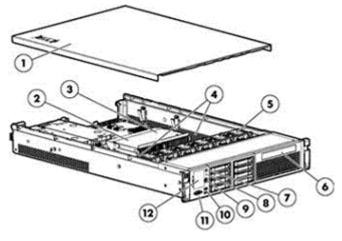
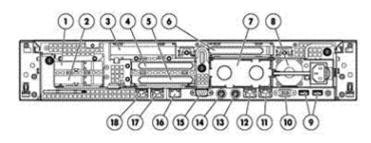
Overview

The HP ProLiant DL380 G7 Server continues to deliver on its heritage of engineering excellence with increased flexibility and performance, enterprise-class uptime and HP Insight Control manageability, 2 socket Intel® Xeon® performance, and 2U density for a variety of applications.





Front View:

- 1. Quick removal access panel
- 2. First Intel Processor
- 3. Second Intel Processor
- Eighteen slots: DDR3 Registered (RDIMM) or Unbuffered (UDIMM) memory
- 5. Hot-plug fans, full N+1 redundancy
- 6. Slim Optical Bay (SATA DVD-RW Optical Drive included on Performance models)
- 7. UID LED button
- Health LED
- 9. Power On/Standby button and system power LED
- 10. USB connectors (2)
- 11. Video connector
- 12. Systems Insight Display

Rear View:

- 1. PCI slot 5
- 2. PCI slot 6
- 3. PCI slot 4
- 4. PCI slot 2
- 5. PCI slot 3
- 6. PCI slot 1
- 7. Power supply 2
- 8. Power supply 1
- 9. USB connectors (2)
- 10. Video connector
- 11. NIC 1 connector
- 12. NIC 2 connector
- 13. Mouse connector
- 14. Keyboard connector
- 15. Serial connector
- 16. iLO 3 NIC connector
- 17. NIC 3 connector
- 18. NIC 4 connector

What's New

• Support for new HP hard drives, UPS



HP ProLiant DL380 Generation 7 (G7)

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

Six-Core Processors

Intel® Xeon® X5690 (3.46GHz/6-core/12MB/130W), DDR3-1333, HT, Turbo 1/1/1/1/2/2) Processor Intel® Xeon® X5680 (3.33GHz/6-core/12MB/130W, DDR3-1333, HT, Turbo 1/1/1/1/2/2) Processor Intel® Xeon® X5675 (3.06GHz/6-core/12MB/95W, DDR3-1333, HT, Turbo 2/2/2/3/3) Processor Intel® Xeon® X5670 (2.93GHz/6-core/12MB/95W, DDR3-1333, HT, Turbo 2/2/2/3/3) Processor Intel® Xeon® X5660 (2.80GHz/6-core/12MB/95W, DDR3-1333, HT, Turbo 2/2/2/3/3) Processor Intel® Xeon® X5650 (2.66GHz/6-core/12MB/95W, DDR3-1333, HT, Turbo 2/2/2/3/3) Processor Intel® Xeon® E5649 (2.53GHz/6-core/12MB/80W, DDR3-1333, HT, Turbo 1/1/1/1/2/2) Processor Intel® Xeon® E5645 (2.40GHz/6-core/12MB/80W, DDR3-1333, HT, Turbo 1/1/1/1/2/3) Processor Intel® Xeon® L5640 (2.26GHz/6-core/12MB/60W, DDR3-1333, HT, Turbo 2/2/3/3/4/4) Processor

Quad-Core Processors

Intel® Xeon® X5687 (3.60GHz/4-core/12MB/130W, DDR3-1333, HT, Turbo 1/1/2/2) Processor Intel® Xeon® X5672 (3.20GHz/4-core/12MB/95W, DDR3-1333, HT, Turbo 1/1/2/2) Processor Intel® Xeon® E5640 (2.66GHz/4-core/12MB/80W, DDR3-1066, HT, Turbo 1/1/2/2) Processor Intel® Xeon® E5630 (2.53GHz/4-core/12MB/80W, DDR3-1066, HT, Turbo 1/1/2/2) Processor Intel® Xeon® E5620 (2.40GHz/4-core/12MB/80W, DDR3-1066, HT, Turbo 1/1/2/2) Processor Intel® Xeon® E5606 (2.13GHz/4-core/8MB/80W, DDR3-1066) Processor Intel® Xeon® E5506 (2.13 GHz/4-core/4MB/80W, DDR3-800) Processor Intel® Xeon® E5603 (1.60GHz/4-core/4MB/80W, DDR3-1066) Processor

Intel® Xeon® L5630 (2.13GHz/4-core/12MB/40W, DDR3-1066, HT, Turbo 1/1/2/2) Processor

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 6, 5, 4, 3, 2, and 1 cores active.

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

NOTE: For the Intel 5000, and 5600Series, the letter preceding the model number indicates the performance/wattage of the processor. "X" denotes High Performance/Wattage; "E" denotes Enterprise Performance/Wattage (Mainstream); and "L" denotes Lower Wattage.

NOTE: Up to 2 processors supported. Performance configurations include two processors. Mixing different processor models is not supported.

Cache Memory

One of the following depending on Model Up to 12MB (1x12MB) Level 3 cache for all 5600 series processors

Up to 8MB (1 x 8MB) Level 3 cache for all 5500 series processors

Chipset

Intel® 5520 Chipset

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

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



HP ProLiant DL380 Generation 7 (G7)

Standard Features

Upgradeability Upgradeable to 2 processors (12 cores)

Memory Protection Advanced ECC (multi-bit error protection)

Mirroring mode

Online Spare supported on 5600 Series

Lockstep mode

Memory Type DDR3 Registered (RDIMM) and Unbuffered (UDIMM)

Standard (Performance 12GB (6 x 2GB) PC3-10600R (DDR3-1333) Registered DIMMs

Models)

Standard (Base Models) 6GB (3 x 2GB) PC3-10600R (DDR3-1333) Registered DIMMs Standard (Entry Models) 4GB (2 x 2GB) PC3-10600R (DDR3-1333) Registered DIMMs

Standard (Efficiency Models)

ency 4GB (2 x 2GB) PC3-10600E (DDR3-1333) Unbuffered DIMMS

Maximum (RDIMM) 384GB (12 x 32GB) for Registered Memory configurations

NOTE: Using PC3-8500R DDR3 Registered (RDIMM) memory, operating at

800MHz when fully populated at 2 DIMMs per Channel in 12 slots.

Maximum (UDIMM) 48GB (12 x 2GB) for Unbuffered Memory configurations

NOTE: Using PC3-10600E DDR3 Unbuffered (UDIMM) memory, operating at

1066MHz when fully populated at 2 DIMMs per Channel in 12 slots.

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

NOTE: when populating with the 16GB Memory Kits (Quad-Rank), only 12 DIMMs can be populated. **NOTE:** For G6 and G7 servers using Xeon 5600 series processors, the default memory speed is 1333MHz with either one or two DIMMs per channel. For G6 and G7 servers using Xeon 5500 series processors, an RBSU option is available to disable 1333MHz operation (which will result in 1067MHz operation).

NOTE: UDIMM support is only on 12-slot servers.

NOTE: Depending on the memory configuration and processor model, the memory speed may run at

1333MHz, 1066MHz, or 800MHz. Please see the Online Memory Configuration Tool at:

www.hp.com/go/ddr3memory-configurator.

Network Controller

Two HP NC382i Dual Port Multifunction Gigabit Server Adapters (four ports total) with TCP/IP Offload

Engine, including support for Accelerated iSCSI

Expansion Slots

NOTE: The system board has 2 PCI connectors, but the below riser cards have the actual PCI slots, to which PCI cards attach. Up to six available PCI-Express Gen2 slots, optional mixed PCI-X / PCI-Express or x16 PCI configurations available (see "Standard Features -Expansion Slots" section for more details).

| Primary Riser (Standard) | Expansion Slots # | Technology | Bus Width** | Connector Width | Bus Number* | Form Factor | Notes |
|-----------------------------|----------------------|------------|----------------|--------------------|-------------|-------------------------------------|-------|
| | 1 | PCIe Gen2 | X8 | X16 | 7 | Full Length, Full Height Slot | |



HP ProLiant DL380 Generation 7 (G7)

Standard Features

| 2 | PCIe Gen2 | Х4 | X8 | 10 | Half Length, Full Height Slot |
|---|-----------|----|----|----|-------------------------------------|
| 3 | PCIe Gen2 | X4 | X8 | 13 | Half Length, Full Height Slot |

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

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

| PCIe Riser (Optional Secondary) | Expansion Slots # | Technology | Bus Width** | Connector Width | Bus Number* | Form Factor | Notes |
|------------------------------------|-------------------|------------|----------------|--------------------|-------------|-------------------------------------|-------|
| | 4 | PCIe Gen2 | Х8 | X16 | 16 | Full length, full height slot | |
| | 5 | PCIe Gen2 | Х4 | Х8 | 20 | Half length, half height slot | |
| | 6 | PCIe Gen2 | X4 | X8 | 23 | Half length, half height slot | |

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

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

| PCIe/PCI-X Riser (Optional Primary) | Expansion Slots # | Technology | Bus Width** | Connector Width | Bus Number* | Form Factor | Notes |
|-------------------------------------|-------------------|-------------------|----------------|--------------------|-------------|-----------------------------|-------|
| | 1 | PCI-X (133MHz) | 64-bit | N/A | 7 | Full length, Full Height | |
| | 2 | PCI-E Gen2 | X8 | X16 | 11 | Half Length, Full Height | |
| | 3 | PCI-E Gen2 | X4 | X8 | 15 | Half Length, Full Height | |

NOTE: PCI-X support is limited to PCI-X cards only.

