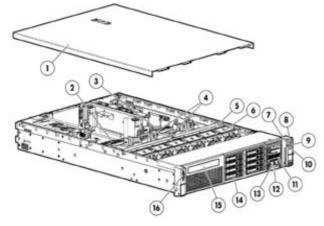
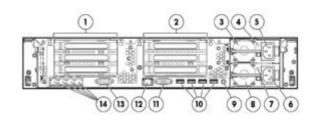
Overview

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:

- Quick removal access panel
- 2. Second Intel Processor
- 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 8.
- 9. USB connector
- 10. Unit ID LED
- 11. Systems Insight Display
- Asset Tag
- 13. USB connector
- 14. Drive Bays
- Optional Slim Optical Bay (SATA DVD-RW /ROM Optical Drive)
- 16. Video connector

Rear View:

- 1. PCle 3.0 Slots 1, 2, 3-PCle 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
- 5. 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
- n 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

- New SSD HDD's
- New PCle Workload Accelerator
- New GPGPU options



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

E5-2600 v2 series Processors

Entry Processors

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

Intel® Xeon® E5-2609 v2 (2.5GHz/4-core/10MB/6.4GT-s QPI/80W)

Intel® Xeon® E5-2603 v2 (1.8GHz/4-core/10MB/6.4GT-s QPI/80W)

Base Processors

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

Intel® Xeon® E5-2640 v2 (2.0GHz/8-core/20MB/7.2GT-s QPI/95W, DDR3-1600, HT, Turbo2-3/3/3/3/4/5)

Intel® Xeon® E5-2630 v2 (2.6GHz/6-core/15MB/7.2GT-s QPI/80W, DDR3-1600, HT, Turbo2-3/3/3/4/5)

Intel® Xeon® E5-2620 v2 (2.1GHz/6-core/15MB/7.2GT-s QPI/80W, DDR3-1600, HT, Turbo2-3/3/3/4/5)

Intel® Xeon® E5-2650L v2 (1.7GHz/10-core/25MB/8.0GT-s QPI/70W, DDR3-1600, HT, Turbo2-2/2/2/2/2/2/3/4)

Intel® Xeon® E5-2630L v2 (2.4GHz/6-core/15MB/7.2GT-s QPI/60W, DDR3-1600, HT, Turbo2-2/2/2/3/4)

Performance Processors

NOTE: All support up to 1866MHz DDR3 memory speeds.

Intel® Xeon® E5-2697 v2 (2.7GHz/12-core/30MB/8.0GT-s QPI/130W, DDR3-1866, HT, Turbo2-3/3/3/3/3/3/4/5/6/7/8)

Intel® Xeon® E5-2695 v2 (2.4GHz/12-core/30MB/8.0GT-s QPI/115W, DDR3-1866, HT, Turbo2-4/4/4/4/4/4/5/6/7/8)

Intel® Xeon® E5-2690 v2 (3.0GHz/10-core/25MB/8.0GT-s QPI/130W, DDR3-1866, HT, Turbo2-3/3/3/3/3/3/4/5/6)

Intel® Xeon® E5-2680 v2 (2.8GHz/10-core/25MB/8.0GT-s QPI/115W, DDR3-1866, HT, Turbo2-3/3/3/3/4/5/6/7/8)

Intel® Xeon® E5-2670 v2 (2.5GHz/10-core/25MB/8.0GT-s QPI/115W, DDR3-1866, HT, Turbo2-4/4/4/4/4/5/6/7/8)

Intel® Xeon® E5-2667 v2 (3.3GHz/8-core/25MB/8.0GT-s QPI/130W, DDR3-1866, HT, Turbo2-3/3/3/4/5/6/7)

Intel® Xeon® E5-2660 v2 (2.2GHz/10-core/25MB/8.0GT-s QPI/95W, DDR3-1866, HT, Turbo2-4/4/4/4/4/5/6/7/8)

Intel® Xeon® E5-2650 v2 (2.6GHz/8-core/20MB/8.0GT-s QPI/95W, DDR3-1866, HT, Turbo2-4/4/4/5/6/7/8)

Intel® Xeon® E5-2643 v2 (3.5GHz/6-core/25MB/8.0GT-s QPI/130W, DDR3-1866, HT, Turbo2-1/1/1/2/3)

Intel® Xeon® E5-2637 v2 (3.5GHz/4-core/15MB/8.0GT-s QPI/130W, DDR3-1866, HT, Turbo2-1/1/2/3)

E5-2600 series Processors

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)



Standard Features

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/8.0GT-s QPI/135W, DDR3-1600, HT, Turbo2-4/4/5/5/7/7/9)

Intel® Xeon® E5-2680 (2.7GHz/8-core/20MB/8.0GT-s QPI/130W, DDR3-1600, HT, Turbo2-4/4/5/5/5/7/8/8)

Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/8.0GT-s QPI/115W, DDR3-1600, HT, Turbo2-4/4/5/5/6/6/7/7)

Intel® Xeon® E5-2667 (2.9GHz/6-core/15MB/8.0GT-s QPI/130W, DDR3-1600, HT, Turbo2-3/3/3/4/5/6)

Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/8.0GT-s QPI/115W, DDR3-1600, HT, Turbo2-4/4/5/5/6/6/7/7)

Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/8.0GT-s QPI/95W, DDR3-1600, HT, Turbo2-5/5/6/6/7/7/8/8)

Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/8.0GT-s QPI/95W, DDR3-1600, HT, Turbo2-4/4/5/5/5/7/8/8)

Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/8.0GT-s QPI/70W, DDR3-1600, HT, Turbo2-2/2/3/3/4/4/5/5)

Intel® Xeon® E5-2643 (3.3GHz/4-core/10MB/8.0GT-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 or 1 core(s) 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, 2 = number of CPUs in a Node, 6 is socket/segment designation, 00 = Processor SKU, and x = L for low power SKUs.



Standard Features

Cache Memory

One of the following depending on Model

30MB (1x30MB) Level 3

NOTE: For Twelve-core processors.

25MB (1x25MB) Level 3

NOTE: For Ten-core processors.

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 and E5-2600 v2 Processor Families

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

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

Upgradeability

Upgradeable to 2 processors (24 Cores)

NOTE: Processor upgrade available from Intel® Xeon® Processors E5-2600 to E5-2600 v2. Please contact HP Technology Sales (http://www.hp.com/support), your local HP Re-seller, or reference the following Customer Advisory: ProLiant Servers-Instructions for Upgrading an HP ProLiant Gen8 Server from an Intel Xeon Processor E5-2600 to an Intel Xeon Processor E5-2600 v2, regarding critical details before upgrading. An explanation of requirements and limitations are provided.

Up to 24 DIMM slots available for higher Memory capacity

FlexibleLOM connector for 1 Gigabit or 10 Gigabit networking options

8SFF Hard drive bays (16SFF with optional upgrade), 8LFF, 12LFF, or 25SFF

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 ManagementHP iLO (Firmware: HP iLO 4)

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



Standard Features

Memory Protection

Advanced ECC

NOTE: Advanced ECC uses single device data correction (SDDC) to detect and correct single and all multi-bit 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.

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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)

Maximum Capacity

(LRDIMM)

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

Maximum Capacity

(RDIMM)

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

Maximum Capacity

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

(UDIMM)

Maximum Capacity

768GB (24 x 32GB HDIMM @1333MHz)

(HDIMM)

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 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 1866MHz, 1600MHz, 1333MHz, or 1066MHz. Please see Memory Population Table or the Online Memory Configuration Tool at: www.hp.com/go/ddr3memory-configurator.



Standard Features

Network Controller One of the following depending on Model HP ProLiant Gen8 servers offer a new flexible network technology - FlexibleLOMs. The HP ProLiant DL380p Gen8 server offers the customer the choice of 1Gb, 10Gb, or 10Gb base-T networking solutions. For additional details see the Networking Section of this document.

Entry Models

Base Models

HP Ethernet 1Gb 4-port 331FLR Adapter

HP Ethernet 1Gb 4-port 331FLR Adapter

HP Ethernet 1Gb 2-port 533FLR-T Adapter

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

HP Ethernet 1Gb 4-port 331FLR Adapter

HP Ethernet 1Gb 4-port 331FLR Adapter

HP Ethernet 1Gb 2-port 533FLR-T Adapter

HP Ethernet 1Gb 4-port 331FLR Adapter

HP Ethernet 1Gb 4-port 331FLR Adapter

Expansion Slots

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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	X8	10	Half Length, Full Height Slot	Proc 1
	3	PCIe 2.0	X4	X8	13	Half Length, Full Height	Chipset

^{*} 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 (PN 669777-B21). See Option Section below for offering.

PCle Riser (Optional 3-slot)

Expansion Slots #	Technology	Bus Width**	Connector Width	Bus Number*	Form Factor	Notes
4	PCle 3.0	X16	X16	16	Full length, full height slot	Proc 2
5	PCle 3.0	X8	X8	20	Half length, full height slot	Proc 2
6	PCle 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 PCle cards, but an additional Power Cord Option is required (669777-B21). See Option Section below for offering

PCle Riser	Expansion	Technology	Bus	Connector	Bus	Form Factor	Notes
(Optional 2-slot)	Slots #		Width**	Width	Number*		



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

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

Standard Features

4	PCle 3.0	X16	X16	16	Full length, Full height slot	Proc 2
5	PCIe 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

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 Controller 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+0/6/6+0)
25SFF Models	HP Smart Array P420i/2GB with FBWC (RAID 0/1/1+0/5/5+0/6/6+0)
Performance Models	HP Smart Array P420i/2GB with FBWC (RAID 0/1/1+0/5/5+0/6/6+0)
Energy Star Models	HP Smart Array P420i/1GB with FBWC (RAID 0/1/1+0/5/5+0/6/6+0)



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

Standard Features

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, 8 LFF drive bays total

with Optical Bay, 12LFF drive bays total, or 25SFF drive bays total

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

NOTE: The Optical drive bay is not available with the 12LFF model,

25SFF model, or +8SFF drive bay optional upgrade.

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 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	30.01B	25 x 1.21B (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	9.6TB	12 x 800GB (with optional LFF drive cage)

Interfaces

Serial

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 or 2 x 10Gb base-T ports (See HP Networking section below for

more details and options).

HP iLO Remote

Management Network

Port

1 Gb Dedicated

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.

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

NOTE: Only 1 front USB port available for 12LFF and 25SFF models.



Standard Features

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 (A0K02A). If a user wishes to power a ProLiant DL server using a 110V receptacle (NEMA-15), the 6-foot NEMA 5-15 to C13 power cord must be ordered separately (AF556A). See Power Cords section for Worldwide Power Cord options.

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 80Plus.org.



Standard Features

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.

Virtualization Software Canonical Ubuntu

Support for ProLiant Servers

Operating Systems and 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

8 SFF & 25SFF 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 & 12LFF Drive Bay Version:

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



Standard Features

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.
 - HP Intelligent Provisioning: Lets customers provision and 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



Standard Features

HP Insight management HP Service Pack for ProLiant (SPP)

HP Service Pack for ProLiant (SPP) and HP Smart Update Manager (HP SUM) provide a 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 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. Further improving system uptime and stability is the fact that HP provides 12 months of support for each Service Pack for ProLiant release.

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 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 provides a 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 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 This testing ensures the highest quality as well as providing the input for HP SUM to deploy updates taking into account all interdependencies, when determining the correct updates and order of update deployment.

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

Security

Power-on password Serial interface control Administrator's password



HP ProLiant DL380p Generation8 (Gen8)

QuickSpecs

Standard Features

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 Insight management 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, multi-user 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/iloadvanced

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

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 hardwarespecific 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

HP StoreVirtual VSA

HP StoreVirtual VSA allows you to create fully featured shared storage on a VMware vSphere or Microsoft Hyper-V virtualized server. This server model starting November 2013, includes a limited license for HP StoreVirtual VSA software with 1TB of capacity. To download the license key and StoreVirtual VSA software, visit www.hp.com/go/unlockVSA.

