Friction Rails.

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 Gen8 Cable Management Arm	720865-B21
HP 2U Large Form Factor Ball Bearing Gen8 Rail Kit	720864-B21
HP 2U Small Form Factor Ball Bearing Gen8 Rail Kit	720863-B21
HP 2U SFF Ball Bearing Gen8 Rail Kit with CMA	663478-B21
HP 2U LFF Ball Bearing Gen8 Rail Kit with CMA	663480-B21



Additional Options

HP USB and SD options	HP USB 04 Standard Keyboard	DT528A#ABA
	HP 4GB SD Enterprise Performance Flash Media Kit NOTE: Blank SD media device is supported for use with VMware and Citrix. SD media must be installed in the internal slot of the ProLiant server. Learn more at: http://www.hp.com/go/proliantvirtualization.	580387-B21
	HP 2GB USB Flash Media Drive Key Kit NOTE: HP qualified blank USB key for use with HP ProLiant servers that support the VMware virtualization. HP recommends this industry standard USB flash device for use with VMware ESXi. USB device must be installed in the internal slot of the ProLiant server for use with VMware ESXi. Refer to HP VMware Getting Started Guide for installation instructions.	608447-B21
	HP 32GB SD Enterprise Mainstream Flash Media Kit	700136-B21

HP Care Pack Services

Proactive Care

NOTE: Collaborative Support plus Proactive services delivered by the onshore, local language Advanced Solution Center (ASC), end-to-end case ownership from a Technical Solution Specialists and Technical Account Manager who remotely delivers firmware/software revision management, proactive scans and incident trend reports. Recommended for customers running a virtualized infrastructure and/or customers who desire an enhanced call support experience.

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HP 3 year 4 hour 24x7 ProLiant DL38x(p) Proactive Care Service	U2Z50E
HP 3 year 4 hour 24x7 with Defective Media Retention ProLiant DL38x(p) Proactive Care Service	U2Z53E
HP 3 year 6 hour Call To Repair 24x7 ProLiant DL38x(p) Proactive Care Service	U2Z56E
HP 3 year 6 hour Call To Repair 24x7 w/DefectiveMedia Retention ProLiant DL38x(p) Proactive Care SVC	U2Z59E
HP 3 year 4 hour 24x7 ProLiant DL38x(p) with Insight Control Proactive Care Service	U3N23E
HP 3 year 4hr 24x7 with Defective Media Retention DL38x(p) with Insight Control Proactive Care SVC	U3N26E
HP 3 year 6 hour Call To Repair 24x7 ProLiant DL38x(p) with Insight Control Proactive Care Service	U3N29E
HP 3yr 6hrCallToRepair 24x7w/Defective Media Retention DL38x(p) w/Insight Control Proactive Care SVC	U3N32E

Collaborative Support

NOTE: Hardware break/fix plus 24x7 software diagnosis support with collaborative call management for a broad spectrum of 3rd Party software products including O/S and hypervisors. Recommended for customers procuring 3rd party SW O/S and hypervisors from the software vendors directly and deploying them on HP ProLiant servers.

HP 3 year 4 hour 24x7 ProLiant DL38x(p) Collaborative Support	U1J30E
HP 3 year 4 hour 24x7 with Defective Media Retention ProLiant DL38x(p) Collaborative	U1J33E
Support	
HP 3 year 6 hour Call To Repair 24x7 ProLiant DL38x(p) Collaborative Support	U1J36E
HP 3 year 6hr Call To Repair 24x7 withDefective Media Retention ProLiant DL38x(p)	U1J39E
Collaborative Supp	



HP ProLiant DL380p Generation8 (Gen8)

QuickSpecs

Additional Options

NOTE: For more information, customer/resellers can contact: http://www.hp.com/services/carepack



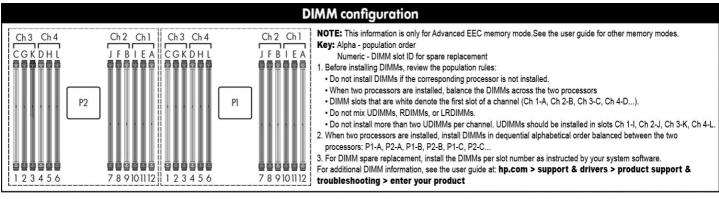
Memory

For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: www.hp.com/go/ddr3memory-configurator

Memory Subsystem Architecture

Each Intel® Xeon® E5-2600 family processor socket contains four memory channels that support three DIMMs each for a total of twelve (12) DIMM per installed processor or a grand total of twenty-four (24) DIMMs for the server. Up to 32GB capacity DIMMs are supported for 768GB of memory (24 DIMM slots x 32GB per DIMM).