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

| PCIe/PCI-X Riser (Optional Secondary) | Expansion Slots # | Technology | Bus Width** | Connector Width | Bus Number* | Form Factor | Notes |
|---------------------------------------|-------------------|-------------------|----------------|--------------------|-------------|-------------------------------------|-------|
| | 4 | PCI-X (133MHz) | 64-bit | Not applicable | 19 | Full length, Full height slot | |
| | 5 | PCI-E Gen2 | X8 | X16 | 23 | Half Length, Half Height | |



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

HP ProLiant DL380 Generation 7 (G7)

Standard Features

6 PCI-E Gen2 Χ4 Х8 27 Half Length, Half Height

NOTE: Only PCI-X support is available in slot 4, supporting PCI-X cards. PCI legacy cards are not supported. *Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment number

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

| x16 PCIe Riser (Optional Primary) | Expansion Slots # | Technology | Bus Width** | Connector Width | Bus Number* | Form Factor | Notes |
|--------------------------------------|----------------------|------------|----------------|--------------------|-------------|-------------------------------------|--|
| | 1 | PCIe Gen2 | x16 | х16 | 13 | Full Length, Full Height slot | Supports up to 150W; single wide cards only |

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

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

| x16 PCIe Riser (Optional Secondary) | Expansion Slots # | Technology | Bus Width** | Connector Width | Bus Number* | Form Factor | Notes |
|--|----------------------|-------------------|-----------------|--------------------|------------------|-------------------------------------|--|
| | 4 | PCIe Gen2 | x16 | x16 | 16 | Full Length, Full Height slot | Supports up to 150W; single wide cards only |
| | * Default hus a | issianment (in de | cimal). Inserti | ng cards with P | CI bridges may a | Iter the actual | hus assignment |

Default bus assignment (in decimal). Inserting cards with PCI bridges may alter the actual bus assignment

| Storage Control | ler |
|-------------------|------|
| One of the follow | ving |
| depending on Mo | ndel |

Entry Models HP Smart Array P410i/Zero Memory Controller (RAID 0/1/1+0) **Base Models** HP Smart Array P410i/256 MB Controller (RAID 0/1/1+0/5/5+0) Performance Models HP Smart Array P410i/1G FBWC Controller (RAID 0/1/1+0/5/5+0)

Available upgrades: 1G FBWC, 512MB FBWC, 256MB, 512MB with BBWC, Battery kit upgrade (for the

256MB cache), and Smart Array Advanced Pack (SAAP)



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

HP ProLiant DL380 Generation 7 (G7)

Standard Features

| Internal Storage Devices | Diskette Drive | None Standard |
|--------------------------|----------------|---------------|
|--------------------------|----------------|---------------|

Optical Drive None Standard on Entry, High Efficiency, and Base Models

One of the following **NOTE:** No support on LFF HD Models, or when upgrading to optional 8 SFF HD. depending on Model

HP Slim SATA DVD RW Optical Drive Standard on Performance Models **NOTE:** The Optical Drive option is not available when you upgrade with the

additional 8 SFF drive cage, or in the LFF Models

Hard Drives None Standard

Hard Drive Bays Standard (8) small form factor (SFF) hot-plug drive bays to support Serial-

attached SCSI (SAS) and Serial ATA (SATA) drives

Optional second drive cage for additional (8) SFF drive bays (total 16) Optional cage for (6) Large Form Factor SAS/SATA hard drive bays

Maximum Internal Storage

Hot Plug SFF SAS 19.2TB 16 x 1.2TB (with optional SFF drive cage) Hot Plug LFF SATA 24.0TB 6 x 4TB (with optional LFF drive cage) Hot Plug SFF SAS SSD 12.8TB 16 x 800GB (with optional SFF drive cage) Hot Plug SFF SATA SSD 6.4TB 16 x 400GB (with optional SFF drive cage) Hot Plug LFF SATA SSD 6.4TB 16 x 400GB (with optional SFF drive cage)

Interfaces 1 Serial

2 (1 front, 1 back) Video

Network RJ-45 **HP iLO Remote** 1 Management Port Keyboard 1 Pointing Device (Mouse) 1 Graphics 1

1 **USB 2.0 Ports** 5 total: 2 front, 2 back, 1 internal

Industry Standard Compliance

ACPI 2.0 Compliant PCI 2.2 Compliant **WOL Support**

SD slot

Microsoft® Logo certifications

USB 2.0 Support

HP ProLiant DL380 Generation 7 (G7)

Standard Features

Server Power Cords

High voltage power cord ships standard with all part numbers.

NOTE: HP ProLiant DL servers no longer ship standard with a 12-foot NEMA 5-15P to C13 power cords that allow connection to 110V US wall outlets in a home or office. ProLiant DL servers are primarily connected to PDU's in data center racks so they now ship standard with only a PDU 6-foot C-14 to C13 power cord (142258-001). If a user wishes to power a ProLiant DL server using a110V receptacle (NEMA-15), the 12-foot NEMA 5-15 to C13 power cord must be ordered separately. Also available: 110 volt 6-Foot NEMA 5-15p to C13 (AF556A).

Common Slot Power Supply

Common Slot (CS) designates commonality of the power supply across multiple ProLiant servers. HP's new Common Slot power supplies are designed to provide the highest power supply efficiency without degrading the performance of a ProLiant. CS Power Supplies have efficiency ratings of up to 94% and are available in three power output options allowing the customer to "right-size" a power supply for their specific server configuration. To make sure you select the correct power supply to meet your configuration needs, we suggest that you use the HP Power Advisor to decide the "Right-Size" for your 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.

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.

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).

System Fans

Fully redundant hot plug fans ship standard (N+1).

NOTE: One processor models include four fans. Two processor models include six fans.

Required Cabling

For required cabling information, refer to the HP Web site at: www.hp.com/servers/dl380.



HP ProLiant DL380 Generation 7 (G7)

Standard Features

Operating Systems and Virtualization Software Support for ProLiant Servers Microsoft Windows Server Red Hat Enterprise Linux (RHEL) SUSE Linux Enterprise Server (SLES)

Oracle Solaris VMware Citrix XenServer

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

Graphics

Integrated ATI ES1000, 64MB video standard

16 bit color: maximum resolution of 1600 x 1200
32 bit color: maximum resolution of 1280 x 1024

NOTE: Maximum resolution available via iLO 3 remote console for ProLiant is 1280 x 1024 (for 32 bit color) and 1600 x 1200 (DVR max resolution).

Form Factor

Rack (2U)

Height 3.38-inch (8.59 cm); Width: 17.25 (44.54 cm); Depth: 27.25 inches (69.98 cm)

HP Insight management

HP Service Pack for ProLiant

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

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



HP ProLiant DL380 Generation 7 (G7)

Standard Features

The Service Pack for ProLiant has been rigorously tested with specific attention for interaction between firmware, drivers and agents both within the server as well as in interaction with the BladeSystem enclosure components (Onboard Administrator and Virtual Connect). This testing ensures the highest quality as well as providing the input for HP SUM to deploy updates taking into account all interdepencies, when determining the correct updates and order of update deployment.

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

HP Insight Foundation

Insight Foundation is being baselined at version v8.70 which means the following:

- Its Media Kit (contains 2 SmartStart CDs, the Firmware DVD, and the Management DVD) will continue to ship with all supported ProLiant G7 or earlier BTO servers until the last supported server is no longer shipping.
- The Media Kit will not be updated past version 8.70.
- ProLiant G7 or earlier CTO servers are able to order the Media Kit with the understanding that the media is not updated. Please check specific server QuickSpecs for availability of CTO Kit.
- PSP and Firmware DVD downloads will be updated through 2Q 2012 at the HP Insight Foundation Suite for ProLiant downloads tab: http://www.hp.com/go/foundation

Customers are urged to use the replacement product, HP Service Pack for ProLiant, instead of Insight Foundation Suite which is found at these location: www.hp.com/go/spp
www.hp.com/go/spp/download

HP Integrated Lights-Out (iLO) for ProLiant

HP Integrated Lights-Out (iLO) simplifies server setup, health monitoring, power and thermal control, and lights-out remote administration of ProLiant ML, DL, and BL servers. HP iLO functions without additional software and can be accessed from any location via a web browser. HP iLO works hand-in-hand with HP Systems Insight Manager, Insight Control, and Insight Dynamics for ProLiant, helping customers unleash the value of the ProLiant platform and deliver the highest possible quality of IT service. For more information, visit: www.hp.com/go/iLO

HP Insight Online

HP Insight Online is a new capability available through the HP Support Center portal for one stop, secure access to product and HP support information specific 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 ProLiant DL380 Generation 7 (G7)

Standard Features

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/qo/proactiveinsightexperience

Security

Power-on password Keyboard password

QuickLock, Network Server Mode

Serial interface control Administrator's password

Warranty

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

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

http://h18004.www1.hp.com/products/servers/platforms/warranty/index.html



HP ProLiant DL380 Generation 7 (G7)

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. 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. iLO Advanced activates 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/iloadvance

HP Insight Dynamics for ProLiant

HP Insight Dynamics for ProLiant, a product option, is advanced infrastructure management software that enables IT staff to instantly adjust their environments to meet dynamic business demands by provisioning, optimizing and protecting complex infrastructure in minutes. It's a powerful toolkit, integrated-by-design, that accelerates complex technology projects and simplifies daily operations, transforming data center economics. With Insight Dynamics IT professionals can plan capacity and power continuously, balance workloads across physical and virtual resources, and ensure cost-effective high availability. It also enables IT organizations to provision infrastructure consistently and automatically from pools of shared resources using a selfservice portal. Resources provisioned can range from a single virtual machine to complex multi-tier environments and their associated physical and virtual resource requirements. In addition to the previous functional benefits, it also provides a cost-effective disaster recovery for physical and virtual environments that works with HP Continuous Access software for both the Enterprise Virtual Array and the XP storage array allowing application environments to be reactivated in minutes with the touch of a button to a

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

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



remote location.