NOTE: You will need your server serial number in order to complete the registration form.



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

Factory Express Portfolio for Servers and Storage

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

Capitalizing on HP ProLiant server 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.

Protect your business beyond warranty with HP Care Pack Services

HP Care Pack services offer complete care and support expertise with committed response choices designed to meet your IT and business needs.

HP Foundation Care services offer scalable reactive support-packages for HP industry-standard servers and software. You can choose the type and level of service that is most suitable for your IT and business needs. HP Proactive Care delivers high levels of system availability through proactive service management and advanced technical response.

Optimized Care

Supports maintaining servers at optimum performance availability

3-Year HP 6 hour Call to Repair Response, Proactive Care*

Combined reactive and proactive support for hardware and software helping optimize your systems and delivering high levels of availability through proactive service management and advanced technical response. Hardware problem resolution to return the hardware in operating condition within 6 hours of the initial service request. A Technical Account Manager, as your single point of contact, will own your call or issue end to end until resolved.

http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855EEE.pdf

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

Standard Care

Service recommendation that maintains high level of server availability

3-Year HP 24x7 4 hour response, Proactive Care Service*

This service gives you combined reactive and proactive support including rapid access to our Advanced Solution Center to manage and prevent problems and a Technical Support Specialist with a broad level of technical knowledge that will engage with additional technical expertise as needed from HP's vast global resources.

http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA3-8855EEE.pdf

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



Service and Support

Related Services

HP Proactive Care Personalized Support - Environmental Option

The Personalized Support option provides an assigned Account Support Manager who can bring best practices from across the industry plus extra technical skills to your IT team. This option is only available as an add-on to HP Proactive Care Support.

HP Proactive Select Service

Provides a flexible way to purchase HP best-in-class consultancy and technical services. You can buy Proactive Select Service Credits when you purchase your hardware and then use the credits over the next 12 months. http://h20195.www2.hp.com/V2/GetPDF.aspx/4AA2-3842ENN.pdf

Additional HP Care Pack services can be found at:

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

Insight Online/Insight Remote Support

HP Insight Remote Support provides 24 X 7 remote monitoring, proactive notifications, and problem resolution. This comes at no additional cost with your HP solution*. Learn more about Insight Remote Support http://www.hp.com/go/insightremotesupport and Insight Online http://www.hp.com/go/insightonline

* Insight Remote Support is a prerequisite for Proactive Care.

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

Parts and Material

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

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

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

For more information

To learn more on HP ProLiant servers, please contact your HP sales representative or HP Authorized ServiceOne 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

E5-2600 v2 series Processors

HP ProLiant DL380p Gen8 E5-2609v2 1P 4GB-R P420i/ZM 460W **PS Server** 704560-xx1

Processor(s) **Cache Memory** (1) Intel® Xeon® E5-2609 v2 (2.5GHz/4-core/10MB/6.4GT-s QPI/80W)

10MB (1x10MB) Level 3 Memory

4GB (1x4GB) PC3L-12800R (DDR3-1600LV) 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 PCI-Express Slots Power Supply

Management

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

(1) HP 460W Common Slot Gold Hot Plug Power Supply (92% Efficient) **Fans** (4) (N+1 redundancy standard)

HP iLO Management Engine (standard)

Optional: HP Insight Control

Energy Star

N/A Form Factor Rack (2U), HP Friction Rail Kit

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 Warranty

support with next business day response.

E5-2600 series Processors

HP ProLiant DL380p Processor(s) (1) Intel® Xeon® E5-2609 (2.4GHz/4-core/10MB/6.4GT-s QPI/80W)

Gen8 E5-2609 1P 4GB-R Processor



Pre-configured Models

P420i SFF 460W PS Entry Server 642121-xx1

Cache Memory 10MB (1x10MB) Level 3

Memory 4GB (1x4GB) PC3L-10600R (DDR3-1333) Registered DIMMS

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

configuration)

Network Controller HP Ethernet 1Gb 4-port 331FLR Adapter
Storage Controller 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 **Form Factor** Rack (2U), HP Friction Rail Kit

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.

Base Models

E5-2600 v2 series Processors

HP ProLiant DL380p Gen8 E5-2630v2 1P

16GB-R P420i/1GB FBWC 460W PS Server

704559-xx1

Processor(s)

(1) Intel® Xeon® E5-2630 v2 (2.6GHz/6-core/15MB/7.2GT-s QPI/80W,

DDR3-1600, HT, Turbo2- 3/3/3/3/4/5)

Cache Memory 15MB (1x15MB) Level 3

Memory 16GB (1x16GB) PC3L-12800R (DDR3-1600LV) Registered DIMMs

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

configuration)

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

Storage Controller HP Smart Array P420i/1GB FBWC (RAID 0/1/1+0/5/5+0/6/6+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 PCIe slots available with upgrade option)

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

Fans (4) (N+1 redundancy standard)



Pre-configured Models

Management HP iLO Management Engine (standard)

Optional: HP Insight Control

Energy Star N/A

Form Factor Rack (2U), HP Ball Bearing Rail Kit without Cable Management Arm

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 Warranty

support with next business day response.

E5-2600 series Processors

HP ProLiant DL380p Gen8 E5-2640 1P 16GB- One of the following **R P420i SFF 460W PS**

Base Server

642107-xx1

HP ProLiant DL380p Gen8 E5-2630 1P 16GB-**R P420i SFF 460W PS**

Base Server 642119-xx1

HP ProLiant DL380p Gen8 E5-2620 1P 16GB-**R P420i SFF 460W PS Base Server**

642120-xx1

Processor(s)

depending on Model

Cache Memory

Memory

Network Controller Storage Controller

Hard Drive

Internal Storage

Optical Drive Bay **PCI-Express Slots**

Power Supply

Fans Management

Energy Star

Warranty

Form Factor

(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+0/6/6

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)

HP iLO Management Engine (standard)

Optional: HP Insight Control

(4) (N+1 redundancy standard)

Meets Energy Star requirements

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

25SFF Models

NOTE: This Model is Energy Star Certified.

E5-2600 v2 series Processors

HP ProLiant DL380p Gen8 E5-2650v2 2P 32GB-R P420i/2GB **FBWC 750W RPS**

Server 704558-xx1

(2) Intel® Xeon® E5-2650 v2 (2.6GHz/8-core/20MB/8.0GT-s QPI/95W, Processor(s)

DDR3-1866, HT, Turbo2- 4/4/4/4/5/6/7/8)

20MB (1x20MB) Level 3 Cache Memory

32GB (2x16GB) PC3-14900R (DDR3-1866) Registered DIMMs Memory

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

configuration)

Network Controller

HP FlexFabric 10Gb 2-port 533FLR-T Adapter

Storage Controller

HP Smart Array P420i/2GB FBWC (RAID 0/1/1+0/5/5+0/6/6+0)

Hard Drive

None ship standard

Internal Storage

Standard: 25 SFF SAS/SATA HDD Bays; includes 23 SFF hard drive

Optical Drive Bay

Not available in 25 SFF model

PCI-Express Slots

6 PCIe slots

Power Supply

(2) HP 750W 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

Rack (2U), HP Ball Bearing Rail Kit without Cable Management Arm **Form Factor**

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.

Performance Models

NOTE: These Models are Energy Star Certified.

E5-2600 v2 series Processors

HP ProLiant DL380p Gen8 E5-2690v2 2P 32GB-R P420i/2GB **FBWC 750W RPS**

Server 709943-xx1 Processor(s)

(2) Intel® Xeon® E5-2690 v2 (3.0GHz/10-core/25MB/8.0GT-s QPI/130W,

DDR3-1866, HT, Turbo2- 3/3/3/3/3/3/3/4/5/6)

Cache Memory

25MB (1x25MB) Level 3

32GB (2x16GB) PC3-14900R (DDR3-1866) Registered DIMMs Memory

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

configuration)

Network Controller

HP FlexFabric 10Gb 2-port 533FLR-T Adapter

Storage Controller

HP Smart Array P420i/2GB FBWC (RAID 0/1/1+0/5/5+0/6/6+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



Pre-configured Models

Optical Drive Bay DVD-RW standard **PCI-Express Slots** 6 PCIe slots

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

Fans (6) (N+1 redundancy standard)

HP iLO Management Engine (standard) Management

HP Insight Control Standard

Energy Star Meets Energy Star requirements

Form Factor Rack (2U), HP Ball Bearing Rail Kit without Cable Management Arm

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 Warranty

support with next business day response.

E5-2600 series Processors

HP ProLiant DL380p Gen8 E5-2690 2P 32GB- One of the following R P420i SATA SFF

750W PS High Perf Server 662257-xx1

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

HP ProLiant DL380p Gen8 E5-2650 2P 32GB-R P420i SFF 750W PS **High Perf Server** 642106-xx1

Processor(s)

depending on Model

Cache Memory Memory

Network Controller

One of the following depending on Model

Storage Controller **Hard Drive**

Internal Storage

PCI-Express Slots

Power Supply

Fans

(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

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

NOTE: Total 24 DIMM slots available.

20MB (1x20MB) Level 3

HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter (on E5-2690/E5-2665

Models)

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

server 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+0/6/6+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

Optical Drive Bay DVD-RW standard

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)

Management HP iLO Management Engine (standard)

HP Insight Control Standard

Energy Star Meets Energy Star requirements

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



Pre-configured Models

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 Warranty

support with next business day response.

Energy Star Models

NOTE: These Models are Energy Star Certified.

E5-2600 v2 series Processors

HP ProLiant DL380p Gen8 E5-2630v2 2P

32GB-R P420i/1GB FBWC 460W PS Server 709942-xx1

Processor(s)

(2) Intel® Xeon® E5-2630 v2 (2.6GHz/6-core/15MB/7.2GT-s QPI/80W,

DDR3-1600, HT, Turbo2- 3/3/3/3/4/5) 15MB (1x15MB) Level 3

Cache Memory

Memory

32GB (2x16GB) PC3L-12800R (DDR3-1600LV) Registered DIMMs

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

HP Smart Array P420i/1GB FBWC (RAID 0/1/1+0/5/5+0/6/6+0)

Optional: Slim Optical Bay (SATA DVD-RW/ROM Optical Drive)

configuration)

6 PCIe slots

Network Controller

Storage Controller

Hard Drive

Internal Storage

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

Optical Drive Bay PCI-Express Slots

Power Supply

(1) HP 460W CS Platinum Plus Hot Plug Power Supply (94% Efficient) (6) (N+1 redundancy standard)

Management

Fans

HP iLO Management Engine (standard)

HP Ethernet 1Gb 4-port 331FLR Adapter

Optional: HP Insight Control

Energy Star Form Factor Meets Energy Star requirements

Rack (2U), HP Ball Bearing Rail Kit without Cable Management Arm **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.

E5-2600 series Processors

HP ProLiant DL380p Gen8 E5-2630 2P 16GB-R P420i 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 Hard Drive

HP Smart Array P420i/1GB with FBWC (RAID 0/1/1+0/5/5+0/6/6+0)

None ship standard



Pre-configured Models

de	els	
	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) 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
	Form Factor	Rack (2U), HP Ball Bearing Rail Kit /Cable Management Arm 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.
	Warranty	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.
	xx = 00	U.S.
	xx = 20	Brazil
	xx = 29	Japan
	xx = 37	APD

Country Code Key

xx = 42Europe xx = AAPRC

NOTE: Not all country codes will be available on all Pre-configured models



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 PCle 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

NOTE: If a P430 controller is required, it cannot be populated in slots 3 or 4.

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 PCle 3.0 (x16 connector)
- Slot 2 HL/FH x8 PCle 3.0 (x8 connector)
- Slot 3 HL/FH x4 PCle 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

NOTE: If a P430 controller is required, it cannot be populated in slots 3 or 4.

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 PCle 3.0 (x16 connector)
- Slot 2 HL/FH x8 PCle 3.0 (x8 connector)
- Slot 3 HL/FH x4 PCle 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, 1 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 can only choose from 115W or lower E5-2600 and E5-2600 v2 processors in this configure-to-order model.