Memory population guidelines



General Memory Population Rules and Guidelines:

- White DIMM slots denote the first slot of a channel. For 1 DPC (DIMM per channel) populate white slots only.
- 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.
- 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, LRDIMMs, and UDIMMs.
- 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.
- 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 qualified on the DL380p Gen8 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.
- For memory population rules and additional memory guidelines, please see the DL380p Gen8 user guide at http://www.hp.com/support.



Memory

DIMM Type DIMM Rank		Registered DIMMS (RDIMMs)						Load Reduced (LRDIMMs)	Unbuffered with ECC DIMMs (UDIMMs)			"HyperCl Memor (HDIMM			
	Sing	gle Rank	(1R)		Dual Ra	nk (2R)		Quad Rank (4R)	Single I (1R		D	ual Ra	nk (2R)		Dual Rai (2R)
DIMM Capacity	4GB	4GB	8GB	8GB	8GB	16GB	16GB	32GB	2GB	2GB	4GB	4GB	8GB	8GB	16GB
DIMM Native Speed (MHz)	1333	1600	1600	1333	1600	1333	1600	1333	1333	1600	1333	1600	1333	1600	1333
Voltage	LV	Std	Std	LV	Std	LV	Std	LV	LV	Std	LV	Std	LV	Std	Std
SLOTS THAT 24 slot servers	24	24	24	24	24	24	24	24	16	16	16	16	16	16	24
MAXIMUM C	APACIT	Y (GB) *	192	192	192	384	384	768	32	32	64	64	128	128	384
POPULATED	пімм с	DEED (M	H-)												
1 DIMM Per Channel	1333	1600	1600	1333	1600	1333	1600	1333***	1333	1600	1333	1600	1333	1600	n/a
2 DIMM Per Channel	1333	1600	1600	1333	1600	1333	1600	1333***	1333****	1600	1333***	1600	1333****	1600	n/a
3 DIMM Per Channel	1066**	1333##	1333##	1066**	1333##	1066**	1333##	1066	n/a	n/a	n/a	n/a	n/a	n/a	1333#

NOTE: Memory speed is a function of the processor QPI bus speed. To realize the performance memory capabilities listed above HP SmartMemory is required.

Memory Speed by Processor Model

Processor Models	Supported Memory Speeds
E5-2690 E5-2680, E5-2670, E5-2667, E5-2665, E5-2660, E5-2650, E5-2650L, E5-2643, E5-2637	1600/1333/1066MHz
E5-2640, E5-2630, E5-2630L, E5-2620	1333/1066MHz
E5-2609, E5-2603	1066MHz



^{*} Maximum capacity will vary based on individual server platform qualification schedule

^{**} For HP SmartMemory RDIMM supports up to 3DPC@1066 at 1.35V. Third party memory may only support up to 3DPC@1066 at 1.5V.

^{***} LRDIMMs enable 3 DIMMs per channel. HP SmartMemory will support up to 3DPC@1066 at 1.35V. Third party memory may only support and the support of the sup

^{*****} For HP SmartMemory, UDIMM is supported at 2DPC@1333 at 1.35V. Third party memory may only support up to 2DPC@1066 at 1.5V # RBSU setting required

Memory

Standard and Maximum Memory Capacity (Pre-configured Models)

Pre Configured Models	Standard Memory	Maximum Memory Plus Optional Memory	Standard Memory Replaced with Optional Memory
Intel Xeon E5-2690, E5-2665, E5-2650	32GB (4x 8GB)	352GB (20x16GB, 4x8GB)	768GB (24 x 32GB)
Intel Xeon E5-2640, E5-2630, E5-2620	16GB (4x 4GB)	336GB (20x16GB, 4x4GB)	768GB (24 x 32GB)
Intel Xeon E5-2609	4GB (1x 4GB)	372GB (23x16GB, 1x4GB)	768GB (24 x 32GB)

DIMM slot and configuration 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