HP ProLiant DL380 Generation 7 (G7)

Optional Features

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

HP Cluster Management

Utility

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

efficient, and effective. http://www.hp.com/go/cmu

HP HPC Linux Value Pack HP HPC Linux Value Pack (Value Pack) is an HP-licensed and HP-supported

specially priced software bundle for the development and deployment of applications on HPC Cluster Platforms. Value Pack includes the Platform HPC Enterprise Edition suite of tools including the LSF workload scheduler, the HP-MPI parallelization library. Also included are the HP Unified Parallel C compiler and the HP Shmem library, as well as the execution environments for the

libraries and compiler. HP HPC Linux Value Pack

Storage Software

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

Storage software that gets the job done:

• Data Protection and Recovery Software

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

• Data Archive and Migration Software

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

Storage Resource Management Software (SRM)

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

• Data Replication Software

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

Storage Device Management Software

Maximize your investment in HP storage and networking with software that enables 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:



HP ProLiant DL380 Generation 7 (G7)

Optional Features

www.hp.com/go/storage/software.

for Servers and Storage

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

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

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

HP Simple Configurator

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



HP ProLiant DL380 Generation 7 (G7)

Service and Support

Service and Support

HP Technology Services for Industry Standard Servers and BladeSystem

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

What HP ProLiant and BladeSystem Services can do for you

HP ProLiant and BladeSystem Services can help you design, deploy, test, integrate, support, and manage IT and infrastructure solutions. This way, HP proposes services solutions that include more than just uplift of base warranty. You can get the support you need by choosing from one of a number of service packaged solutions we have designed to address wider set of customer support needs:.

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

Optimized Care

Optimized Care Package: Supports maintaining servers at optimum performance availability

HP ProLiant Server Hardware Installation

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

HP Installation and Startup for Insight Control Software

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

3-Year HP Critical Advantage

Provides end-to-end infrastructure support solution for business critical applications running on virtualized/x86 infrastructures, enabling the customers to cost effectively build, operate, and continuously improve their IT environment

http://h20195.www2.hp.com/V2/GetDocument.aspx?docname=4AA3-1772ENW

Additional Services: Microsoft or Linux or VMware education courses + Facility & technology environmental assessment services + Energy Efficiency Design, Factory Express



HP ProLiant DL380 Generation 7 (G7)

Service and Support

Standard Care

Standard Care Package: Package that maintains high level of server availability

HP ProLiant Server Hardware Installation

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

HP Installation and Startup for Insight Control Software

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

3-Year HP 6 hour Hardware Support Onsite Call-to-Repair Service

Provides an IT manager with a team of support specialists who will quickly begin troubleshooting the system to help return the hardware to operating condition within 6 hours of the initial service request to the HP Global Solution Center

http://h20195.www2.hp.com/V2/GetPDF.aspx/5982-6547EN.pdf

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

Provides for the deployment and basic configuration of HP Insight Control on HP ProLiant ML and DL series servers or HP BladeSystem servers

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

Additional Services: Software OS (Microsoft, Linux (SUSE/Red Hat) & VMware Installation & Start Up, and Software Support; Install and Startup Services for Insight Control; Microsoft or Linux or VMware education courses; +30 Proactive Select Credits, Factory Express

Basic Care

Basic Care Package: delivers minimum recommended support service level

HP ProLiant Server Hardware Installation

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

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

Provides for the deployment and basic configuration of HP Insight Control on HP ProLiant ML and DL series servers or HP BladeSystem servers

http://h20195.www2.hp.com/v2/GetPDF.aspx/4AA0-9972ENW.pdf

Additional Services: Software OS (Microsoft, Linux (SUSE/Red Hat) & VMware Installation & Start Up and Software Support); +10 Proactive Select Credits, Factory Express

Insight Remote Support

The packages include HP Insight Remote Support that uses proven technology to deliver secure, reliable 24x7 remote monitoring, diagnoses, and problem resolution. It is available at no additional cost to all warranty, HP Care Pack Service, and service agreement customers.

For more information

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



Pre-configured Models

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

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

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

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

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

Performance Models

| Six-Core Models HP ProLiant DL380 G7 X5690 2P 12GB-R P410i/1GB 8 SFF 750W RPS Svr 633404-xx1 | Processor(s) Two of the following depending on Model | (2) Intel® Xeon® X5690 (3.46GHz/6-core/12MB/130W), DDR3-1333, HT, Turbo 1/1/1/1/2/2) Processors (2) Intel® Xeon® X5660 (2.80GHz/6-core/12MB/95W, DDR3-1333, HT, Turbo 2/2/2/3/3) Processors (2) Intel® Xeon® X5650 (2.66GHz/6-core/12MB/95W, DDR3-1333, HT, Turbo 2/2/2/2/3/3) Processors |
|---|--|---|
| | Cache Memory | 12MB (1 x 12MB) Level 3 cache |
| HP ProLiant DL380 G7 X5660 2P 12GB-R | Memory | 12 GB (6 x 2 GB) PC3-10600R (DDR3-1333) Registered DIMMs NOTE: Total of 18 DIMM slots. |
| P410i/1GB FBWC 8 SFF | Network Controller | Two HP NC382i Dual Port Multifunction Gigabit Server Adapters |
| 750W RPS Perf IC Svr 583970-xx1 | Storage Controller | HP Smart Array P410i/1GB with FBWC |
| | Hard Drive | None ship standard |
| HP ProLiant DL380 G7 X5650 2P 12GB-R | Internal Storage | Standard: 8 SFF SAS/SATA HDD Bays Optional: 16 SFF SAS/SATA HDD Bays |
| P410i/1GB FBWC 8 SFF | Optical Drive | HP Slim SATA DVD RW drive |
| 750W RPS Perf IC Svr 583966-xx1 | Power Supply | (2) 750W Hot Plug Power Supplies |
| 303300 AA1 | Fans | (6) (N+1 redundancy standard) |
| | Insight Control | HP Insight Control No Media single server license, including 1 year of 24x7 Technical Support and Updates |
| | Form Factor | Rack (2U), Height 3.38-inch (8.59 cm); Width: 17.25 (44.54 cm); Depth: 27.25 inches (69.98 cm) |
| | Warranty | Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support |

with next business day response.



HP ProLiant DL380 Generation 7 (G7)

Pre-configured Models

Base Models

Six -Core Models **HP ProLiant DL380 G7** E5649 1P 6GB-R

P410i/256 8 SFF 460W PS

633405-xx1

HP ProLiant DL380 G7 E5645 1P 6GB-R

P410i/256 8 SFF 460W PS

Server 633407-xx1 Processor(s)

Memory

One of the following depending on Model

(1) Intel® Xeon® E5645 (2.40GHz/6-core/12MB/80W, DDR3-1333, HT, Turbo

Two HP NC382i Dual Port Multifunction Gigabit Server Adapters

(1) Intel® Xeon® E5649 (2.53GHz/6-core/12MB/80W, DDR3-1333, HT, Turbo

1/1/1/1/2/3) Processor

1/1/1/2/2) Processor

Cache Memory 12MB (1 x 12MB) Level 3 cache

6 GB (3 x 2 GB) PC3-10600R (DDR3-1333) Registered DIMMs

NOTE: Total of 18 DIMM slots.

Network Controller

Storage Controller HP Smart Array P410i/256MB Controller

Hard Drive None ship standard

Internal Storage Standard: 8 SFF SAS/SATA HDD Bays Optional: 16 SFF SAS/SATA HDD Bays

Optical Drive None ship standard

Power Supply (1) 460W Hot Plug Power Supply **Fans** (4) (N+1 redundancy standard)

Rack (2U), Height 3.38-inch (8.59 cm); Width: 17.25 (44.54 cm); Depth: 27.25 **Form Factor**

inches (69.98 cm)

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

with next business day response.

Quad-Core Models HP ProLiant DL380 G7 E5620 1P 6GB-R

P410i/256 8 SFF 460W PS

Base Server 589152-xx1

Processor(s)

(1) Intel® Xeon® E5620 (2.40GHz/4-core/12MB/80W, DDR3-1066, HT, Turbo

1/1/2/2) Processor

Cache Memory 12MB (1 x 12MB) Level 3 cache

6 GB (3 x 2 GB) PC3-10600R (DDR3-1333) Registered DIMMs Memory

NOTE: Total of 18 DIMM slots.

Network Controller

Two HP NC382i Dual Port Multifunction Gigabit Server Adapters

Storage Controller

HP Smart Array P410i/256MB Controller

Hard Drive

None ship standard

Internal Storage

Standard: 8 SFF SAS/SATA HDD Bays Optional: 16 SFF SAS/SATA HDD Bays

Optical Drive

None ship standard

Power Supply

(1) 460W Hot Plug Power Supply (4) (N+1 redundancy standard)

Form Factor

Fans

Rack (2U), Height 3.38-inch (8.59 cm); Width: 17.25 (44.54 cm); Depth: 27.25

inches (69.98 cm)

Warranty

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

with next business day response.



HP ProLiant DL380 Generation 7 (G7)

Pre-configured Models

Entry Models

Quad-Core Models HP ProLiant DL380 G7 E5606 1P 4GB-R P410i/ZM 8 SFF 460W PS Server

633408-xx1

Processor(s)
Cache Memory

Memory

(1) Intel® Xeon® E5606 (2.13GHz/4-core/8MB/80W, DDR3-1066) Processor

8MB (1 x 8MB) Level 3 cache

4 GB (2 x 2 GB) PC3-10600R (DDR3-1333) Registered DIMMs

NOTE: Total of 18 DIMM slots.

Network Controller

Two HP NC382i Dual Port Multifunction Gigabit Server Adapters

Storage Controller

HP Smart Array P410i/Zero Memory Controller

Hard Drive

None ship standard

Internal Storage

Standard: 8 SFF SAS/SATA HDD Bays Optional: 16 SFF SAS/SATA HDD Bays

Optical Drive

None ship standard

Power Supply

(1) 460W Hot Plug Power Supply(4) (N+1 redundancy standard)

Form Factor

Fans

Rack (2U), Height 3.38-inch (8.59 cm); Width: 17.25 (44.54 cm); Depth: 27.25

inches (69.98 cm)

Warranty

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

with next business day response.

Efficiency Model

Quad-Core Models HP ProLiant DL380 G7

L5630 1P 4GB-U P410i/ZM Cache Memory 4 SFF 460W PS Efficiency Memory

Server

583969-xx1

Processor(s)

(1) Intel® Xeon® L5630 (2.13GHz/4-core/12MB/40W, DDR3-1066, HT, Turbo

1/1/2/2) Processor

Cache Memory 12MB (1 x 4MB) Level 3 cache

Memory 4 GB (2 x 2 GB) PC3-10600E (DDR3-1333) Unbuffered DIMMs

NOTE: Total of 18 DIMM slots.