NOTE: Processors consuming 115W power or greater require the use of DIMM blanks and do not support LR or HC-DIMMs,

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: If a P430 controller is required, it cannot be populated in slots 3 or 4.

NOTE: 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 PCle 3.0 (x16 connector)
- Slot 2 HL/FH x8 PCle 3.0 (x8 connector)
- Slot 3 HL/FH x4 PCle 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, 1 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 nor the E5-2637 v2 processor in this configure-to-order model.



Configuration Information - Factory Integrated Models

NOTE: Processors consuming 115W power or greater require the use of DIMM blanks and do not support LR-DIMMs

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 P430 controller is required, it cannot be populated in slots 3 or 4.

NOTE: 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.

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 - E5-2600 v2 series Processors

NOTE: All support up to 1333MHz memory speeds.

HP DL380p Gen8 Intel® Xeon® E5-2609v2 (2.5GHz/4-core/10MB/80W) FIO 715222-L21 Processor Kit

HP DL380p Gen8 Intel® Xeon® E5-2603v2 (1.8GHz/4-core/10MB/80W) FIO 715223-L21 Processor Kit

Base Processors - E5-2600 v2 series Processors NOTE: All support up to 1600MHz DDR3 memory speeds.

 HP DL380p Gen8 Intel® Xeon® E5-2640v2 (2.0GHz/8-core/20MB/95W) FIO
 715219-L21

 Processor Kit
 HP DL380p Gen8 Intel® Xeon® E5-2630v2 (2.6GHz/6-core/15MB/80W) FIO
 715220-L21

 Processor Kit
 HP DL380p Gen8 Intel® Xeon® E5-2620v2 (2.1GHz/6-core/15MB/80W) FIO
 715221-L21

Processor Kit

HP DL380p Gen8 Intel® Xeon® E5-2650Lv2 (1.7GHz/10-core/25MB/70W) FIO

715221-L21

Processor Kit

715221-L21

715229-L21

HP DL380p Gen8 Intel® Xeon® E5-2630Lv2 (2.4GHz/6-core/15MB/60W) FIO 715230-L21 Processor Kit

Performance Processors - E5-2600 v2 series Processors

NOTE: All support up to 1866MHz DDR3 memory speeds

HP DL380p Gen8 Intel® Xeon® E5-2697v2 (2.7GHz/12-core/30MB/130W) FIO 715224-L21 Processor Kit

HP DL380p Gen8 Intel® Xeon® E5-2695v2 (2.4GHz/12-core/30MB/115W) FIO 715225-L21 Processor Kit

HP DL380p Gen8 Intel® Xeon® E5-2690v2 (3.0GHz/10-core/25MB/130W) FIO 715214-L21 Processor Kit

HP DL380p Gen8 Intel® Xeon® E5-2680v2 (2.8GHz/10-core/25MB/115W) FIO 715215-L21 Processor Kit

HP DL380p Gen8 Intel® Xeon® E5-2670v2 (2.5GHz/10-core/25MB/115W) FIO 715216-L21 Processor Kit

HP DL380p Gen8 Intel® Xeon® E5-2667v2 (3.3GHz/8-core/25MB/130W) FIO 715226-L21 Processor Kit



Configuration Information - Factory Integrated Models

HP DL380p Gen8 Intel® Xeon® E5-2660v2 (2.2GHz/10-core/25MB/95W) FIO Processor Kit	715217-L21
HP DL380p Gen8 Intel® Xeon® E5-2650v2 (2.6GHz/8-core/20MB/95W) FIO Processor Kit	715218-L21
HP DL380p Gen8 Intel® Xeon® E5-2643v2 (3.5GHz/6-core/25MB/130W) FIO Processor Kit	715227-L21
HP DL380p Gen8 Intel® Xeon® E5-2637v2 (3.5GHz/4-core/15MB/130W) FIO Processor Kit	715228-L21
Entry Processors - E5-2600 series 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	662252-L21
HP DL380p Gen8 Intel® Xeon® E5-2603 (1.80GHz/4-core/10MB/80W) FIO Processor Kit	662254-L21
Base Processors - E5-2600 series Processors	
NOTE: All support up to1333MHz DDR3 memory speeds.	000040 1 04
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 - E5-2600 series Processors	
NAME AND A CORPORATION DEPOSIT	
NOTE: All support up to 1600MHz DDR3 memory speeds	662226 24
HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) FIO Processor Kit	662226-L21
HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) FIO	662226-L21 662228-L21
HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2680 (2.7GHz/8-core/20MB/130W) FIO	
HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2680 (2.7GHz/8-core/20MB/130W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/115W) FIO	662228-L21
HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2680 (2.7GHz/8-core/20MB/130W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/115W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/6-core/15MB/130W) FIO	662228-L21 662240-L21
HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2680 (2.7GHz/8-core/20MB/130W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/115W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/6-core/15MB/130W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) FIO	662228-L21 662240-L21 662214-L21
HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2680 (2.7GHz/8-core/20MB/130W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/115W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/6-core/15MB/130W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) FIO	662228-L21 662240-L21 662214-L21 666509-L21
HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2680 (2.7GHz/8-core/20MB/130W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/115W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/6-core/15MB/130W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) FIO Processor Kit	662228-L21 662240-L21 662214-L21 666509-L21 662242-L21
HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2680 (2.7GHz/8-core/20MB/130W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/115W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/6-core/15MB/130W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2650 (1.8GHz/8-core/20MB/70W) FIO Processor Kit	662228-L21 662240-L21 662214-L21 666509-L21 662242-L21 662244-L21
HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2680 (2.7GHz/8-core/20MB/130W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/115W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/6-core/15MB/130W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2650 (1.8GHz/8-core/20MB/70W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/70W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2643 (3.3GHz/4-core/10MB/130W) FIO	662228-L21 662240-L21 662214-L21 666509-L21 662242-L21 662244-L21 662256-L21
HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2680 (2.7GHz/8-core/20MB/130W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2670 (2.6GHz/8-core/20MB/115W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2667 (2.9GHz/6-core/15MB/130W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/115W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2665 (2.4GHz/8-core/20MB/95W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2660 (2.2GHz/8-core/20MB/95W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2650 (2.0GHz/8-core/20MB/95W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2650L (1.8GHz/8-core/20MB/70W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2643 (3.3GHz/4-core/10MB/130W) FIO Processor Kit HP DL380p Gen8 Intel® Xeon® E5-2643 (3.3GHz/4-core/10MB/130W) FIO Processor Kit	662228-L21 662240-L21 662214-L21 666509-L21 662242-L21 662244-L21 662256-L21 662216-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



Configuration Information - Factory Integrated Models

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 UDIMM, 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 DIMMs (RDIMMs)	
NOTE: The following memory is supported by the E5-2600 v2 series Processors.	
HP 4GB (1x4GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713981-B21
HP 4GB (1x4GB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit	708637-B21
HP 8GB (1x8GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713983-B21
HP 8GB (1x8GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	731765-B21
HP 8GB (1x8GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit	708639-B21
HP 8GB (1x8GB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit	731761-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713985-B21
HP 16GB (1x16GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit	708641-B21
Registered DIMMs (RDIMMs)	
NOTE: The following memory is supported by the E5-2600 series Processors.	
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)	
NOTE: The following memory is supported by the E5-2600 v2 series Processors.	
HP 2GB (1x2GB) Single Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit	713975-B21
HP 2GB (1x2GB) Single Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory Kit	708631-B21



Configuration Information - Factory Integrated Models

, ,	
HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit	713977-B21
HP 4GB (1x4GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory Kit	708633-B21
HP 8GB (1x8GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit	713979-B21
HP 8GB (1x8GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory Kit	708635-B21
Unbuffered with ECC DIMMs (UDIMMs)	
NOTE: The following memory is supported by the E5-2600 series Processors.	
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)	
NOTE: The following memory is supported by the E5-2600 v2 series Processors. However it is not supported on the DL380p Gen8 25-SFF CTO Server (PN/	
665554-B21).	700040 504
HP 32GB (1x32GB) Quad Rank x4 PC3-14900L (DDR3-1866) Load Reduced CAS-13 Memory Kit	708643-B21
Load Reduced DIMMs (LRDIMMs)	
NOTE: The following memory is supported by the E5-2600 series Processors. However it is not supported on the DL380p Gen8 25-SFF CTO Server (PN/ 665554-B21).	
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: 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: The FlexibleLOM Adapters in this section are Factory Integrated Options (FIO) only.	

HP Networking

(FIO) only.

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



HP InfiniBand

HP Power Supplies

Configuration Information - Factory Integrated Models

lation 1 detaily integrated Models	
HP FlexFabric 10Gb 2-port 526FLR-SFP+ FIO Adapter	684219-B21
HP Ethernet 10Gb 2-port 530FLR-SFP+ FIO Adapter	684210-B21
HP FlexFabric 10Gb 2-port 533FLR-T FIO Adapter	700760-B21
HP FlexFabric 10Gb 2-port 534FLR-SFP+ FIO Adapter	700752-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 561FLR-T FIO Adapter	700700-B21
HP Ethernet 10Gb 2-port 570FLR-SFP+ FIO Adapter	717492-B21
HP Ethernet 10Gb 2-port 571FLR-SFP+ FIO Adapter	728993-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 FDR/Ethernet 10Gb/40Gb 2-port 544FLR-QSFP Adapter	649282-B21
HP Infiniband QDR/Ethernet 10Gb 2-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	
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 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 Platinum Power Supply Kits NOTE: The following Power Supplies offer 94% efficiency to save on energy costs. HP Common Slot Platinum Power Supplies do not support Power Discovery Services and ship with a standard AC power connector.	
HP 460W Common Slot Platinum Hot Plug Power Supply Kit	739252-B21
HP 750W Common Slot Platinum Hot Plug Power Supply Kit	739254-B21
HP 1200W Common Slot Platinum Hot Plug Power Supply Kit	748287-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	503290-B21 512327-B21
LID Common Stat. 40VDC Bower Supplies	312321-D21



HP Common Slot -48VDC Power Supplies

636673-B21

697581-B21

730876-B21

QuickSpecs

Configuration Information - Factory Integrated Models

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

HP Common Slot 380VDC Power Supplies

HP 1200W Common Slot 380VDC Hot Plug Power Supply Kit

NOTE: The 1200W Common Slot 380VDC Hot Plug Power Supply Kit does not

include a power cord.

HP Common Slot 277VAC Power Supplies

HP 500W Common Slot 277VAC Hot Plug Power Supply Kit 717362-B21
HP 750W Common Slot 277VAC Hot Plug Power Supply Kit 717364-B21
HP 1200W Common Slot 277VAC Hot Plug Power Supply Kit 717359-B21

NOTE: The 1200W Common Slot 277VAC Hot Plug Power Supply Kit does not include a power cord. High voltage power cable option kits are sold separately.

HP Common Slot Titanium Power Supply Kits

NOTE: The following power supply offers 96% efficiency with support for HP Power Discovery Services.

HP 750W Common Slot Titanium Hot Plug Power Supply Kit

power cords please go to www.hp.com/products/powercords

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

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 Graphic Options NVIDIA GRID K1 PCIe GPU FIO Adapter

NOTE: Each of the HP DL380p Gen8 Dbl Wide GPU Cage Kit (728543-B21 &752803-B21) supports 1xK1. For 2 K1's to be supported you require the installation of the second processor, E5-2600v2 (only), and a 1200W Power

supply

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



E5Y43AAE

QuickSpecs

HP Insight Software

HP OneView

Configuration Information - Factory Integrated Models

for more rack kit choices.

HP 2U FIO Friction Rail Kit

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.

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

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

NOTE: The Electronic software license is available in EMEA only.