		24 DIMM SLOTS	(12 per CPU node)		
	slot#	population order	slot#	population order	
	1	С	1	С	
Chnl 3	2	G	2	G	Chnl 3
	3	K	3	K	
	4	D	4	D	
Chnl 4	5	Н	5	Н	Chnl 4
	6	L	6	L	
	CPU1			CPU2	
	7	J	7	J	
Chnl 2	8	F	8	F	Chnl 2
	9	В	9	В	
	10	I	10	I	
Chnl 1	11	Е	11	E	Chnl 1
	12	Α	12	Α	

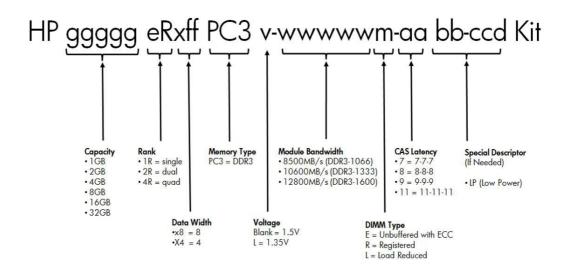
NOTE: Capacity references are rounded to the common Gigabyte values.

- 1GB = 1024MB
- 2GB = 2048MB
- 4GB = 4096MB
- 8GB = 8192MB
- 16GB = 16384MB
- 32GB = 32768MB

DDR3 memory options part number decoder



Memory



Following are memory options available from HP:

HP Memory

NOTE: HP memory from previous generation servers are 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 Gen8. For additional information, please see the HP SmartMemory QuickSpecs at: http://h18000.www1.hp.com/products/quickspecs/14225_div/14225_div.html **NOTE:** LRDIMM, RDIMM and UDIMMs are all distinct memory technologies and cannot be mixed within a server. The majority of ProLiant Gen8 servers support RDIMM, UDIMM and LRDIMM.

Registered DIMMs (RDIMMs)

HP 4GB (1x4GB) Single Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647893-B21
HP 8GB (1x8GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647897-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9 Low Voltage Memory Kit	647901-B21
HP 4GB (1x4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647895-B21
HP 8GB (1x8GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	647899-B21
HP 8GB (1x8GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	690802-B21
HP 16GB (1x16GB) Dual Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11 Memory Kit	672631-B21
Unbuffered with ECC DIMMs (UDIMMs)	
HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647905-B21
HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669320-B21
HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669322-B21



HP ProLiant DL380p Generation8 (Gen8)

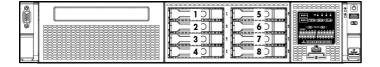
QuickSpecs

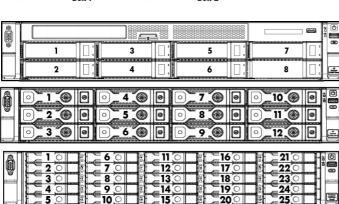
Memory

HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647907-B21
HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647909-B21
HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	669324-B21
Load Reduced DIMMs (LRDIMMs)	
HP 32GB (1x32GB) Quad Rank x4 PC3L-10600L (DDR3-1333) Load Reduced CAS-9 Low Voltage Memory Kit	647903-B21
NOTE: All DDR3 memory option kits consist of one DIMM per kit. For detailed memory configuration rules and guidelines, please use the Online DDR3 Memory Configuration Tool: www.hp.com/go/ddr3memory-configurator.	
NOTE: PC3L is a low voltage memory	



Storage





- 1-8 Eight SFF SAS hot plug drive bays
- 1-16 Sixteen SFF SAS hot plug drive bays

 NOTE: This configuration does not support optical drive.
- 1-8 Eight LFF SAS hot plug drive bays.
- 1-12 Twelve LFF SAS hot plug drive bays.NOTE: This configuration does not support optical drive.
- 1-25 Twenty-five SFF SAS hot plug drive bays.NOTE: This configuration does not support optical drive.