Network Controller

roller Two HP NC382i Dual Port Multifunction Gigabit Server Adapters

Storage Controller

HP Smart Array P410i/Zero Memory Controller

Hard Drive None ship standard

Internal Storage

Standard: 8 SFF SAS/SATA HDD Bays

Optional: 16 SFF SAS/SATA HDD Bays

Optical Drive

None ship standard

Power Supply

(1) 460W 94% Efficient Hot Plug Power Supply

Fans

(4) (N+1 redundancy standard)

Form Factor

Rack (2U), Height 3.38-inch (8.59 cm); Width: 17.25 (44.54 cm); Depth: 27.25

inches (69.98 cm)

Warranty

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

with next business day response.



PRC

QuickSpecs

HP ProLiant DL380 Generation 7 (G7)

Pre-configured Models

| Country Code Key | xx = 00 | U.S. |
|------------------|---------|--------|
| | xx = 20 | Brazil |
| | xx = 29 | Japan |
| | xx = 37 | APD |
| | xx = 42 | Europe |

xx = AA



HP ProLiant DL380 Generation 7 (G7)

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: Configure-to-order (CTO) servers must start with a CTO Chassis.

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

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

HP Models

HP ProLiant DL380 G7 SFF Configure-to-order Server

583914-B21

Factory Integrated Model ships with:

Two HP NC382i Dual Port Multifunction Gigabit Server Adapters Smart Array P410i Controller I/O slots - 3 Slots come standard:

- Slot 1 FL/FH x8 PCIE (x16 connector)
- Slot 2 HL/FH x4 PCIE (x8 connector)
- Slot 3 HL/FH x4 PCIE (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 - 8-SFF (Second SFF drive cage optional)

USB - 2 Rear, 2 Front, 1 Internal, 1 SD slot Server Management - (iLO 3) (embedded)

NOTE: Power Supply not included - choose from Options section

HP ProLiant DL380 G7 LFF Configure-to-order Server

583917-B21

Factory Integrated Model ships with:

Two HP NC382i Dual Port Multifunction Gigabit Server Adapters Smart Array P410i Controller I/O slots - 3 Slots come standard:

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

Drive Cage - 6-LFF

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

USB - 2 Rear, 2 Front, 1 Internal, 1 SD slot Server Management - (iLO 3) (embedded)

NOTE: Power Supply not included - choose from Options section **NOTE:** On LFF Model Optional Optical Drive is not available

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 unless

Performance Model features are desired. Then choose one xxxxxx-L21 and the



HP Memory

HP ProLiant DL380 Generation 7 (G7)

Configuration Information - Factory Integrated Models

corresponding HP Performance Pack from Step 3 below.

| | _ | _ | |
|------|-------|------|----------|
| CIV- | [nro | Proc | essors |
| JIN- | LUIC | | . 233013 |

| Quad-Core Processors | |
|---|------------|
| HP DL380 G7 Intel® Xeon® E5645 (2.40GHz/6-core/12MB/80W) FIO Processor Kit | 633420-L21 |
| HP DL380 G7 Intel® Xeon® E5649 (2.53GHz/6-core/12MB/80W) FIO Processor Kit | 633418-L21 |
| HP DL380 G7 Intel® Xeon® X5675 (3.06GHz/6-core/12MB/95W) FIO Processor Kit | 633414-L21 |
| HP DL380 G7 Intel® Xeon® X5690 (3.46GHz/6-core/12MB/130W) FIO Processor Kit | 633410-L21 |

| HP DL380 G7 Intel® Xeon® X5687 (3.60GHz/4-core/12MB/130W) FIO Processor Kit | 633412-L21 |
|---|-------------|
| HP DL380 G7 Intel® Xeon® X5672 (3.20GHz/4-core/12MB/95W) FIO Processor Kit | 633416-L21 |
| HP DL380 G7 Intel® Xeon® E5630 (2.53GHz/4-core/12MB/80W) FIO Processor Kit | 587478-L21 |
| HP DL380 G7 Intel® Xeon® E5606 (2.13GHz/4-core/8MB/80W) FIO Processor Kit | 633442-L21 |
| HP NI 380 G7 Intel® Xeon® E5603 (1 60GHz/4-core/AMR/80W) FIO Processor Kit | 633444-I 21 |

Registered DIMMs (RDIMMs)

| HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit | 500656-B21 |
|---|------------|
| HP 4GB (1x4GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit | 500658-B21 |
| HP 4GB (1x4GB) Single Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit | 593339-B21 |
| HP 4GB (1x4GB) Single Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power | 604504-B21 |
| Memory Kit | |

NOTE: Low Voltage DIMMs can only be used with Intel® Xeon® processor 5600 series processors.

| HP 8GB (1x8GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit | 500662-B21 |
|---|------------|
| HP 8GB (1x8GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power | 604506-B21 |
| Memory Kit | |

NOTE: Low Voltage DIMMs can only be used with Intel® Xeon® processor 5600 series processors.

| HP 16GB (1x16GB) Quad Rank x4 PC3-8500 (DDR3-1066) Registered CAS-7 Memory Kit | 500666-B21 |
|--|------------|
| HP 16GB (1x16GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 LP | 627812-B21 |
| Memory Kit | |

HP 32GB (1x32GB) Quad Rank x4 PC3L-8500 (DDR3-1066) Registered CAS-7 LP Memory Kit

Unbuffered with ECC DIMMs (UDIMMs)

| HP 1GB (1x1GB) Single Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit | 500668-B21 |
|---|------------|
| HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit | 500670-B21 |
| HP 4GB (1x4GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit | 500672-B21 |
| HP 4GB (1x4GB) Dual Rank x8 PC3L-10600 (DDR3-1333) Unbuffered CAS-9 Low Power | 619488-B21 |
| Memory Kit | |

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

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

NOTE: PC3L is a low voltage memory

HP Power Supplies NOTE: Prior to making a power supply selection it is highly recommended that the HP

627814-B21

HP ProLiant DL380 Generation 7 (G7)

Configuration Information - Factory Integrated Models

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 Power Supplies

| HP 460W Common Slot Platinum Hot Plug Power Supply Kit | 593188-B21 |
|---|------------|
| HP 750W Common Slot Platinum Hot Plug Power Supply Kit | 593831-B21 |
| HP 1200W Common Slot Platinum Hot Plug Power Supply Kit | 578322-B21 |

HP Common Slot Gold Power Supplies

| 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 1200W Common Slot -48VDC Hot Plug Power Supply Kit 437573-B21

NOTE: DC power supplies contain a -48V DC power cord designed for in rack DC power rectifiers.

NOTE: Option Kits contain optional power supply, an IEC power cable and PDU IEC cables.

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

HP Performance Packs

The HP ProLiant DL380 performance packs are necessary to configure a HP ProLiant DL380 Performance Model. HP ProLiant DL380 Performance model includes the latest performance technologies and enterprise class availability features pre-installed for convenience and value.

- The performance pack includes:
 - 2nd processor
 - 750-watt redundant power supply
 - 1GB FBWC cache module for P410i
 - One DL380 G6 HP Fan kit (contains gty of 2)
 - O Insight Control license with 1 yr 24x7 support

NOTE: Must also select Slimline SATA DVD RW Optical Drive (481043-B21) to achieve parity to DL380 High Performance Models.

| HP DL380 G7 X5650 High Performance Model FIO Performance Pack | 593824-B21 |
|---|------------|
| HP DL380 G7 X5660 High Performance Model FIO Performance Pack | 593825-B21 |
| HP DL380 G7 X5690 FIO High Performance Pack | 633445-B21 |

HP Insight Software

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

Step 4: Choose Additional Options for Factory Integration

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



C6N36A

HP ProLiant DL380 Generation 7 (G7)

Core Options

| HP Unique Options | ay not be integrated at the factory. Contact your local sales representative for additional inform HP DL380 G6 8 Small Form Factor (SFF) Drive Cage Kit | 516914-B21 |
|-------------------|--|------------|
| nr omque options | NOTE: Second drive cage installation replaces internal optical bay. | 310314 021 |
| | NOTE: Second drive cage requires second controller or HP SAS Expander Card (468406- | |
| | B21). | |
| | HP DL380 G6 3 Slot PCI-E Riser Kit | 500579-B21 |
| HP Processors | Six-Core Processors | |
| | HP DL380 G7 Intel® Xeon® X5690 (3.46GHz/6-core/12MB/130W) Processor Kit | 633410-B21 |
| | HP DL380 G7 Intel® Xeon® X5675 (3.06GHz/6-core/12MB/95W) Processor Kit | 633414-B21 |
| | HP DL380 G7 Intel® Xeon® X5670 (2.93GHz/6-core/12MB/95W) Processor Kit | 587493-B21 |
| | HP DL380 G7 Intel® Xeon® X5660 (2.80GHz/6-core/12MB/95W) Processor Kit | 587491-B21 |
| | HP DL380 G7 Intel® Xeon® X5650 (2.66GHz/6-core/12MB/95W) Processor Kit | 587482-B21 |
| | HP DL380 G7 Intel® Xeon® E5649 (2.53GHz/6-core/12MB/80W) Processor Kit | 633418-B21 |
| | HP DL380 G7 Intel® Xeon® E5645 (2.40GHz/6-core/12MB/80W) Processor Kit | 633420-B21 |
| | HP DL380 G7 Intel® Xeon® L5640 (2.26GHz/6-core/12MB/60W) Processor Kit | 587507-B21 |
| | Quad-Core Processors | |
| | HP DL380 G7 Intel® Xeon® X5687 (3.60GHz/4-core/12MB/130W) Processor Kit | 633412-B21 |
| | HP DL380 G7 Intel® Xeon® X5672 (3.20GHz/4-core/12MB/95W) Processor Kit | 633416-B21 |
| | HP DL380 G7 Intel® Xeon® E5640 (2.66GHz/4-core/12MB/80W) Processor Kit | 587480-B21 |
| | HP DL380 G7 Intel® Xeon® E5630 (2.53GHz/4-core/12MB/80W) Processor Kit | 587478-B21 |
| | HP DL380 G7 Intel® Xeon® E5620 (2.40GHz/4-core/12MB/80W) Processor Kit | 587476-B21 |
| | HP DL380 G7 Intel® Xeon® E5606 (2.13GHz/4-core/8MB/80W) Processor Kit | 633442-B21 |
| | HP DL380 G7 Intel® Xeon® E5603 (1.60GHz/4-core/4MB/80W) Processor Kit | 633444-B21 |
| | HP DL380 G7 Intel® Xeon® L5630 (2.13GHz/4-core/12MB/40W) Processor Kit | 587505-B21 |
| HP Memory | Registered DIMMs (RDIMMs) | |
| | HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit | 500656-B21 |
| | HP 4GB (1x4GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit | 500658-B21 |
| | HP 4GB (1x4GB) Single Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit | 593339-B21 |
| | HP 4GB (1x4GB) Single Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit | 604504-B21 |
| | NOTE: Low Voltage DIMMs can only be used with Intel® Xeon® processor 5600 series processors. | |
| | HP 8GB (1x8GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit | 500662-B21 |
| | HP 8GB (1x8GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit NOTE: Low Voltage DIMMs can only be used with Intel® Xeon® processor 5600 series | 604506-B21 |
| | processors. | |
| | HP 16GB (1x16GB) Quad Rank x4 PC3-8500 (DDR3-1066) Registered CAS-7 Memory Kit | 500666-B21 |
| | | |