HP OneView for ProLiant DL Server incl 3yr 24x7 Supp FIO Bundle Physical 1
Svr Lic

Step 4: Choose Additional Options for Factory Integration

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

HP OneView incl 3yr 24x7 Supp Bundle 1 Svr E-LTU



Core Options				
NOTE: Some options n HP Unique Options	nay not be integrated at the factory. Contact your local sales representative for addition HP DL380p/560 Gen8 3 Slot PCI-E Riser Kit	653206-B21		
	HP DL380p/560 Gen8 2 Slot 2x16 PCI-E Riser Kit HP DL380p Gen8 Double Wide Graphic Processing Unit Drive Cage Kit NOTE: Kit is required to support cards greater than 9.5", in the secondary position only.	653208-B21 728543-B21		
	NOTE: Two 1200W Power supply kits and 2 processors are required for this riser			
	NOTE: This riser supports two single wide, or one double wide CPU option in the secondary riser position NOTE: The double wide riser cage kit is not supported in the 8LFF, 12LFF and 25SFF Configuration Servers.			
	HP DL380p Gen8 Double Wide Slot1 Riser Cage Kit NOTE: Kit is required to support cards greater than 9.5", in the primary position only, and supports one double wide card and a single PCI card in this riser. NOTE: This riser supports one single wide, or one double wide GPU option in the primary riser position NOTE: The double wide riser cage kit is not supported in the 8LFF, 12LFF and 25SFF Configuration Servers	752803-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 Processors	Entry Processors - E5-2600 v2 series Processors NOTE: All support up to 1333MHz memory speeds.			
	HP DL380p Gen8 Intel® Xeon® E5-2609v2 (2.5GHz/4-core/10MB/80W) Processor Kit	715222-B21		
	HP DL380p Gen8 Intel® Xeon® E5-2603v2 (1.8GHz/4-core/10MB/80W) Processor Kit	715223-B21		
	Base Processors - E5-2600 v2 series Processors NOTE: All support up to1600MHz DDR3 memory speeds.			
	HP DL380p Gen8 Intel® Xeon® E5-2640v2 (2.0GHz/8-core/20MB/95W) Processor Kit	715219-B21		
	HP DL380p Gen8 Intel® Xeon® E5-2630v2 (2.6GHz/6-core/15MB/80W) Processor Kit	715220-B21		
	HP DL380p Gen8 Intel® Xeon® E5-2620v2 (2.1GHz/6-core/15MB/80W) Processor Kit	715221-B21		
	HP DL380p Gen8 Intel® Xeon® E5-2650Lv2 (1.7GHz/10-core/25MB/70W) Processor Kit	715229-B21		
	HP DL380p Gen8 Intel® Xeon® E5-2630Lv2 (2.4GHz/6-core/15MB/60W) Processor Kit	715230-B21		
	Performance Processors - E5-2600 v2 series Processors NOTE: All support up to 1866MHz DDR3 memory speeds			
	HP DL380p Gen8 Intel® Xeon® E5-2697v2 (2.7GHz/12-core/30MB/130W) Processor Kit	715224-B21		



HP DL380p Gen8 Intel® Xeon® E5-2695v2 (2.4GHz/12-core/30MB/115W)

Processor Kit

715225-B21

Core Options

HP DL380p Gen8 Intel® Xeon® E5-2690v2 (3.0GHz/10-core/25MB/130W) Processor Kit	715214-B21			
HP DL380p Gen8 Intel® Xeon® E5-2680v2 (2.8GHz/10-core/25MB/115W) Processor Kit	715215-B21			
HP DL380p Gen8 Intel® Xeon® E5-2670v2 (2.5GHz/10-core/25MB/115W) Processor Kit	715216-B21			
HP DL380p Gen8 Intel® Xeon® E5-2667v2 (3.3GHz/8-core/25MB/130W) Processor Kit	715226-B21			
HP DL380p Gen8 Intel® Xeon® E5-2660v2 (2.2GHz/10-core/25MB/95W) Processor Kit	715217-B21			
HP DL380p Gen8 Intel® Xeon® E5-2650v2 (2.6GHz/8-core/20MB/95W) Processor Kit	715218-B21			
HP DL380p Gen8 Intel® Xeon® E5-2643v2 (3.5GHz/6-core/25MB/130W) Processor Kit	715227-B21			
HP DL380p Gen8 Intel® Xeon® E5-2637v2 (3.5GHz/4-core/15MB/130W) Processor Kit	715228-B21			
Entry Processors - E5-2600 series Processors				
NOTE: All support up to 1066MHz memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2609 (2.40GHz/4-core/10MB/80W) Processor	662252-B21			
Kit				
HP DL380p Gen8 Intel® Xeon® E5-2603 (1.80GHz/4-core/10MB/80W) Processor Kit	662254-B21			
Base Processors - E5-2600 series 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/60W) Processor Kit	675092-B21			
Performance Processors - E5-2600 series Processors				
NOTE: All support up to 1600MHz DDR3 memory speeds. HP DL380p Gen8 Intel® Xeon® E5-2690 (2.9GHz/8-core/20MB/135W) Processor	662226-B21			
Kit	002220-D21			
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			



Core Options

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 more performance upside than then previous generation turbo	
technology.	

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:

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

http://h18000.www1.hp.com/products/quickspecs/14225 div/14225 div.html NOTE: LRDIMM, RDIMM and UDIMM, are all distinct memory technologies and

cannot be mixed within a server. The majority of ProLiant Gen8 servers support LRDIMM, RDIMM and UDIMMs.

Low Voltage Memory Kit

Memory Kit

Registered DIMMs (RDIMMs) NOTE: The following memory is supported by the E5-2600 v2 series Processors.	
HP 4GB (1x4GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713981-B21
HP 4GB (1x4GB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit	708637-B21
HP 8GB (1x8GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713983-B21
HP 8GB (1x8GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	731765-B21
HP 8GB (1x8GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit	708639-B21
HP 8GB (1x8GB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit	731761-B21
HP 16GB (1x16GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11 Low Voltage Memory Kit	713985-B21
HP 16GB (1x16GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13 Memory Kit	708641-B21
Registered DIMMs (RDIMMs) NOTE: The following memory is supported by the E5-2600 series Processors.	
HP 4GB (1x4GB) Single Rank x4 PC3L-10600R (DDR3-1333) Registered CAS-9	647893-B21



HP 4GB (1x4GB) Single Rank x4 PC3-12800R (DDR3-1600) Registered CAS-11

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)	
NOTE: The following memory is supported by the E5-2600 v2 series Processors.	
HP 2GB (1x2GB) Single Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit	713975-B21
HP 2GB (1x2GB) Single Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory Kit	708631-B21
HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit	713977-B21
HP 4GB (1x4GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory Kit	708633-B21
HP 8GB (1x8GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit	713979-B21
HP 8GB (1x8GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13	708635-B21
Memory Kit	
•	
Unbuffered with ECC DIMMs (UDIMMs)	
Unbuffered with ECC DIMMs (UDIMMs) NOTE: The following memory is supported by the E5-2600 series Processors. HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11	669320-B21
Unbuffered with ECC DIMMs (UDIMMs) NOTE: The following memory is supported by the E5-2600 series Processors. HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9	669320-B21 647905-B21
Unbuffered with ECC DIMMs (UDIMMs) NOTE: The following memory is supported by the E5-2600 series Processors. HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit	
Unbuffered with ECC DIMMs (UDIMMs) NOTE: The following memory is supported by the E5-2600 series Processors. HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11	647905-B21
Unbuffered with ECC DIMMs (UDIMMs) NOTE: The following memory is supported by the E5-2600 series Processors. HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9	647905-B21 669322-B21
Unbuffered with ECC DIMMs (UDIMMs) NOTE: The following memory is supported by the E5-2600 series Processors. HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit HP 4GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-9	647905-B21 669322-B21 647907-B21
Unbuffered with ECC DIMMs (UDIMMs) NOTE: The following memory is supported by the E5-2600 series Processors. HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit	647905-B21 669322-B21 647907-B21 669324-B21
Unbuffered with ECC DIMMs (UDIMMs) NOTE: The following memory is supported by the E5-2600 series Processors. HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9	647905-B21 669322-B21 647907-B21 669324-B21
Unbuffered with ECC DIMMs (UDIMMs) NOTE: The following memory is supported by the E5-2600 series Processors. HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit Load Reduced DIMMs (LRDIMMs)	647905-B21 669322-B21 647907-B21 669324-B21
Unbuffered with ECC DIMMs (UDIMMs) NOTE: The following memory is supported by the E5-2600 series Processors. HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1600) Unbuffered CAS-9 Low Voltage Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit Load Reduced DIMMs (LRDIMMs) NOTE: The following memory is supported by the E5-2600 v2 series Processors. HP 32GB (1x32GB) Quad Rank x4 PC3-14900L (DDR3-1866) Load Reduced	647905-B21 669322-B21 647907-B21 669324-B21 647909-B21
Unbuffered with ECC DIMMs (UDIMMs) NOTE: The following memory is supported by the E5-2600 series Processors. HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit Load Reduced DIMMs (LRDIMMs) NOTE: The following memory is supported by the E5-2600 v2 series Processors. HP 32GB (1x32GB) Quad Rank x4 PC3-14900L (DDR3-1866) Load Reduced CAS-13 Memory Kit	647905-B21 669322-B21 647907-B21 669324-B21 647909-B21
Unbuffered with ECC DIMMs (UDIMMs) NOTE: The following memory is supported by the E5-2600 series Processors. HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit Load Reduced DIMMs (LRDIMMs) NOTE: The following memory is supported by the E5-2600 v2 series Processors. HP 32GB (1x32GB) Quad Rank x4 PC3-14900L (DDR3-1866) Load Reduced CAS-13 Memory Kit Load Reduced DIMMs (LRDIMMs)	647905-B21 669322-B21 647907-B21 669324-B21 647909-B21
Unbuffered with ECC DIMMs (UDIMMs) NOTE: The following memory is supported by the E5-2600 series Processors. HP 2GB (1x2GB) Single Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 2GB (1x2GB) Single Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3-12800E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 4GB (1x4GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1600) Unbuffered CAS-11 Memory Kit HP 8GB (1x8GB) Dual Rank x8 PC3L-10600E (DDR3-1333) Unbuffered CAS-9 Low Voltage Memory Kit Load Reduced DIMMs (LRDIMMs) NOTE: The following memory is supported by the E5-2600 v2 series Processors. HP 32GB (1x32GB) Quad Rank x4 PC3-14900L (DDR3-1866) Load Reduced CAS-13 Memory Kit Load Reduced DIMMs (LRDIMMs) NOTE: The following memory is supported by the E5-2600 series Processors. HP 32GB (1x32GB) Quad Rank x4 PC3L-10600L (DDR3-1333) Load Reduced	647905-B21 669322-B21 647907-B21 669324-B21 647909-B21 708643-B21



Core Options

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

NOTE: Depending on the memory configuration and processor model, 1600MHz and 1333MHz memory may operate at a lower speed. Please see the see the "Memory" section later in this document and the Online Memory Configuration Tool for details at: www.hp.com/go/ddr3memory-configurator.

NOTE: For additional memory rules and guidelines, see the "Memory" section later in this document.

NOTE: For more information on ProLiant Energy Efficient Features, see:

www.hp.com/go/proliant-energy-efficient **NOTE**: PC3L is a low voltage memory.

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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 Mobile USB Non Leaded System DVD RW Drive	701498-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.