Drive Support

External Storage

	Quantity Supported	Position Supported	Host Controller or Adapter
D2600 Disk Enclosure	Up to 4	External	HP Smart Array P222 Controller
	Up to 8	External	HP Smart Array P421 Controller
			HP Smart Array P822 Controller
D2700 Disk Enclosure	Up to 4	External	HP Smart Array P222 Controller
	Up to 8	External	HP Smart Array P421 Controller
			HP Smart Array P822 Controller

Maximum Storage Capacity - (with D2700, SAS/SATA HDD)

Internal 30TB (25 SFF HDDs x 1.2TB SAS SFF)
Internal 48TB (12 LFF HDDs x4TB SATA LFF)
External 240TB (200 x 1.2TB SAS SFF)

Total 270TB (D2700 + DL380p Gen8 25 SFF)

288TB (D2700 + DL380p Gen8 12 LFF)



Technical Specifications

System Unit Dimensions (H x W x D) SFF Drives: 3.44 x 17.54 x 27.50 in (8.73 x 44.55 x 69.85 cm) (with bezel) LFF Drives: 3.44 x 17.54 x 29.50 in (8.73 x 44.55 x 74.93 cm)

Weight (approximate) Maximum 61.00 lb (27.66 kg)

(all LFF hard drives, power supply, and processor

installed)

Minimum 41.0 lb (18.59 kg)

(one SFF hard drive, power supply, and processor installed, ODD not

installed)

Input Requirements (per power supply)

Rated Line Voltage 100 to 120 VAC

200 to 240 VAC

Rated Input Current For 1200 W Power Supply:

10 A (at 100 VAC), 4.9 A (at 200 VAC) For 750 W Power Supply: 8.9 A (at 100 VAC), 4.3 A (at 200 VAC) For 460 W Power Supply:

For 460 W Power Supply: 5.5 A (at 100 VAC), 2.6 A (at 200 VAC)

Rated Input Frequency 50 to 60 Hz

Rated Input Power For 1200 W Power Supply:

930 W (at 100 VAC), 1348 W (at 200 VAC) For 750 W Power Supply: 857 W (at 100 VAC), 824 W (at 200 VAC) For 460 W Power Supply: 526 W (at 100 VAC), 505 W (at 200 VAC)

BTU Rating Maximum For 1200 W Power Supply:

3530 BTU/hr (at 100 VAC), 4600 BTU/hr (at 200 VAC) For 750 W Power Supply: 2925 BTU/hr (at 100 VAC), 2812 BTU/hr (at 200 VAC) For 460 W Power Supply: 1794 BTU/hr (at 100 VAC), 1725 BTU/hr (at 200 VAC)

Power Supply Output

(per power supply)

Rated Steady-State Power For 1200 W Power Supply:

800 W (at 100 VAC), 900 W (at 120 VAC), 1200 W (at 200 to 240 VAC)

For 750 W Power Supply: 750 W (at 100 to 120 VAC), 750 W (at 200 to 240 VAC)

Technical Specifications

	Maximum Peak Power	For 460 W Power 460 W (at 100 to 460 W (at 200 to 500 W) (at 100 V) 900 W (at 120 V) 1200 W (at 200 For 750 W) (at 100 to 750 W) (at 200 to 500 W) (at 100 to 460 W) (at 100 to 460 W) (at 200 to 460 W)	o 120 VAC), o 240 VAC) ver Supply: AC), to 240 VAC) er Supply: o 120 VAC), o 240 VAC) er Supply: o 120 VAC), or Supply:	
System Inlet Temperature	Operating	altitude derating per every 1000 of 3048 m (10,0 sunlight. Maxim (18°F/hr). The u type and number System perform with a fan fault	ft) above sea leve 00 ft), no direct s um rate of chang pper limit may be er of options insta nance may be red or above 30°C (86	ry 304.8 m (1.8°F) It o a maximum ustained e is 10°C/hr Ilimited by the Illed. uced if operating s°F).
	Non-operating	-30° to 60°C (-2) change is 20°C/I	2° to 140°F). Max hr (36°F/hr).	imum rate of
Relative Humidity (non-condensing)	Operating		ative humidity (Rh ulb temperature,	
	Non-operating		ive humidity (Rh) num wet bulb tem	
Altitude	Operating	the type and nu	ft). This value ma mber of options in able altitude char min).	nstalled.
	Non-operating		ft). Maximum all 57 m/min (1500 f	
Acoustic Noise	Listed are the declared A-W average bystander position the product is operating in measured in accordance wi with ISO 9296 (ECMA 109). configurations. Additional on NOTE: The Listed sound leve Additional options may resi	Veighted sound po n A-Weighted sou a 23°C ambient en th ISO 7779 (ECM The listed sound options may resul vels apply to stan	ower levels (LWA) nd pressure level nvironment. Noise A 74) and declare levels apply to st It in increased sou	d) and declared s (LpAm) when e emissions were d in accordance andard shipping und levels.
	. , , .	Entry	Base	Performance