HP ProLiant DL380 Generation 7 (G7)

Core Options

| HP 16GB (1x16GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 LP Memory Kit | 627812-B21 |
|--|------------|
| HP 32GB (1x32GB) Quad Rank x4 PC3L-8500 (DDR3-1066) Registered CAS-7 LP Memory Kit | 627814-B21 |
| Unbuffered with ECC DIMMs (UDIMMs) | |
| HP 1GB (1x1GB) Single Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit | 500668-B21 |
| HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit | 500670-B21 |
| HP 4GB (1x4GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit | 500672-B21 |
| HP 4GB (1x4GB) Dual Rank x8 PC3L-10600 (DDR3-1333) Unbuffered CAS-9 Low Power Memory Kit | 619488-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. | |
| | |

HP Optical Drives

HP Slim 12.7mm SATA DVD-RW Optical Drive

NOTE: Included in performance models.

HP Slim 12.7mm SATA DVD-ROM Optical Drive

481041-B21

NOTE: There is no optical drive support in the LFF Hard Drive models, or optional 8 SFF
HDD

HP Hard Drives

NOTE: The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components.

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

HP 450GB 6G SAS 15K rpm LFF (3.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive

HP 300GB 6G SAS 15K rpm LFF (3.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive

HP 1.2TB 6G SAS 10K SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive

SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives

| · · · · · · · · · · · · · · · · · · · | |
|---|------------|
| HP 900GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive | 619291-B21 |
| HP 600GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive | 581286-B21 |
| HP 450GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive | 581284-B21 |
| HP 300GB 6G SAS 15K rpm SFF (2.5-inch) Hot Plug Enterprise 3 yr Warranty Hard Drive | 627117-B21 |
| HP 300GB 6G SAS 10K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive | 507127-B21 |
| HP 146GB 6G SAS 15K rpm SFF (2.5-inch) Dual Port Enterprise 3yr Warranty Hard Drive | 512547-B21 |
| SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives | |
| HP 600GB 6G SAS 15K rpm LFF (3.5-inch) Dual Port Enterprise 3vr Warranty Hard Drive | 516828-B21 |

SAS Hot Plug SFF (2.5-inch) Midline (MDL) Drives



516816-B21

516814-B21

693648-B21

HP ProLiant DL380 Generation 7 (G7)

Core Options

| HP 1TB 6G SAS 7.2K rpm SFF (2.5-inch) Dual Port Midline 1yr Warranty Hard Drive | 605835-B21 |
|---|------------|
| HP 500GB 6G SAS 7.2K rpm SFF (2.5-inch) Dual Port Midline 1yr Warranty Hard Drive | 507610-B21 |
| SAS Hot Plug LFF (3.5-inch) Midline (MDL) Drives | |
| HP 3TB 6G SAS 7.2K rpm LFF (3.5-inch) Midline 1yr Warranty Hard Drive | 625031-B21 |
| HP 2TB 6G SAS 7.2K rpm LFF (3.5-inch) Dual Port Midline 1yr Warranty Hard Drive | 507616-B21 |
| HP 1TB 6G SAS 7.2K rpm LFF (3.5-inch) Dual Port Midline 1yr Warranty Hard Drive | 507614-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) | |
| SATA Hot Plug SFF (2.5-inch) Midline (MDL) Drives | |
| HP 1TB 3G SATA 7.2K rpm SFF (2.5-inch) Hot Plug Midline 1yr Warranty Hard Drive | 625609-B21 |
| HP 500GB 3G SATA 7.2K rpm SFF (2.5-inch) Midline 1yr Warranty Hard Drive | 507750-B21 |
| SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives | |
| HP 4TB 3G SATA 7.2k rpm LFF (3.5-inch) Midline 1yr Warranty Hard Drive | 694374-B21 |
| HP 3TB 3G SATA 7.2K rpm LFF (3.5-inch) Midline 1yr Warranty Hard Drive | 628059-B21 |
| HP 2TB 3G SATA 7.2K rpm LFF (3.5-inch) Midline 1yr Warranty Hard Drive | 507632-B21 |
| HP 1TB 3G SATA 7.2K rpm LFF (3.5-inch) Midline 1yr Warranty Hard Drive | 454146-B21 |
| HP 500GB 3G SATA 7.2K rpm LFF (3.5-inch) Midline 1yr Warranty Hard Drive | 458928-B21 |
| SATA Hot Plug LFF (3.5-inch) Entry (ETY) Drives | |
| HP 250GB 3G SATA 7.2K rpm LFF (3.5-inch) Entry 1yr Warranty Hard Drive | 571230-B21 |
| 6G SAS ME Hot Plug SFF (2.5-inch) Enterprise Mainstream Solid State Drives | |
| HP 800GB 6G SAS Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr | 690823-B21 |
| Warranty Solid State Drive | |
| HP 400GB 6G SAS Mainstream Endurance SFF 2.5-in ENT Mainstream 3yr Warranty Solid | 690821-B21 |
| State Drive | |
| HP 200GB 6G SAS Mainstream Endurance SFF 2.5-in Enterprise Mainstream 3yr | 690819-B21 |
| Warranty Solid State Drive | |
| SATA Hot Plug 2.5" Enterprise Mainstream Solid State Drives | |
| HP 400GB 3G SATA MLC SFF (2.5-inch) Enterprise Mainstream 3yr Warranty Solid State Drive | 636597-B21 |
| HP 200GB 3G SATA MLC SFF (2.5-inch) Enterprise Mainstream 3yr Warranty Solid State | 636595-B21 |
| Drive | |
| HP 100GB 3G SATA MLC SFF (2.5-inch) Enterprise Mainstream 3yr Warranty Solid State | 636593-B21 |
| Drive Control of the | |
| SATA Hot Plug 3.5" Midline (MDL) Solid State Drives | |
| HP 400GB 3G SATA MLC LFF (3.5-inch) Enterprise Mainstream 3yr Warranty Solid State Drive | 636611-B21 |
| HP 200GB 3G SATA MLC LFF (3.5-inch) Enterprise Mainstream 3yr Warranty Solid State Drive | 636609-B21 |
| HP 100GB 3G SATA MLC LFF (3.5-inch) Enterprise Mainstream 3yr Warranty Solid State Drive | 636607-B21 |
| 6G SAS Hot Plug Enterprise Performance Solid State Drives | |
| | |



HP ProLiant DL380 Generation 7 (G7)

Core Options

| | HP 400GB 6G SAS SLC SFF (2.5-inch) Enterprise Performance 3yr Warranty Solid State Drive | 632494-B21 |
|---------------|---|------------|
| | HP 200GB 6G SAS SLC SFF (2.5-inch) Enterprise Performance 3yr Warranty Solid State Drive | 632492-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) | |
| HP Networking | Gigabit Ethernet adapters | |
| | HP NC112T PCI Express Gigabit Server Adapter | 503746-B21 |
| | HP NC360T PCI-E Dual Port Gigabit Server Adapter | 412648-B21 |
| | HP NC365T 4-port Ethernet Server Adapter | 593722-B21 |
| | HP NC373F PCI-E Multifunction 1000SX Gigabit Svr Adapter | 394793-B21 |
| | HP NC373T PCI-E Multifunction Gigabit Server Adapter | 394791-B21 |
| | HP NC375T PCI Express Quad Port Gigabit Server Adapter | 538696-B21 |
| | HP NC382T PCI Express Dual Port Multifunction Gigabit Server Adapter | 458492-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. | |
| | HP NC522SFP Dual Port 10GbE Gigabit Server Adapter | 468332-B21 |
| | HP NC550SFP Dual Port 10GbE Server Adapter | 581201-B21 |
| | HP NC523SFP 10Gb 2-port Server Adapter | 593717-B21 |
| | HP NC552SFP 10Gb 2-port Ethernet Server Adapter | 614203-B21 |
| | HP 10 GbE PCI-e G2 Dual Port Network Interface Card | 516937-B21 |
| | NOTE: Please see the QuickSpecs for Technical Specifications and additional | |
| | information: www.hp.com/go/ProLiantNICs | |
| HP InfiniBand | HP InfiniBand 4X QDR ConnectX-2 PCIe G2 Dual Port HCA | 592520-B21 |
| | HP InfiniBand 4X DDR ConnectX-2 PCIe G2 Dual Port HCA | 592521-B21 |
| | QLogic InfiniBand 4X QDR PCI-E G2 Dual Port HCA | 583211-B21 |
| | HP InfiniBand FDR/EN 10/40Gb Dual Port 544QSFP Adapter | 649281-B21 |
| | NOTE: Please see the QuickSpecs for additional information: | |
| | http://h18000.www1.hp.com/products/quickspecs/13078_div/13078_div.html | |
| | | |