NOTE: All 12G SAS Hard drives only operate at 6G speeds in the DL380pGen8

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

HP 600GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759212-B21
HP 450GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759210-B21
HP 300GB 12G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	759208-B21
6G SAS Hot Plug with SmartDrive SFF (2.5-inch) Enterprise Drives	
HP 1.2TB 6G SAS 10K rpm SFF (2.5-inch) SC Dual Port Enterprise 3yr Warranty Hard Drive	718162-B21
HP 900GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652589-B21
HP 600GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652583-B21
HP 450GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652572-B21
HP 300GB 6G SAS 10K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652564-B21
HP 300GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652611-B21



HP 146GB 6G SAS 15K rpm SFF (2.5-inch) SC Enterprise 3yr Warranty Hard Drive	652605-B21
6G SAS Hot Plug SmartDrive SFF (2.5-inch) Midline Drives	
HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652749-B21
HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	652745-B21
12G SAS Hot Plug SmartDrive LFF (3.5-inch) Converter Enterprise Drives	
HP 600GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	765424-B21
HP 450GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737394-B21
HP 300GB 12G SAS 15K rpm LFF (3.5-inch) SC Converter Enterprise 3yr Warranty Hard Drive	737261-B21
6G 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
6G SAS Hot Plug SmartDrive LFF (3.5-inch) Midline Drives	
HP 6TB 6G SAS 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	761477-B21
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)	
6G SATA Hot Plug with SmartDrive SFF (2.5-inch) Midline (MDL) Drives	
HP 1TB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655710-B21
HP 500GB 6G SATA 7.2K rpm SFF (2.5-inch) SC Midline 1yr Warranty Hard Drive	655708-B21
6G SATA Hot Plug with SmartDrive LFF (3.5-inch) Midline (MDL) Drives	
HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	753874-B21
HP 4TB 6G SATA 7.2k rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	693687-B21
HP 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)	
12G SAS High Endurance Hot Plug SFF (2.5-inch) Enterprise Performance Solid State Drives	
HP 800GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr	741159-B21
Wty Solid State Drive	



HP 400GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty Solid State Drive	741155-B21
HP 200GB 12G SAS High Endurance SFF 2.5-in SC Enterprise Performance 3yr Wty Solid State Drive	741151-B21
12G SAS Mainstream Endurance Hot Plug SFF (2.5-inch) Enterprise	
Mainstream Solid State Drives	
HP 800GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise	741146-B21
Mainstream 3yr Wty Solid State Drive	7 111110 521
HP 400GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise	741142-B21
Mainstream 3yr Wty Solid State Drive	
HP 200GB 12G SAS Mainstream Endurance SFF 2.5-in SC Enterprise	741138-B21
Mainstream 3yr Wty Solid State Drive	
12G SAS VE SFF (2.5-inch) SC EV Solid State Drives	
HP 1.6TB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty	762263-B21
Solid State Drive	
HP 800GB 12G SAS Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty	762261-B21
Solid State Drive	
12G SAS VE LFF (3.5-inch) SCC EV Solid State Drives	
HP 1.6TB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty	762272-B21
Solid State Drive	
HP 800GB 12G SAS Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty	762270-B21
Solid State Drive	
6G SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Boot Solid	
State Drives	
HP 120GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty	717965-B21
Solid State Drive	
HP 80GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Boot 3yr Wty	734360-B21
Solid State Drive	
6G SATA Value Endurance Hot Plug LFF (3.5-inch) Enterprise Boot Solid	
State Drives	
HP 120GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty	718171-B21
Solid State Drive	
HP 80GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Boot 3yr Wty Solid	734362-B21
State Drive	
6G SATA Value Endurance Hot Plug SFF (2.5-inch) Enterprise Value Solid State Drives	
	747070 004
HP 800GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717973-B21
	747074 D04
HP 480GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	717971-B21
Solid State Drive	
UD 600CD 6C SATA Value Endurance SEE 2.5 in SC Enterprise Value 2vr Why	720000 D21
HP 600GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739898-B21
Solid State Drive	
Solid State Drive HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty	739898-B21 739888-B21
Solid State Drive HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty Solid State Drive	739888-B21
Solid State Drive HP 300GB 6G SATA Value Endurance SFF 2.5-in SC Enterprise Value 3yr Wty	



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6G SATA Value Endurance Hot Plug LFF (3.5-inch) Enterprise Value Solid State Drives	
HP 800GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718189-B21
HP 600GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	739900-B21
HP 480GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718183-B21
HP 300GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	739890-B21
HP 240GB 6G SATA Value Endurance LFF 3.5-in SC Enterprise Value 3yr Wty Solid State Drive	718177-B21
6G SATA 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 LFF (3.5-inch) Enterprise Mainstream Solid State	
Drives	
HP 800GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691860-B21
HP 400GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691856-B21
HP 200GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691854-B21
HP 100GB 6G SATA Mainstream Endurance LFF 3.5-in SC Enterprise Mainstream 3yr Wty Solid State Drive	691852-B21
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 Small Form Factor Hard Drive Blank Kit	666987-B21
HP Large Form Factor Hard Drive Blank Kit	666986-B21
HP DL380/DL385 Gen8 8 Small Form Factor Hard Drive Backplane Cage Kit NOTE: With upgrade of 8SFF Cage/Bkpln (662883-B21), there is no Optical Drive	662883-B21
NOTE: All cables necessary for proper installation of the 8SFF Cage are included	
with this Kit. NOTE: With upgrade of 8SFF Cage/Bkpln (662883-B21), an additional storage	



Core Options

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 speking to have

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

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 Ethernet 10Gb 2-port 561T Adapter	716591-B21
HP NC552SFP 10Gb 2-port Ethernet Server Adapter	614203-B21
HP Ethernet 10Gb 2-port 570SFP+ Adapter	718904-B21
HP Ethernet 10Gb 2-port 571SFP+ Adapter	728987-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 FlexFabric 10Gb 2-port 526FLR-SFP+ Adapter	629138-B21
HP Ethernet 10Gb 2-port 530FLR-SFP+ Adapter	647581-B21



Core Options		
	HP FlexFabric 10Gb 2-port 533FLR-T Adapter	700759-B21
	HP FlexFabric 10Gb 2-port 534FLR-SFP+ Adapter	700751-B21
	HP FlexFabric 10Gb 2-port 554FLR-SFP+ Adapter	629142-B21
	HP Ethernet 10Gb 2-port 560FLR-SFP+ Adapter	665243-B21
	HP Ethernet 10Gb 2-port 561FLR-T Adapter	700699-B21
	HP Ethernet 10Gb 2-port 570FLR-SFP+ Adapter	717491-B21
	HP Ethernet 10Gb 2-port 571FLR-SFP+ Adapter	728992-B21
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information: www.hp.com/go/ProLiantNICs	
HP InfiniBand	QLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA	583211-B21
	HP InfiniBand 4X QDR ConnectX-2 PCIe G2 Dual Port HCA	592520-B21
	HP Infiniband FDR/Ethernet 10Gb/40Gb 2-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/Ethernet 10Gb/40Gb 2-port 544FLR-QSFP Adapter	649282-B21
	HP Infiniband QDR/Ethernet 10Gb 2-port 544FLR-QSFP Adapter	649283-B21
	HP InfiniBand FDR 2-port 545QSFP Adapter	702211-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	HP DL380p/560 Gen8 3 Slot PCI-E Riser Kit	653206-B21
Options	HP DL380p/560 Gen8 2 Slot 2x16 PCI-E Riser Kit	653208-B21
	HP DL380p Gen8 Double Wide Graphic Processing Unit Drive Cage Kit NOTE: Kit is required to support cards greater than 9.5", in the secondary position only.	728543-B21
	NOTE: Two 1200W Power supply kits and 2 processors are required for this riser NOTE: This riser supports two single wide, or one double wide CPU option in the secondary riser position NOTE: The double wide riser cage kit is not supported in the 8LFF, 12LFF and 25SFF Configuration Servers.	
	HP DL380p Gen8 Double Wide Slot1 Riser Cage Kit	752803-B21
	NOTE: Kit is required to support cards greater than 9.5", in the primary position only, and supports one double wide card and a single PCI card in this riser. NOTE: This riser supports one single wide, or one double wide GPU option in the primary riser position NOTE: The double wide riser cage kit is not supported in the 8LFF, 12LFF and 25SFF Configuration 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.	707865-B21



Core Options

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 Platinum Power Supply Kits

NOTE: The following Power Supplies offer 94% efficiency to save on energy costs. HP Common Slot Platinum Power Supplies do not support Power Discovery Services and ship with a standard AC power connector.

HP 460W Common Slot Platinum Hot Plug Power Supply Kit	739252-B21
HP 750W Common Slot Platinum Hot Plug Power Supply Kit	739254-B21
HP 1200W Common Slot Platinum Hot Plug Power Supply Kit	748287-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

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

HP Common Slot 380VDC Power Supplies

QuickSpecs

··	
HP 1200W Common Slot 380VDC Hot Plug Power Supply Kit	684539-B21
NOTE: The 1200W Common Slot 380VDC Hot Plug Power Supply Kit does not	
include a power cord.	

HP Common Slot 277VAC Power Supplies

HP 500W Common Slot 277VAC Hot Plug Power Supply Kit	717362-B21
HP 750W Common Slot 277VAC Hot Plug Power Supply Kit	717364-B21
HP 1200W Common Slot 277VAC Hot Plug Power Supply Kit	717359-B21

NOTE: The 1200W Common Slot 277VAC Hot Plug Power Supply Kit does not include a power cord. High voltage power cable option kits are sold separately.

HP Common Slot Titanium Power Supply Kits

NOTE: The following power supply offers 96% efficiency with support for HP Power Discovery Services.

HP 750W Common Slot Titanium Hot Plug Power Supply Kit 697581-B21



636673-B21

Core Options

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/guickspecs/14209 div/14209 div.html

HP Computation and Graphics Accelerators

NOTE: Each DL380pGen8 server will accommodate up to three single-width or two double width NVIDIA Quadro PCIe cards for high-end Quadro graphics, up to two NVIDIA GRID PCIe cards for virtual desktop graphics or up to two NVIDIA Tesla PCIe cards or Intel Xeon Phi Coprocessors for accelerated high performance computing.

NOTE: For two double wide Graphics cards both double wide risers, and the 1200W PS are required.

NOTE: The NVIDIA K1 (730876-B21) is available as a FIO only option

HP 150W PCI-E Power Cable Kit 669777-B21 HP 225W PCIe Power Cable Kit 728539-B21 757156-B21 HP PCle 10pin to 2x6pin Power Cable NVIDIA Quadro K2000 PCIe Graphics Adapter 753959-B21

NOTE: This is supported in the 728543-B21 riser in the secondary position (second processor required) or in the 752803-B21, primary position. Maximum 3 supported with both risers, 2 in the secondary position.

NVIDIA Quadro K4000 PCI-E Graphics Adapter

NOTE: 1xK4000 is supported in the primary position with the riser 653206-B21, or in the secondary position with the riser 662885-B21 Requires the 150W cable (669777-B21)

NOTE: 2xK4000 are supported in the secondary position with the riser 653208-B21 or 728543-B21 Requires the 225W Y cable 6p x 6p (757156-B21) NOTE: To support 3xK4000 both the primary riser (653206-B21) and the secondary riser is required (653208-B21, 662885-B21 or 728543-B21) - Would

require both the 150W 9669777-B21) and the 225W Cable (757156-B21)

NVIDIA Quadro K5000 PCI-E Graphics Adapter

730872-B21

NOTE: This is supported with the Intel, E5-2600v2 processor series only. NOTE: This is supported in the 728543-B21 riser in the secondary position (second processor required) or in the 752803-B21, primary position. Maximum 2 supported with both risers, support for 2 cards requires the 1200W PS (717359-B21) to be selected

NVIDIA Quadro K6000 PCI-E Graphics Adapter

NOTE: This is supported with the Intel, E5-2600v2 processor series only. **NOTE:** This is supported in the 728543-B21 riser in the secondary position (second processor required) or in the 752803-B21, primary position. Maximum 2 supported with both risers, support for 2 cards requires the 1200W PS (717359-B21) to be selected.



730870-B21

730874-B21

Core Options

NVIDIA GRID K2 Reverse Air Flow Dual GPU PCIe Graphics Accelerator

NOTE: This is supported with the Intel, E5-2600v2 processor series only.

NOTE: This is supported in the 728543-B21 riser in the secondary position (second processor required) or in the 752803-B21, primary position. Maximum 2 supported with both risers, support for 2 cards requires the 1200W PS (717359-B21) to be selected.