Idle LWAd

LpAm

4.1 B

25 dBA

4.1 B

25 dBA

4.1 B

25 dBA

Technical Specifications

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LWAd 4.3 B 4.7 B 5.0 B LpAm 27 dBA 31 dBA 35 dBA

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 Smart Array P420i Controller

Dimensions Embedded

Disk Drive and Enclosure 6Gb/s SAS (Serial Attached SCSI)

Interface - Transfer Rate6Gb/s SATA (Serial ATA)SAS Connectors2 internal 4X connectors

Cache Memory Speed 512MB FBWC - DDR3-1333MHz with 40-bit wide bus, 1GB or 2GB FBWC DDR3-

1333MHz with 72-bit wide bus

Server Interface x8 PCIe 3.0 provides 8GB/s maximum bandwidth

SAS Speed (8) 6Gb/s SAS links provide 4.8GB/s maximum bandwidth

Cache Memory Zero Memory RAID has no cache memory

40-bit 512MB ECC protected flash back write cache

72-bit 1GB FBWC or 72-bit 2GB FBWC

Logical Drives Supported Zero Memory, Up to 2 logical volumes (8SFF or 4LFF physical drives)

Up to 64 logical drives with cache

Host Memory Addressing 64-bit, supporting greater than 4GB server memory space

RAID Support RAID 6, 6+0 (Advanced Data Guarding)

NOTE: RAID 6, 6+0 can be enabled with one of the following combinations:

512MB FBWC and Smart Array Advanced Pack License key option upgrades

 1GB or 2GB FBWC and Smart Array Advanced Pack License key option upgrades

RAID 5, 5+0 (Distributed Data Guarding)

NOTE: A minimum of 512MB cache is required to enable RAID 5, 5+0 support

RAID 1+0 (Striping & Mirroring)
RAID 0 (Striping), RAID 1 (Mirroring)



Technical Specifications

HP Ethernet 1Gb 4-port 331FLR Adapter

HP Flexible Network

Technology Network Interface HP Flexible Network Technology consists of replaceable network solutions to

meet the customers require now or in the future.

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

Compatibility EEE 802.3 10Base-T

IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX IEEE 802.3ad 1000Base-TX IEEE 802.1q 100Base-TX PCI Express, four lanes (x4)

Data Transfer Method

Chipset

BCM5719

Network Transfer Rate 10Base-T (Half-Duplex)

10Base-T (Full-Duplex) 20 Mb/s 100Base-TX (Half-Duplex) 100 Mb/s 100Base-TX (Full-Duplex) 200 Mb/s 1000Base-TX (Half and 2000Mb/s

Full-Duplex)

Connector Four RJ-45

Cable Support10Base-TCategories 3, 4 or 5 UTP;

up to 328 ft (100 m)

10 Mb/s

100Base-TX Category 5 or higher UTP;

up to 328 ft (100 m)

1000BaseTX Category 5 or higher UTP;

up to 328 ft (100 m)

HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter

Network Interface Compatibility

SFP+ for Direct Attach Cable copper or fibre

EEE 802.3 SFP+ (SX, SR & LR)

IEEE 802.1ax
IEEE 802.1q
IEEE 802.3x
IEEE 802.1au
IEEE 802.1au
IEEE 802.1Qaz
IEEE 802.1Qau
IEEE 802.1Qau

IEEE 802.3ae

Data Transfer Method

PCI Express, eight lanes (x8)

Chipset

BCM57810S

Network Transfer Rate

10Base-T (Half-Duplex) 10Gbps

10Base-T (Full-Duplex) 1Gbps

Connector Two SFP+

Cable Support 10Base-T Categories 3, 4 or 5 UTP;

Technical Specifications

up to 328 ft (100 m)

100Base-TX Category 5 or higher UTP;

up to 328 ft (100 m)

1000BaseTX Category 5 or higher UTP;

up to 328 ft (100 m)

Environment-friendly Products and Approach

End-of-life Management and Recycling

Hewlett-Packard offers end-of-life 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.