HP ProLiant DL380 Generation 7 (G7)

| C | 0-4: | |
|------|---------|--|
| core | Options | |

| Core Options | | |
|--------------------------|---|------------|
| HP I/O Expansion Options | NOTE: Supports the HP ProLiant DL380 G7 server. | |
| | HP DL385G5p PCI-X Riser Kit | 494322-B21 |
| | HP DL38X G5p/G6/G7 PCI-E x16 Riser Kit | 494323-B21 |
| | HP DL38X (2) x8 PCI-E Riser Kit | 494326-B21 |
| HP Power Supplies | 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 Power Supplies | |
| | HP 460W Common Slot Platinum Hot Plug Power Supply Kit | 593188-B21 |
| | HP 750W Common Slot Platinum Hot Plug Power Supply Kit | 593831-B21 |
| | HP 1200W Common Slot Platinum Hot Plug Power Supply Kit | 578322-B21 |
| | HP Common Slot Gold Power Supplies | |
| | 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 1200W Common Slot -48VDC Hot Plug Power Supply Kit NOTE: DC power supplies contain a -48V DC power cord designed for in rack DC power rectifiers. | 437573-B21 |



HP ProLiant DL380 Generation 7 (G7)

Additional Options

| HP Insight Software | HP Insight Control | |
|---------------------|--|------------|
| | HP Insight Control including 1yr 24x7 Technical Support and Updates Single Server License | C6N27A |
| | HP Insight Control including 1yr 24x7 Technical Support and Updates Electronic License | C6N28AAE |
| | HP Insight Control Server Provisioning Media Kit | BD883A |
| | HP Insight Management Media Kit | C6N31A |
| | HP Insight Control including 1yr 24x7 Support ProLiant ML/DL/BL-bundle Electronic License | C6N36AAE |
| | HP Insight Control Server Deployment including 1yr 24x7 Support Electronic License | T9082AAE |
| | HP Insight Control Server Deployment including 1yr 24x7 Support Single Server License | 452151-B21 |
| | NOTE: Electronic and Flexible-Quantity licenses can be used to purchase multiple licenses with a single activation key. | |
| | NOTE: Customer will receive a license entitlement certificate. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Includes one year of 24 x 7 HP Software Technical Support and Update Service. NOTE: Licenses ship without media. The HP Insight Control Media Kit can be ordered separately, or can be downloaded at: http://www.hp.com/go/insightupdates. | |
| | NOTE: For additional license options please see the QuickSpecs at: | |
| | http://h18000.www1.hp.com/products/quickspecs/12631_div/12631_div.html | |
| | HP Integrated Lights-Out (iLO) Advanced for ProLiant | |
| | HP iLO Advanced including 1yr 24x7 Technical Support and Updates Electronic License | TA850AAE |
| | HP iLO Advanced Electronic License with 3yr 24x7 Tech Support and Updates | BD506AAE |
| | HP iLO Advanced including 1yr 24x7 Technical Support and Updates Single Server License | 512485-B21 |
| | HP iLO Advanced 1 Server License with 3yr 24x7 Tech Support and Updates | BD505A |
| | 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

HP ProLiant DL380 Generation 7 (G7)

Additional Options

High Performance Clusters

HP Cluster Management Utility

HP Insight Cluster Management Utility 1yr 24x7 Flexible License

QL803B

HP Insight Cluster Management Utility 3yr 24x7 Flexible License

BD476A

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

HP Insight Cluster Management Utility Media

BD477A

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

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

HP HPC Linux Value Pack

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

TC293B

NOTE: This part number can be used to purchase one certificate for multiple licenses with a single activation key. Each license is for one socket (a.k.a. processor). Customer will receive a printed end user license agreement and license entitlement certificate via physical shipment. The license entitlement certificate must be redeemed online in order to obtain a license key.

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

TC294A

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

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

HP Drive Cage Options

HP DL380 G6 8 Small Form Factor (SFF) Drive Cage Kit

516914-B21

NOTE: Supports the HP ProLiant DL380 G7 server.

NOTE: Second drive cage installation replaces internal optical bay.

NOTE: Second drive cage requires second controller or HP SAS Expander Card (468406-

B21).



HP ProLiant DL380 Generation 7 (G7)

Additional Options

HPI/O Accelerator Options

Second Generation Accelerators

| HP 365GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers | 673642-B21 |
|--|------------|
| HP 785GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers | 673644-B21 |
| HP 1205GB Multi Level Cell G2 PCIe ioDrive2 for ProLiant Servers | 673646-B21 |
| HP 2410GB Multi Level Cell G2 PCIe ioDrive2 Duo for ProLiant Servers | 673648-B21 |

First Generation Accelerators

HP 160GB Single Level Cell PCIe ioDrive for ProLiant Servers 600278-B21

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

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

NOTE: Please see the QuickSpecs for Technical Specifications and additional

information:

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

(Worldwide)

HP Security

HP Trusted Platform Module Option

488069-B21

600281-B21

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

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

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

HP Storage Controllers

SAS Controllers

Smart Array P212 Controller

| HP Smart Array P212/256 1-ports Int/1-ports Ext PCIe x8 SAS Controller | 462834-B21 | | |
|--|------------|--|--|
| HP Smart Array P212/ZM 1-ports Int/1-ports Ext PCIe x8 SAS Controller | 462828-B21 | | |
| Smart Array P410 Controller | | | |
| HP Smart Array P410/256 2-ports Int PCIe x8 SAS Controller | 462862-B21 | | |
| HP Smart Array P410/512 BBWC 2-ports Int PCIe x8 SAS Controller | 462864-B21 | | |
| HP Smart Array P410/512 FBWC 2-ports Int PCIe x8 SAS Controller | 578230-B21 | | |
| HP Smart Array P410/1G FBWC 2-ports Int PCIe x8 SAS Controller | 572532-B21 | | |
| Smart Array P411 Controller | | | |
| HP Smart Array P411/256 2-ports Ext PCIe x8 SAS Controller | 462830-B21 | | |
| HP Smart Array P411/512 BBWC 2-ports Ext PCIe x8 SAS Controller | 462832-B21 | | |
| HP Smart Array P411/512 FBWC 2-ports Ext PCIe x8 SAS Controller | 578229-B21 | | |



HP Smart Array P411/1G FBWC 2-ports Ext PCIe x8 SAS Controller

572531-B21

HP ProLiant DL380 Generation 7 (G7)

Additional Options

| Smart Array P812 Controller | |
|---|------------------------|
| HP Smart Array P812/1G FBWC 2-ports Int/4-ports Ext PCIe x8 SAS Controller | 487204-B2 |
| Optional Upgrades | |
| HP 256MB P-series Cache Upgrade NOTE: Supported on HP Smart Array P212 Controller and as an upgrade on HP Smart Array P410i (Zero Memory). | 462968-B2 ² |
| HP 512MB P-Series Battery Backed Write Cache Upgrade | 462967-B2 |
| HP 1GB Flash Backed Cache NOTE: Supported on the Smart Array P410i Controller only. | 534562-B2° |
| HP 512MB Flash Backed Write Cache NOTE: Supported on the Smart Array P410i Controller only. | 534916-B2 ² |
| HP Smart Array Advanced Pack including 1yr 24x7 Technical Support and Updates Single Server License | 516471-B2 |
| NOTE: This part number can be used to purchase a single license or to order multiple licenses with a single activation key. Customers will receive a license entitlement certificate via e-mail. The license entitlement certificate must be redeemed online or via fax in order to obtain the license activation key(s). Include one year of 24x7 HP Software Technical Support Services. | |
| NOTE: Please see the QuickSpecs for Technical Specifications and additional | |
| information: http://h18000.www1.hp.com/products/quickspecs/13203_div/13203_div.html (Smart Array P212 Controller) | |
| http://h18000.www1.hp.com/products/quickspecs/13201_div/13201_div.html (Smart Array P410 Controller) | |
| http://h18000.www1.hp.com/products/quickspecs/13202_div/13202_div.html (Smart Array P411 Controller) | |
| http://h18000.www1.hp.com/products/quickspecs/13558_div/13558_div.html (Smart Array P812 Controller) | |
| http://h18000.www1.hp.com/products/quickspecs/13200_div/13200_div.html (Smart Array Advanced Pack) | |
| SAS Controller Options | |
| HP 24 Bay SAS Expander Card | 468406-B2 |
| NOTE: Please see the QuickSpecs for Technical Specifications and additional information: | |
| http://h18004.www1.hp.com/products/quickspecs/13232_div/13232_div.html (SAS Expander Card) | |
| SAS HBA | |
| HP Modular Smart Array SC08e 2-ports Ext PCIe x8 SAS Host Bus Adapter NOTE: This is a 2 x4 External Port HBA | 614988-B2 ² |
| NOTE: This is only approved for the HP P2000 G3 SAS Modular Smart Array. | |
| NOTE: Please see the QuickSpecs for Technical Specifications and additional | |
| information: http://h18004.www1.hp.com/products/quickspecs/13651_div/13651_div.html (SC08e 6Gb HBA) | |
| SCSI HBA | |



HP SC11Xe Ultra320 Single Channel/ PCIe x4 SCSI Host Bus Adapter

412911-B21

HP ProLiant DL380 Generation 7 (G7)