NVIDIA Tesla K40C 12GB Computational Accelerator

753960-B21

NOTE: This is supported with the Intel, E5-2600v2 processor series only. **NOTE:** This is supported in the 728543-B21 riser in the secondary position (second processor required) or in the 752803-B21, primary position. Maximum 2 supported with both risers, support for 2 cards requires the 1200W PS (717359-B21) to be selected.

Intel® Xeon® Phi 5110P (8GB/225W) Coprocessor Kit

C1P87A

NOTE: This is supported with the Intel, E5-2600v2 processor series only. **NOTE:** This is supported in the 728543-B21 riser in the secondary position (second processor required) or in the 752803-B21, primary position. Maximum 2 supported with both risers, support for 2 cards requires the 1200W PS (717359-B21) to be selected.



C6N27A

C6N31A

E6U59ABE

E6U64ABE

BD505A

QuickSpecs

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.

HP Insight Control

HP Insight Control including 1yr 24x7 Technical Support and Updates Single

Server License

HP Insight Control including 1yr 24x7 Technical Support and Updates Electronic C6N28ABE

License

NOTE: The Electronic software license is available in EMEA only.

HP Insight Control Server Provisioning Media Kit BD883A

HP Insight Management Media Kit

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 E-LTU

NOTE: The Electronic software license is available in EMEA only.

HP iLO Advanced including 3yr 24x7 Technical Support and Updates E-LTU

NOTE: The Electronic software license is available in EMEA only.

HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single 512485-B21

Server 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



Additional Options

Converged
Infrastructure
Management Softwar

HP OneView

HP OneView with iLO Advanced

HP OneView Media Kit Phys No Lic E5Y37A
HP OneView incl 3yr 24x7 Supp Phys 1 Svr Lic E5Y34A
HP OneView incl 3yr 24x7 Supp Flex Qty E-LTU E5Y35AAE

HP OneView without iLO Advanced

HP OneView w/o iLO Adv incl 3yr 24x7 Supp Phys 1 Svr Lic E5Y38A
HP OneView w/o iLO Adv inc 3yr 24x7 Supp Flex Qty E-LTU E5Y39AAE

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

http://h18000.www1.hp.com/products/quickspecs/14621_div/14621_div.html (Worldwide)

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

NOTE: For additional license kits please see the QuickSpecs at: http://h18004.www1.hp.com/products/quickspecs/12612_div/12612_div.html

HP I/O Accelerator Options

Second Generation Accelerators

HP 365GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers

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

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

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

HP PCIe Workload Accelerator Options

Mainstream Endurance (ME) PCIe Workload Accelerators

HP 1.4TB HH/HL Mainstream Endurance (ME) PCIe Workload Accelerator 729307-B21
HP 700GB HH/HL Mainstream Endurance (ME) PCIe Workload Accelerator 729305-B21

High Endurance (HE) PCIe Workload Accelerators

HP 700GB HH/HL High Endurance (HE) PCIe Workload Accelerator HP 350GB HH/HL High Endurance (HE) PCIe Workload Accelerator

Light Endurance (LE) PCle Workload Accelerators

708090-B21

708088-B21



BD477A

Additional Options

HP 5.2TB FH/HL Light Endurance (LE) PCIe Workload Accelerator	775672-B21
HP 2.6TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775670-B21
HP 1.3TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775668-B21
HP 1.0TB HH/HL Light Endurance (LE) PCIe Workload Accelerator	775666-B21

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

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

488069-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

NOTE: If a P421 controller is selected for the 12LFF model, it cannot be populated in slot 1.

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 P430 Controller

NOTE: If a P430 controller is selected for any model, it cannot be populated in slots 3 or 4.

HP Smart Array P430/2GB FBWC 12Gb 1-port Int SAS Controller 698529-B21 HP Smart Array P430/4GB FBWC 12Gb 1-port Int SAS Controller 698530-B21

Smart Array P431 Controller

HP Smart Array P431/2GB FBWC 12Gb 2-ports Ext SAS Controller 698531-B21



Additional Options

HP Smart Array P431/4GB FBWC 12Gb 2-ports Ext SAS Controller	698532-B21
Smart Array P822 Controller	
NOTE: If a P822 controller is selected for the 12LFF or 25SFF model, it cannot be populated in slot 3.	
HP Smart Array P822/2GB FBWC 6Gb 2-ports-Int/4-ports Ext SAS Controller 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.	615418-B21
Smart Array P830 Controller	
HP Smart Array P830/4GB FBWC 12Gb 2-ports Int SAS Controller	698533-B21
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 DL38Xp Gen8 8 Large Form Factor (LFF) P430/830 Cable Kit	729270-B21
HP DL38Xp Gen8 12 Large Form Factor (LFF) P430/830 Cable Kit	729272-B21
HP DL38Xp Gen8 25 Small Form Factor (SFF) P430/830 Cable Kit	729274-B21
HP 6G SAS P430/830 Secondary Cable Kit	729276-B21
HP 6G SAS P430/830 Primary Cable Kit	729278-B21
HP Mini SAS/Straight to Straight Offset Bypass Cable Assembly	697611-B21
HP Mini SAS/Straight to Straight Short Bypass Cable Assembly	697691-B21
HP Mini SAS/Straight to Straight 25 SFF Bypass Cable Assembly	726974-B21
HP SmartCache No Media 24x7 Technical Support 1 Svr License	D7S26A
HP SmartCache No Media 24x7 Technical Support Flexible License	D7S27A
HP SmartCache No Media 24x7 Technical Support Electronic License	D7S27AAE
HP Secure Encryption No Media Flexible License per Drive	D8S84A
HP Secure Encryption No Media E-LTU per Drive	D8S85AAE
HP Cable Options	DOGGSAAL
HP Mini SAS Straight to Straight 37in Cable Assembly	662897-B21
NOTE: Please see the QuickSpecs for Technical Specifications and additional	002097-621
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/14624_div/14624_div.html	
(Smart Array P430 Controller) http://h18000.www1.hp.com/products/quickspecs/14625_div/14625_div.html	
(Smart Array P431 Controller)	
http://h18000.www1.hp.com/products/quickspecs/14341_div/14341_div.html	
(Smart Array P822 Controller)	
http://h18000.www1.hp.com/products/quickspecs/14744_div/14744_div.html (Smart Array P830 Controller)	
http://h18000.www1.hp.com/products/quickspecs/14532_div/14532_div.html	
(SmartCache)	



Additional Options

http://h18000.www1.hp.com/products/quickspecs/14623_div/14623_div.html (Secure Encryption)

Host Bus Adapter

 HP H220 Host Bus Adapter
 650933-B21

 HP H221 PCIe 3.0 SAS Host Bus Adapter
 729552-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)

HP Disk Enclosures

HP D3600 Enclosure

QW968A

NOTE: See the D3000 Disk Enclosure QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at:

http://www8.hp.com/h20195/v2/GetDocument.aspx?docname=c04227611

HP D3700 Enclosure

QW967A

NOTE: See the D3000 Disk Enclosure QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at:

http://www8.hp.com/h20195/v2/GetDocument.aspx?docname=c04227611

HP D2600 Disk Enclosure

AJ940A

NOTE: See the D2000 Disk Enclosure QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at:

http://h18000.www1.hp.com/products/quickspecs/13404_div/13404_div.html (Worldwide)

HP D2700 Disk Enclosure

AJ941A

NOTE: See the D2000 Disk Enclosure QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at:

http://h18000.www1.hp.com/products/quickspecs/13404_div/13404_div.html (Worldwide)

HP D6000 Dual I/O Module Disk Enclosure

QQ695A

NOTE: See the D6000 Disk Enclosure QuickSpecs for additional information including configuration steps and additional options needed for a complete solution at:

http://h18000.www1.hp.com/products/quickspecs/14419_div/14419_div.pdf



Additional Options

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	AF565/
	HP C13 - DK-2.5A DK 250V 10Amp 1.83m Power Cord	AF 566/
	HP C13 - CEE-VII EU 250V 10Amp 1.83m Power Cord	AF568/
	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	AF570A
	HP C13 - SABS-164 ZA 250V 10Amp 2.5m Power Cord	AF567/
	HP C13 - Nema 6-15P US 250V 15A JP 3.6m Power Cord	A0N33/
	HP C13 - Nema 5-15P US/CA 110V 10Amp 1.83m Power Cord	AF556 <i>A</i>
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	C0L99A
	HP StoreEver LTO-6 Ultrium 6650 SAS Internal Tape Drive	EH963A
	HP StoreEver LTO-6 Ultrium 6650 SAS External Tape Drive	EH964 <i>A</i>
	HP StoreEver LTO-6 Ultrium 6250 Internal Tape Drive	EH969A
	HP StoreEver LTO-6 Ultrium 6250 External Tape Drive	EH970 <i>A</i>
	HP StoreEver 1/8 G2 LTO-6 Ultrium 6250 FC Tape Autoloader	C0H19/
HP Tape Storage	HP StoreEver MSL6480	
Systems	HP StoreEver MSL6480 Scalable Base Module	QU625A
	NOTE: Please see the QuickSpecs for Technical Specifications and additional information:	
	http://h18000.www1.hp.com/products/quickspecs/14604_div/14604_div.html (Worldwide)	



Additional Options

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 External Disk Backup System	B7B66A
HP RDX1000 USB3.0 External Disk Backup System	B7B69A
HP RDX 2TB USB3.0 External Disk Backup System	E7X53A
HP RDX USB 3.0 External Docking Station	C8S07A

HP RDX Removable Disk Backup Systems USB

HP RDX1000 USB3.0 Gen8 DL Server Module B7B70A HP RDX USB 3.0 Gen8 DL Server Module Docking Station C8S08A

NOTE: RDX Gen8 DL Server Module is only compatible with Servers that have the

8-SFF HDD Bay Configurations.

NOTE: Please see the QuickSpecs for additional part numbers, Technical

Specifications, and additional information:

http://h18000.www1.hp.com/products/quickspecs/13036 div/13036 div.html

(Worldwide)

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
	A 1700D

HP 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter AJ763B HP StoreFabric SN1100E 16Gb Single Port Fibre Channel Host Bus Adapter **C8R38A** HP StoreFabric SN1100E 16Gb Dual Port Fibre Channel Host Bus Adapter C8R39A

QLogic Fibre Channel HBAs

HP 81Q 8Gb 1-port PCle Fibre Channel Host Bus Adapter	AK344A
HP 82Q 8Gb 2-port PCle Fibre Channel Host Bus Adapter	AJ764A
HP StoreFabric SN1000Q 16GB 1-port PCle Fibre Channel Host Bus Adapter	QW971A
HP StoreFabric SN1000Q 16GB 2-port PCle Fibre Channel Host Bus Adapter	QW972A

Converged Network Adapter

converged Notwork / tauptor	
HP CN1100E Dual Port Converged Network Adapter	BK835A
HP CN1000Q Dual Port Converged Network Adapter	BS668A
HP StoreFabric CN1100R Dual Port Converged Network Adapter	QW990A



Additional Options

HP Uninterruptible Power Systems

HP Rack-mountable UPS

HP R1500 G3 Uninterruptible Power Supply (UPS)

HP R1.5kVA G3 1U NA Uninterruptible Power System

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 AF468A
System

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

HP R5KVA 3U L630 High Voltage NA/JP Uninterruptible Power System

AF460A

NOTE: Please see the QuickSpecs for additional information:

http://h18000.www1.hp.com/products/quickspecs/14109_div/14109_div.html (Worldwide)

R7000 Uninterruptible Power System (UPS)

HP R7KVA 4U 50A High Voltage NA/JP Uninterruptible Power System

AF462A

HP R7KVA 4U IEC-32A High Voltage INTL Uninterruptible Power System

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.