Additional Options

NOTE: Please see the following QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/12566_div/12566_div.html (SC11Xe HBA)

| HP Power Cords | NOTE: HP ProLiant servers ships with an IEC-IEC power cord used for rack mounting with Power Distribution Units (PDUs). | |
|----------------|--|--------|
| | HP C13 - SEV 1011 CH 250V 10Amp 1.83m Power Cord | AF565A |
| | HP C13 - DK-2.5A DK 250V 10Amp 1.83m Power Cord | AF566A |
| | HP C13 - CEE-VII EU 250V 10Amp 1.83m Power Cord | AF568A |
| | HP C13 - BS-1363A UK/HK/SG 250V 10Amp 1.83m Power Cord | AF570A |
| | HP C13 - CEI-23-50 IT/CL 250V 10Amp 1.83m Power Cord | AF571A |
| | HP C13 - SABS-164 ZA 250V 10Amp 2.5m Power Cord | AF567A |
| | HP C13 - Nema 6-15P US 250V 15A JP 3.6m Power Cord | A0N33A |
| | HP C13 - Nema 5-15P US/CA 110V 10Amp 1.83m Power Cord | AF556A |
| HP Tape Backup | NOTE: For the complete range of tape drives, autoloaders, libraries and media see: http://www.hp.com/go/tape. For hardware and software compatibility of HP tape backup products see: http://www.hp.com/storage/SPOCK and www.hp.com/go/ebs. NOTE: For Internal drives to be connected to DL servers please make sure that you order rack mount kit as well. | |
| | HP StoreEver LTO-3 Ultrium 920 SAS Internal Tape Drive NOTE: For installation into 1U SAS rack kit (AE459B) or 3U SAS rack kit (AG576B). No peripheral bay available for installation into the server. Connection using HP P212 Smart Array Controller SAS (462828-B21) recommended. | EH847B |
| | HP StoreEver LTO-4 Ultrium 1760 SAS (1) in 1U Rack-mount Kit NOTE: Connection using HP P212 Smart Array Controller SAS (462828-B21) recommended. | EH946C |
| | HP StoreEver LTO-5 Ultrium 3000 SAS Tape Drive in 1U Rack-mount | EJ014B |
| | HP StoreEver LTO-6 Ultrium 6250 Tape Drive in 1U Rack-mount Kit | COL99A |
| | HP StoreEver LTO-6 Ultrium 6650 Internal Tape Drive | EH963A |
| | HP StoreEver LTO-6 Ultrium 6650 External Tape Drive | EH964A |
| | HP StoreEver LTO-6 Ultrium 6250 Internal Tape Drive | EH969A |
| | HP StoreEver LTO-6 Ultrium 6250 External Tape Drive | EH970A |



HP ProLiant DL380 Generation 7 (G7)

Additional Options

HP Disk Backup

NOTE: For the complete range of D2D Backup Systems see:

http://www.hp.com/go/d2d. 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 D2D Backup Systems with Backup Data Deduplication

| - | HP StoreOnce D2D2502i Backup System | EJ001C | |
|---|---|--------|--|
| | HP StoreOnce D2D2504i Backup System | EJ002C | |
| ı | HP StoreOnce D2D4112 Backup System | EH993C | |
| ١ | HP RDX Removable Disk Backup Systems USB | | |
| | HP RDX1000 USB3.0 DL Server Backup Module | B7B68A | |
| ı | HP RDX500 USB3.0 DL Server Backup Module | B7B65A | |
| ١ | HP StoreOnce Backup systems | | |
| | HP StoreOnce 2620 iSCSI Backup | BB852A | |
| ١ | HP StoreOnce 4220 Backup | BB855A | |

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

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

Brocade Fibre Channel HBAs

| The orb odd i port i cle ribre challier host bas Adapter | AI 7030 | | |
|--|---------|--|--|
| HP 82B 8Gb 2-port PCIe Fibre Channel Host Bus Adapter | AP770B | | |
| HP 41B 4Gb 1-port PCIe Fibre Channel Host Bus Adapter | AP767B | | |
| HP 42B 4Gb 2-port PCIe Fibre Channel Host Bus Adapter | AP768B | | |
| Emulex Fibre Channel HBAs | | | |
| HP 81E 8Gb 1-port PCIe Fibre Channel Host Bus Adapter | AJ762B | | |
| HP 82E 8Gb 2-port PCIe Fibre Channel Host Bus Adapter | AJ763B | | |
| HP FC2142SR 4Gb 1-port PCIe Fibre Channel Host Bus Adapter | A8002B | | |
| HP FC2242SR 4Gb 2-port PCIe Fibre Channel Host Bus Adapter | A8003B | | |
| HP SN1000E 16Gb 2-port PCIe Fibre Channel Host Bus Adapter | QR559A | | |
| HP SN1000E 16Gb 1-port PCIe Fibre Channel Host Bus Adapter | QR558A | | |
| QLogic Fibre Channel HBAs | | | |
| HP 81Q 8Gb 1-port PCIe Fibre Channel Host Bus Adapter | AK344A | | |
| HP 82Q 8Gb 2-port PCIe Fibre Channel Host Bus Adapter | AJ764A | | |
| HP StoreFabric SN1000Q 16GB 1-port PCIe Fibre Channel Host Bus Adapter | QW971A | | |
| HP StoreFabric SN1000Q 16GB 2-port PCIe Fibre Channel Host Bus Adapter | QW972A | | |
| HP FC1142SR 4Gb 1-port PCIe Fibre Channel Host Bus Adapter | AE311A | | |
| HP FC1242SR 4Gb 2-port PCIe Fibre Channel Host Bus Adapter | AE312A | | |
| Converged Network Adapter | | | |
| HP CN1100E Dual Port Converged Network Adapter | BK835A | | |

HP CN1000Q Dual Port Converged Network Adapter

BS668A

AP769B

HP ProLiant DL380 Generation 7 (G7)

| Additiona | l Options |
|-----------|-----------|
|-----------|-----------|

HP CN1000E Dual Port Converged Network Adapter AW520B **HP Disk Storage Systems** Disk Enclosures HP D2600 Disk Enclosure AJ940A HP D2700 Disk Enclosure AJ941A **NOTE:** Please see the QuickSpecs for additional options and configuration information http://h18000.www1.hp.com/products/quickspecs/13404 div/13404 div.html **HP Uninterruptible Power HP Rack-mountable UPS Systems** HP R1500 G3 Uninterruptible Power Supply (UPS) HP R1.5kVA G3 1U NA Uninterruptible Power System AF469A HP R1.5kVA G3 1U JP/TW Uninterruptible Power System AF470A HP R1.5kVA G3 1U INTL Uninterruptible Power System AF471A **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 L530 Low Voltage NA/JP Uninterruptible Power System AF466A HP R/T3000 G2 2U L620 High Voltage NA/JP Uninterruptible Power System AF467A HP R/T3000 G2 2U Detachable Cord High Voltage INTL Uninterruptible Power System AF468A **NOTE:** Please see the QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/14058 div/14058 div.html (Worldwide) **R5000 Uninterruptible Power System (UPS)** HP R5KVA 3U IEC309-32A High Voltage INTL Uninterruptible Power System AF461A HP R5KVA 3U L630 High Voltage NA/JP Uninterruptible Power System AF460A HP R5KVA and R7KVA 3U Extended Runtime Module AF464A **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) HP Rackmountable 3 Phase Uninterruptible Power Systems (UPS R8000/3 and R12000/3)



HP R8000/3 8000kVA Three Phase NA 6U Rackmount Uninterruptible Power System

HP R8000/3 8000kVA Three Phase INTL 6U Rackmount Uninterruptible Power System

HP R12000/3 12000VA Three Phase NA 6U Rackmount Uninterruptible Power System

AF431A

AF432A

AF429A

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Additional Options

HP R12000/3 12000VA Three Phase INTL 6U Rackmount Uninterruptible Power System

AF430A

NOTE: Please see the QuickSpecs for additional information:

http://h18000.www1.hp.com/products/quickspecs/12857_div/12857_div.html (Worldwide)

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

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

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

HP Power Distribution Units

HP Monitored Power Distribution Unit: Full Rack Version

| HP 8.6kVA 24A Single Input Three Phase NA/JP Monitored Power Distribution Unit | AF504A |
|---|--------|
| HP 8.3kVA 40A Single Input Single Phase NA/JP Monitored Power Distribution Unit | AF506A |
| HP 22.1kVA 16A Dual Input Three Phase INTL Monitored Power Distribution Unit | AF507A |
| HP 11kVA 16A Single Input Three Phase INTL Monitored Power Distribution Unit | AF508A |
| HP 14.7kVA 32A Dual Input Single Phase INTL Monitored Power Distribution Unit | AF509A |
| HP 7.3kVA 32A Single Input Single Phase INTL Monitored Power Distribution Unit | AF510A |
| HP Monitored Power Distribution Unit: Half Rack Version | |
| HP 4.9kVA 24A Single Input Single Phase NA/JP Monitored Power Distribution Unit | AF914A |
| HP 7.3kVA 32A Single Input Single Phase INTL Monitored Power Distribution Unit | AF915A |

NOTE: Please see the following QuickSpecs for additional information: http://h18000.www1.hp.com/products/quickspecs/12118_div/12118_div.html (Worldwide)

Modular Power Distribution Units 1U/OU (Up to 32 outlets)

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

| HP 2.8kVA 24A Low Voltage NA/JP Modular Power Distribution Unit | 252663-D71 |
|--|------------|
| HP 4.9kVA 24A High Voltage NA/JP Modular Power Distribution Unit | 252663-D72 |
| HP 8.3kVA 40A High Voltage NA/JP Modular Power Distribution Unit | 252663-D73 |
| HP 7.3kVA 32A High Voltage INTL Modular Power Distribution Unit | 252663-B31 |
| HP 3.6kVA 16A High Voltage INTL Modular Power Distribution Unit | 252663-B24 |

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

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

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

NOTE: For additional information on HP Power Distribution Units including accessories please go to: www.hp.com/go/pdu.