Additional Options

HP Basic Power Distribution Units (bPDU)

HP Basic Power Distribution Unit: 1U/0U Version	
HP 1.9kVA 120 Volt L5-20 Input (12xNEMA 5-20R) NA/JP Basic PDU	H5M54A
HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Basic PDU	H5M56A
HP Basic Power Distribution Unit: Half Height Version	
HP 2.8kVA 120 Volt L5-30 Input (18xNEMA 5-20R) NA/JP Basic PDU	H5M55A
HP 3.6kVA 200-240 Volt Detachable C20 Input (18xC13) WW Basic PDU	H5M57A
HP 4.9kVA 208 Volt L6-30 Input (20xC13) NA/JP Basic PDU	H5M58A
HP 7.3kVA 230 Volt IEC309 32A Input (20xC13) INTL Basic PDU	H5M68A
HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13) NA/JP Basic PDU	H5M61A
HP Basic Power Distribution Unit: Mid Height Version	
HP 4.9kVA 208 Volt L6-30 Input (24xC13/6xC19) NA/JP Basic PDU	H5M59A
HP 7.3kVA 230 Volt IEC309 32A Input (24xC13/6xC19) INTL Basic PDU	H5M70A
HP 8.3kVA 208 Volt CS8265C Input (30xC13/6xC19) NA/JP Basic PDU	H5M60A
HP 11kVA 230 Volt IEC309 63A Input (30xC13/6xC19) INTL Basic PDU	H5M71A
HP Hardwired 200-240 Volt Input (30xC13/6xC19) WW Basic PDU	H5M75A
HP 5.7kVA 208 Volt L21-20 3-Phase Input (24xC13/3xNEMA 5-20R) NA/JP Basic PDU	H5M63A
HP 8.6kVA 208 Volt L21-30 3-Phase Input (24xC13/3xC19/3xNEMA 5-20R) NA/JP Basic PDU	H5M64A
HP 8.6kVA 208 Volt L15-30 3-Phase Input (24xC13/6xC19) NA/JP Basic PDU	H5M62A
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/6xC19) INTL Basic PDU	H5M72A
HP Basic Power Distribution Unit: Full Height Version	
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (36xC13/6xC19) INTL Basic PDU	H5M73A
HP 11kVA 400 Volt IEC309 30A 3-Phase Input (36xC13/6xC19) NA Basic PDU	H5M67A
HP Basic Power Distribution Unit: 480/277 Volt Version	
HP 13.2kVA 480 Volt IEC309 30A 3-Phase Input (15 Outlet) NA Basic PDU	H3X07A
HP 19.9kVA 480 Volt IEC309 30A 3-Phase Input (30 Outlet) NA Basic PDU	H3X08A
HP 277 Volt options for H3X07A and H3X08A	
HP 800VA - 277V Input / 230V Output NA Rack Mount Transformer	H3X09A
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.	

Power Distribution Units (mPDU)

HP Remote Monitoring HP Remote Monitored Power Distribution Unit: 1U Version HP 2.8kVA 120 Volt L5-30 Input (12xNEMA 5-20R)NA/JP Monitored PDU **D9N43A** HP 3.6kVA 200-240 Volt Detachable C20 Input (12xC13) WW Monitored PDU D9N46A HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU D9N44A **HP Remote Monitored Power Distribution Unit: Half Height Version** HP 3.6kVA 200-240 Volt Detachable C20 Input (16xC13) WW Monitored PDU D9N45A HP 4.9kVA 208 Volt L6-30 Input (12xC13) NA/JP Monitored PDU G9Z05A



Additional Options

HP 7.3kVA 230 Volt IEC309 32A Input (12xC13) INTL Monitored PDU	G9Z06A
HP Remote Monitored Power Distribution Unit: Mid Height Version	0020071
HP 4.9kVA 208 Volt L6-30 Input (20xC13/4xC19) NA/JP Monitored PDU	D9N47A
HP 7.3kVA 230 Volt IEC309 32A Input (20xC13/4xC19) INTL Monitored PDU	D9N48A
HP 8.6kVA 208 Volt L15-30 3-Phase Input (18xC13/3xC19) NA/JP Monitored PDU	D9N51A
HP 5.7kVA 208 Volt L21-20 3-Phase Input (18xC13/3xNEMA 5-20R) NA/JP Monitored PDU	D9N52A
HP 8.6kVA 208 Volt L21-30 3-Phase Input (20xC13/3xC19/3xNEMA 5-20R) NA/JP Monitored PDU	D9N53A
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (18xC13/3xC19) INTL Monitored PDU	D9N55A
HP Remote Monitored Power Distribution Unit: Full Height Version	
HP 8.3kVA 208 Volt CS8265C Input (30xC13/3xC19) NA Monitored PDU	D9N49A
HP 7.3kVA 230 Volt IEC309 32A Input (32xC13/4xC19) INTL Monitored PDU	D9N50A
HP 11kVA 400 Volt IEC309 16A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU	D9N57A
HP 14.4kVA 208 Volt CS8365C 3-Phase Input (12xC13/12xC19)NA Monitored PDU	D9N58A
HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (30xC13/3xC19) NA Monitored PDU	D9N61A
HP 16.6kVA 400 Volt IEC309 30A 3-Phase Input (12xC13/12xC19) NA Monitored PDU	D9N62A
HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (24xC13/3xC19) NA/JP Monitored PDU	D9N54A
HP 17.3kVA 208 Volt IEC309 60A 3-Phase Input (12xC13/12xC19) NA/JP Monitored PDU	D9N59A
HP 17.3kVA 208 Volt IEC309 60A 3-Phase Watertight Input (12xC13/12xC19) NA/JP Monitored PDU	G9Z07A
HP 19.9kVA 480 Volt 3-Phase (30 Outlet) NA Monitored PDU	D9N63A
HP 22kVA 400 Volt IEC309 32A 3-Phase Input (30xC13/3xC19) INTL Monitored PDU	D9N56A
HP 22kVA 400 Volt IEC309 32A 3-Phase Input (12xC13/12xC19) INTL Monitored PDU	D9N60A
HP 22kVA 400 Volt IEC309 32A 3-Phase Watertight Input (12xC13/12xC19) INTL Monitored PDU	G9Z08A
HP Environmental Sensor for Remote Monitored PDUs	
HP Environmental Sensor for Remote Monitored PDUs	E2D53A
NOTE: Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14669_div/14669_div.html (Worldwide)	



Additional Options

HP Intelligent Power Distribution Units (iPDU)

il	P	ח	П	П	C	^	re	H	n	ite

iPDU Core Units	
HP 4.9kVA 24A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF520A
HP 8.3kVA 40A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF521A
HP 8.6kVA 24A Three Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF522A
HP 14.4kVA 40A Three Phase NA/JP Intelligent Modular Power Distribution Unit	AF533A
HP 17.3kVA 48A Three Phase NA/JP Core Intelligent Modular Power Distribution Unit	AF523A
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
HP 22kVA 32A Three Phase INTL Core Intelligent Modular Power Distribution Unit	AF527A
HP 17.3kVA 48A 208V Three Phase 12 Outlet Core NA/JP Intelligent Power Distribution Unit	AF535A
HP 17.3kVA 24A 415V Three Phase 12 Outlet Core NA/JP Intelligent Power Distribution Unit	AF537A
HP 22kVA 32A 400V Three Phase 12 Outlet Core INTL Intelligent Power Distribution Unit	AF538A
iPDU Kits with Standard Extension Bars	
HP 4.9kVA 24A Single Phase NA/JP Intelligent Modular Power Distribution Kit	AF531A
HP 8.6kVA 24A Three Phase NA/JP Intelligent Modular Power Distribution Kit	AF532A
HP 7.3kVA 32A Single Phase INTL Intelligent Modular Power Distribution Kit	AF534A
iPDU Extension Bars	
HP 5xC13 Intelligent PDU Extension Bar G2 Kit	AF547A
HP 5xC13 Outlets Power and UID LEDs Pair Standard Extension Bar	AF528A
NOTE: Please see the 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.	
www.mp.com/go/rackanapower.	

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



Additional Options

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 HP Rack Cabinets, please see the following URL: http://www.hp.com/go/rackandpower.

	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)						
	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					
	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

Additional Options

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
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)	
Rail 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	



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

the server to help you with the installation of your Gen8 server.

Additional Options

without a rail kit.

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

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 Large Form Factor Ball Bearing Gen8 Rail Kit with CMA	663480-B21
HP 2U Small Form Factor Ball Bearing Gen8 Rail Kit with CMA	663478-B21
HP 2U Small Form Factor Ball Bearing Rail Kit	720863-B21
HP 2U Large Form Factor Ball Bearing Rail Kit	720864-B21
HP 2U Cable Management Arm for Ball Bearing Rail Kit	720865-B21
HP 2U Small Form Factor Easy Install Rail Kit	733660-B21
HP 2U Large Form Factor Easy Install Rail Kit	733662-B21
HP 2U Cable Management Arm for Easy Install Rail Kit	733664-B21
HP 2U Small Form Factor Easy Install Rail Kit with CMA	733668-B21
HP 2U Large Form Factor Easy Install Rail Kit with CMA	733670-B21

HP USB and SD options

HP Flash Media Kits for USB Drives

NOTE: HP qualified blank USB key for use with HP ProLiant servers that support the VMware virtualization environment and other HP value-add software. 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.

HP 8GB USB Enterprise Mainstream Flash Media Drive Key Kit	737953-B21
HP Enterprise Mainstream Flash Media Kits for Memory Cards	
HD 9CB SD Enterprise Mainetream Flach Modia Kit	726113 B21

HP 8GB SD Enterprise Mainstream Flash Media Kit 726113-B21
HP 32GB SD Enterprise Mainstream Flash Media Kit 700136-B21

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

http://h18000.www1.hp.com/products/quickspecs/13971_div/13971_div.html

HP USB Standard Keyboard DT528A ABA DT528A#ABA



Additional Options

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.

·	
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)	U2Z53E
Proactive Care Service	
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

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



Memory

HP SmartMemory

New HP SmartMemory now provides additional protection for your servers. With HP Authentication it can verify that you have true HP Qualified Memory in your HP ProLiant Gen8 server. With HP SmartMemory your new HP ProLiant server can take advantage of additional Gen8 enhancements in performance, durability and future manageability support through HP Active Health System

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 or E5-2600 v2 family processor socket contains four memory channels that support three DIMMs each for a total of twelve (12) DIMMs 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 max memory (for Best Speed (1600MHz) run 2 DIMMs per channel or 16 DIMM slots x 16GB per DIMM = 256GB).

Memory population guidelines DIMM configuration NOTE: This information is only for Advanced EEC memory mode. See the user guide for other memory modes. Ch 2 Ch 1 Ch2 Ch1 || Ch3 Ch4 Key: Alpha - population order CGKDH Numeric - DIMM slot ID for spare replacement 1. Before installing DIMMs, review the population rules Do not install DIMMs if the corresponding processor is not installed. . When two processors are installed, balance the DIMMs across the two processors DIMM slots that are white denote the first slot of a channel (Ch 1-A, Ch 2-B, Ch 3-C, Ch 4-D...). . Do not mix UDIMMs, RDIMMs, or LRDIMMs. Do not install more than two UDIMMs per channel. UDIMMs should be installed in slots Ch 1-I, Ch 2-J, Ch 3-K, Ch 4-L. 2. When two processors are installed, install DIMMs in dequential alphabetical order balanced between the two processors: P1-A P2-A P1-B P2-B P1-C P2-C 3. For DIMM spare replacement, install the DIMMs per slot number as instructed by your system software. For additional DIMM information, see the user guide at: hp.com > support & drivers > product support & 7 8 9101112 789101112 123456 23456 troubleshooting > enter your product

General Memory Population Rules and Guidelines:

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



Memory

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.

	J W W W W W W W W W W	iory Du						3 7(0011)	® E5-2600 v	2 00110					
DIMM Type ->	Register DIMM							Load Reduced (LRDIMMs)							
DIMM			Dual	Dual	Single	Single	Dual	Dual							
Rank ->	Single	Rank	Rank	Rank	Rank	Rank	Rank	Rank	Quad	Single	Rank				
	(1	R)	(2R)	(2R)	(1R)	(1R)	(2R)	(2R)	Rank (4R)	(1	R)		Dual Ra	nk (2R	
DIMM Capacity ->	4GB	4GB	8GB	8GB	8GB	8GB	16GB	16GB	32GB	2GB	2GB	4GB	4GB	8GB	8GB
DIMM Native Speed (MT/s) -	1600	1866	1600	1866	1600	1866	1600	1866	1866	1600	1866	1600	1866	1600	1866
Voltage	LV	Std	LV	Std	LV	Std	LV	Std	Std	LV	Std	LV	Std	LV	Std
SLOTS T	HAT C	AN BE I	POPUL	ATED											
12 slot servers	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
16 slot servers	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
24 slot servers	24	24	24	24	24	24	24	24	24	16	16	16	16	16	16
															
MAXIMU															
12 slot servers	48	48	96	96	96	96	192	192	384	24	24	48	48	96	96
16 slot servers	64	64	128	128	128	128	256	256	512	32	32	64	64	128	128
24 slot servers	96	96	192	192	192	192	384	384	768	32	32	64	64	128	128
POPULA	TED DI	мм срі	FED (M	T/e)											
1 DIMM/ Channel					1600	1866	1600	1866	1866	1600	1866	1600	1866	1600	1866
2 DIMM/ Channel	1600	1866	1600	1866	1600	1866	1600	1866	1866	1600	1866	1600	1866	1600	1866
3 DIMM/ Channel	800	1333	800	1333	800	1333	800	1333	1333	n/a	n/a	n/a	n/a	n/a	n/a

For HP SmartMemory, UDIMM is supported at 2DPC@DDR3-1866. Third party memory may only support up to 2DPC@DDR3-1333 or 1600.

All configurations on 64 slot server run at DDR3-1066.



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

Memory

Memory Speed by E5-2600 v2 Processor Model							
Processor Models	Supported Memory Speeds						
E5-2697 v2, E5-2695 v2, E5-2690 v2, E5-2680 v2, E5-2670 v2, E5-2667 v2, E5-2660 v2, E5-	1866/1600MHz						
2650 v2, E5-2643 v2, E5-2637 v2							
E5-2640 v2, E5-2630 v2, E5-2620 v2, E5-2650L v2, E5-2630L v2	1600MHz						
E5-2609 v2, E5-2603 v2	1333MHz						

DIMM Type Regis					tered DIMMS				Unbuffe	ouffered with ECC DIMMs (UDIMMs)					
Dilvilvi Type			•	RDIMMs	Load Reduced (LRDIMMs	Gilbuile				וושט) פוו	VIIVIS)				
DIMM Rank								Quad	Single	Rank					
	Sing	le Rani	k (1R)		Dual Ra	ank (2R	2)	Rank (4R)	(1R		Dual Rank (2R)				
DIMM Capacity	4GB	4GB	8GB	8GB	8GB	16GB	16GB	32GB	2GB	2GB	4GB	4GB	8GB	8GB	
DIMM Native Speed (MHz)	1333	1600	1600	1333	1600	1333	1600	1333	1333	1600	1333	1600	1333	1600	
Voltage	LV	Std	Std	LV	Std	LV	Std	LV	LV	Std	LV	Std	LV	Std	
SLOTS THAT CAN BE 24 slot servers	POPU 24	24	24	24	24	24	24	24	16	16	16	16	16	16	
MAXIMUM CAPACITY	(GB)*													_	
	96	96	192	192	192	384	384	768	32	32	64	64	128	128	
POPULATED DIMM SI	PEED (MHz)								,					
1 DIMM Per Channel	1333	1600	1600	1333	1600	1333	1600	1333***	1333	1600	1333	1600	1333	1600	
2 DIMM Per Channel	1333	1600	1600	1333	1600	1333	1600	1333***	1333****	1600	1333****	1600	1333****	1600	
3 DIMM Per Channel	1066**	1333##	1222##	1066**	1222##	1066**	122244	1066	n/a	n/a	n/a	n/a	n/a	n/a	

HP SmartMemory is required.

Memory Speed by E5-2600 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 3DPC @1066 at 1.5V.

^{****} 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

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 ...

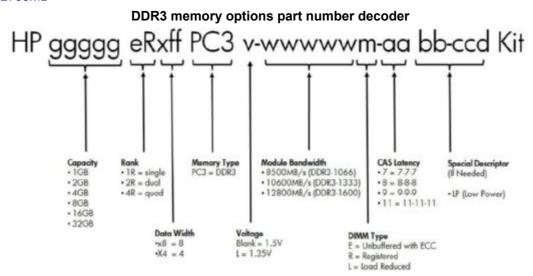
When two processors are installed, install DIMMs in sequential

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	2 G			
	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	ı	10	ı			
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·	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



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



Memory

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) NOTE: The following memory is supported by the E5-2600 v2 series Processors.	
HP 4GB (1x4GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-	713981-B21
11 Low Voltage Memory Kit HP 4GB (1x4GB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13	708637-B21
Memory Kit HP 8GB (1x8GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-11	713983-B21
Low Voltage Memory Kit HP 8GB (1x8GB) Single Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-	731765-B21
11 Low Voltage Memory Kit HP 8GB (1x8GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13	708639-B21
Memory Kit HP 8GB (1x8GB) Single Rank x4 PC3-14900R (DDR3-1866) Registered CAS-13	731761-B21
Memory Kit HP 16GB (1x16GB) Dual Rank x4 PC3L-12800R (DDR3-1600) Registered CAS-	713985-B21
11 Low Voltage Memory Kit HP 16GB (1x16GB) Dual Rank x4 PC3-14900R (DDR3-1866) Registered CAS- 13 Memory Kit	708641-B21
Registered DIMMs (RDIMMs)	
NOTE: The following memory is supported by the E5-2600 series Processors.	
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)	
NOTE: The following memory is supported by the E5-2600 v2 series Processors.	
HP 2GB (1x2GB) Single Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit	713975-B21
HP 2GB (1x2GB) Single Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory Kit	708631-B21



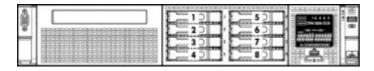
Memory

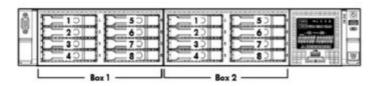
HP 4GB (1x4GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit	713977-B21
HP 4GB (1x4GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory Kit	708633-B21
HP 8GB (1x8GB) Dual Rank x8 PC3L-12800E (DDR3-1600) Unbuffered CAS-11 Low Voltage Memory Kit	713979-B21
HP 8GB (1x8GB) Dual Rank x8 PC3-14900E (DDR3-1866) Unbuffered CAS-13 Memory Kit	708635-B21
Unbuffered with ECC DIMMs (UDIMMs)	
NOTE: The following memory is supported by the E5-2600 series Processors.	
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)	
NOTE: The following memory is supported by the E5-2600 v2 series Processors.	
HP 32GB (1x32GB) Quad Rank x4 PC3-14900L (DDR3-1866) Load Reduced	708643-B21
CAS-13 Memory Kit	
Load Reduced DIMMs (LRDIMMs)	
NOTE: The following memory is supported by the E5-2600 series Processors.	
HP 32GB (1x32GB) Quad Rank x4 PC3L-10600L (DDR3-1333) Load Reduced	647903-B21
CAS-9 Low Voltage Memory Kit	047 300 BZ 1
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: For more information on ProLiant Energy Efficient Features, see: www.hp.com/go/proliant-energy-efficient	
1 0 1 2 2 2 3 3 7 2 2 3 3	

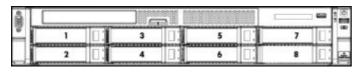


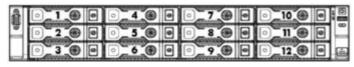
NOTE: PC3L is a low voltage memory.

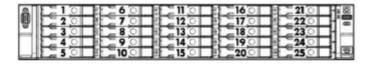
Storage











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

NOTE: This configuration requires the addition of a second controller for the second drive cage.

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.

NOTE: This configuration has a built-in expander that is driven by the embedded controller.

1-25 Twenty-five SFF SAS hot plug drive bays.

NOTE: This configuration does not support optical drive.

NOTE: This configuration has a built-in expander that is driven by the embedded 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)

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 Rated Line Voltage 100 to 120 VAC

(per power supply) 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: 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) 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) For 460 W Power Supply: 460 W (at 100 to 120 VAC), 460 W (at 200 to 240 VAC)



Rated Steady-State

Technical Specifications

	Maximum Peak 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) For 460 W Power Supply: 460 W (at 100 to 120 VAC), 460 W (at 200 to 240 VAC)			
System Inlet Temperature	Operating	10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 304.8 m (1.8°F per every 1000 ft) above sea level to a maximum of 3048 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 10°C/hr (18°F/hr). The upper limit may be limited by the type and number of options installed. System performance may be reduced if operating with a fan fault or above 30°C (86°F).			
	Non-operating	-30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).			
Relative Humidity (non-condensing)	Operating	10% to 90% relative humidity (Rh), 28°C (82.4°F) maximum wet bulb temperature, noncondensing.			
	Non-operating	5% to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.			
Altitude	Operating	3048 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min).			
	Non-operating	9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min).			
Acoustic Noise	Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109). The listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels. NOTE: The Listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels.				

configurations. Additional options may result in increased sound levels.

	Entry	Base	Performance
ldle			
LWAd	4.1 B	4.1 B	4.1 B
LpAm	25 dBA	25 dBA	25 dBA
Operating			



Technical Specifications

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

Emissions FCC Rating Class A

Classification (EMC) 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 Dimensions
Controller Disk Drive a

Dimensions Embedded

Disk Drive and 60

Enclosure Interface -

6Gb/s SAS (Serial Attached SCSI)

Transfer Rate

6Gb/s SATA (Serial ATA)

SAS Connectors 2 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, 60 (Advanced Data Guarding)

RAID 5, 50 (Distributed Data Guarding)

NOTE: A minimum of 512 MB cache is required to enable RAID 5, 50, 6,

60

NOTE: HP Smart Array Advanced Pack (SAAP 2.0) is no longer required to enable RAID 6 & 60 (Advanced Data Guarding). However,

controller must be in firmware version 4.68 (or later).

RAID 10 (Striping & Mirroring)
RAID 0 (Striping), RAID 1 (Mirroring)



Technical Specifications

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

Technology

HP Flexible Network Technology consists of replaceable network solutions to meet customer requirements now and in the future.

Network Interface

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

Data Transfer Method

PCI Express, four lanes (x4)

Chipset

BCM5719

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

10 Mb/s

10Base-T (Full-Duplex) 20 Mb/s 100Base-TX (Half-100 Mb/s

Duplex)

100Base-TX (Full-

200 Mb/s

Duplex)

1000Base-TX (Half and

2000Mb/s

Full-Duplex)

Connector Four RJ-45

Cable Support

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

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)

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

Network Interface Compatibility

SFP+ for Direct Attach Cable copper or fiber

IEEE 802.3 SFP+ (SX, SR & LR)

IEEE 802.3ae **IEEE 802.1ax** IEEE 802.1q IEEE 802.3x IEEE 802.1au IEEE 802.3ap IEEE 802.1Qaz IEEE 802.1Qau IEEE 802.1Qbb

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;

up to 328 ft (100 m)

Technical Specifications

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 FlexFabric 10Gb 2- Network Interface

port 533FLR-T Adapter

10GBASE-T connectivity supporting up to 100 meters with CAT 6A

cabling

Compatibility IEEE 802.3

IEEE 802.3x IEEE 802.2x IEEE 802.3ad IEEE 802.1Qaz IEEE 802.1Qau

IEEE 802.1Qbb IEEE 802.1Qbg IEEE 802.1ax

Data Transfer Method

PCle 2.0, eight lanes (x8)

Chipset

BCM57810S

Data Rate

Two ports, each at 20 Gbps full duplex; 40 Gbps aggregate full duplex

theoretical bandwidth.

Connector Two RJ-45

Cable Support

Maximum distances for CAT6 cable are 30 meters (98 feet). Maximum distances for CAT6a are 100 meters (328 feet).

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.



Technical Specifications

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