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

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Additional Options

link will list cable descriptions, requirements, and specifications for UPS and PDU units. Please see the following link: www.hp.com/products/powercords.

| | Please see the following link: www.hp.com/products/powercords. | |
|----------------------------------|---|----------------|
| HP Intelligent Power | iPDU Core Units | |
| Distribution Units (iPDU) | HP 4.9kVA 24A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit | AF520A |
| | HP 8.3kVA 40A Single Phase NA/JP Core Intelligent Modular Power Distribution Unit | AF521 <i>A</i> |
| | HP 8.6kVA 24A Three Phase NA/JP Core Intelligent Modular Power Distribution Unit | AF522 |
| | 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 | AF527 |
| | HP 11.4kVA 16A 415V Three Phase L22-20 NA Core Intelligent Power Distribution Unit | AF900A |
| | HP 17.3kVA 24A 415V Three Phase L22-30 NA Core Intelligent Power Distribution Unit | AF902A |
| | HP 17.3kVA 24A 415V Three Phase IEC309 NA Core Intelligent Power Distribution Unit | AF901A |
| | 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 | AF537 <i>A</i> |
| | HP 22kVA 32A 400V Three Phase 12 Outlet Core INTL Intelligent Power Distribution Unit | AF538A |
| | 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) | |
| HP Rack Options | 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 | AZ877 |
| | 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

HP TFT7600 G2 KVM Console Rackmount Keyboard BE Monitor

HP TFT7600 G2 KVM Console Rackmount Keyboard JP Monitor

AZ880A

AZ881A

AZ882A

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Additional Options

| 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 BFR with PVC Free US Keyboard/Mouse Kit | 631341-B21 |
| HP USB BFR with PVC Free UK Keyboard/Mouse Kit | 631344-B21 |
| HP USB BFR with PVC Free FR Keyboard/Mouse Kit | 631346-B21 |
| HP USB BFR with PVC Free ES Keyboard/Mouse Kit | 631348-B21 |
| HP USB BFR with PVC Free DE Keyboard/Mouse Kit | 631358-B21 |
| HP USB BFR with PVC Free JP Keyboard/Mouse Kit | 631360-B21 |
| HP USB BFR with PVC Free IT Keyboard/Mouse Kit | 631362-B21 |
| HP USB BFR with PVC Free CN Keyboard/Mouse Kit | 631364-B21 |
| HP USB BFR with PVC Free AE Keyboard/Mouse Kit | 638212-B21 |
| HP USB BFR with PVC Free RU Keyboard/Mouse Kit | 638214-B21 |
| HP USB BFR with PVC Free IN Keyboard/Mouse Kit | 672097-D63 |
| HP USB BFR with PVC Free AP-Intl Keyboard/Mouse Kit | 672097-373 |
| HP USB BFR with PVC Free Intl Keyboard/Mouse Kit | 672097-B33 |
| HP USB BFR with PVC Free PT Keyboard/Mouse Kit | 672097-133 |
| HP USB BFR with PVC Free TR Keyboard/Mouse Kit | 672097-143 |
| HP USB BFR with PVC Free CZ Keyboard/Mouse Kit | 672097-223 |
| HP USB BFR with PVC Free FI Keyboard/Mouse Kit | 672097-353 |
| HP USB BFR with PVC Free SE Keyboard/Mouse Kit | 672097-103 |
| HP USB BFR with PVC Free CH Keyboard/Mouse Kit | 672097-113 |
| HP USB BFR with PVC Free KR Keyboard/Mouse Kit | 672097-KD3 |
| NOTE: Please see the 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 | AFOZOA |
| 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 |
| | |



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Additional Options

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
HP 1x1Ex8 KVM IP Console Switch G2 with Virtual Media CAC Software
HP 2x1Ex16 KVM IP Console Switch G2 with Virtual Media CAC Software
HP 4x1Ex32 KVM IP Console Switch G2 with Virtual Media CAC Software
AF621A
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)

HP USB and SD options

HP USB 2-Button Optical Scroll Mouse

HP 2GB USB Flash Media Drive Key Kit

DC172B

HP USB 04 Standard Keyboard

DT528A#ABA 580387-B21

NOTE: Blank SD media device is supported for use with VMware and Citrix. SD media must be installed in the internal slot of the ProLiant server. Learn more at:

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

HP 4GB SD Enterprise Performance Flash Media Kit

608447-B21

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 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.

| TIP 3 year 4 flour 24x7 Flociant DESOX(p) Floattive care service | UZZJUL |
|---|--------|
| HP 3 year 4 hour 24x7 with Defective Media Retention ProLiant DL38x(p) Proactive Care Service | U2Z53E |
| HP 3 year 6 hour Call To Repair 24x7 ProLiant DL38x(p) Proactive Care Service | U2Z56E |
| HP 3 year 6 hour Call To Repair 24x7 w/Defective Media 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 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
U3N26E
Proactive Care SVC



HP 3 year 4 hour 24x7 Prol iant DI 38x(n) Proactive Care Service

112750F

HP ProLiant DL380 Generation 7 (G7)

Additional Options

| HP 3 year 6 hour Call To Repair 24x7 ProLiant DL38x(p) with Insight Control Proactive Care Service | U3N29E |
|---|--------|
| HP 3yr 6hrCallToRepair 24x7w/Defective Media Retention DL38x(p) w/Insight Control Proactive Care SVC | U3N32E |
| Collaborative Support | |
| NOTE: Hardware break/fix plus 24x7 software diagnosis support with collaborative call management for a broad spectrum of 3rd Party software products including O/S and hypervisors. Recommended for customers procuring 3rd party SW O/S and hypervisors from the software vendors directly and deploying them on HP ProLiant servers. | |
| HP 3 year 4 hour 24x7 ProLiant DL38x(p) Collaborative Support | U1J30E |
| HP 3 year 4 hour 24x7 with Defective Media Retention ProLiant DL38x(p) Collaborative Support | U1J33E |
| HP 3 year 6 hour Call To Repair 24x7 ProLiant DL38x(p) Collaborative Support | U1J36E |
| HP 3 year 6hr Call To Repair 24x7 with Defective Media Retention ProLiant DL38x(p) Collaborative Supp | U1J39E |
| Proactive Care Personalized Support Option | |
| NOTE: To add an onsite Account Support Manager (ASM) to Proactive Care. ASM is an assigned resource who delivers support planning and brings technical expertise and best practices advices for the customer's environment. | |
| HP 3yr Provides annual personalized proactive supp for existing Proactive Care ISS centric environment | U6W98E |
| Installation Services | |
| NOTE: Reduce the time required to get your system up and running and help minimize disruptions to your business. | |
| HP Installation of ProLiant Add On/In Options Service | UH745E |
| HP Install ProLiant DL38x(p) Service | U4554E |
| HP Startup ProLiant DL38x(p) Service | U4555E |
| HP Installation and Startup for Insight Control Server Deployment - previously Rapid Deployment Pack | U5683E |
| NOTE: For more information, customer/resellers can contact: | |
| | |

http://www.hp.com/services/carepack



HP ProLiant DL380 Generation 7 (G7)

Memory

NOTE: Memory configurations listed do not apply to "Factory Integrated Models".

DDR3 memory population guidelines

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

Some DIMM installation guidelines are summarized below:

- For servers with eighteen (18) memory slots:
 - There are three (3) channels per processor; six (6) channels per server
 - There are three (3) DIMM slots for each memory channel; eighteen (18) total slots
 - Memory channel 1 consists of the three (3) DIMMs that are closest to the processor
 - Memory channel 3 consists of the three (3) DIMMs that are furthest from the processor
- DIMM slots that are white should be populated first
- Do not mix Unbuffered memory (UDIMMs) with Registered memory (RDIMMs)
- Do not install DIMMs if the corresponding processor is not installed
- If only one processor is installed in a 2CPU system, only half of the DIMM slots are available
- To maximize performance, balance the total memory capacity between all installed processors
- It is not required, but it is recommended to load the channels similarly if possible
- If any Quad rank DIMMs are installed, all channels are limited to only 2 DIMMs per channel.
- You can only install two quad-rank DIMMs per channel
- You can only install two UDIMMs per channel; if available, the third slot in the channel must remain empty
- 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 chipset
- For memory mirroring mode, channel 3 must be unpopulated. Channels 1 and 2 are populated identically
- For lock-step mode, channel 3 must be unpopulated. DIMMs in channels 1 and 2 will be installed in pairs. The paired slots will be 1,4; 2,5; 3;6 on a 3DPC system or 1,4; 2,5; on a 2DPC system
- If mixing DIMM voltage is a requirement, please note that the DIMMs will run at 1.5V since all 1.35V are capable of supporting 1.5V operations

| | | | DIMM | 1 slot/cap | pacity/po | pulated s | peed tab | le | | | | |
|----------------------------|----------------|------------------------------|----------|------------|-----------|-----------|----------|-----------|--------|----------------|---------|----------|
| DIMM Туре | | Registered DIMMS (RDIMMs) | | | | | | | | ffered wit | | |
| DIMM Rank | Single Rank | | | | | | | | | Single Rank | | |
| | (1R) | | Du | al Rank (| 2R) | | Qua | ad Rank (| 4R) | (1R) | Dual Ra | ank (2R) |
| DIMM Capacity | 4GB | 2GB | 4GB | 8GB | 8GB | 16GB | 4GB | 16GB | 32GB | 1GB | 2GB | 4GB |
| DIMM Native Speed (MHz) | 1333 | 1333 | 1333 | 1066 | 1333 | 1333 | 1066 | 1066 | 1066 | 1333 | 1333 | 1333 |
| Voltage | LV/Std | Std | Std | Std | LV/Std | LV | Std | Std | LV/Std | Std | Std | Std |
| | SLOTS TH | IAT CAN E | BE POPUL | ATED | | | | | | | | |
| 18 slot servers | 18 | 18 | 18 | 18 | 18 | 18 | 12 | 12 | 12 | 12 | 12 | 12 |
| | MAXIMUI | M CAPACI | TY (GB) | | | | | | | | | |
| | 72 | 36 | 72 | 144 | 144 | 288 | 48 | 192 | 384 | 12 | 24 | 48 |
| | POPULAT | ED DIMM | SPEED (N | ИHz) | | | | | | | | |



HP ProLiant DL380 Generation 7 (G7)

Memory

| 1 DIMM Per Channel | 1333 | 1333 | 1333 | 1066 | 1333 | 1333 | 1066 | 1066 | 1066 | 1333 | 1333 | 1333 |
|--------------------|-------|-------|------|------|-------|-------|------|------|------|------|------|------|
| 2 DIMM Per Channel | 1066/ | 1333 | 1333 | 1066 | 1066/ | 1066/ | 800 | 800 | 800 | 1333 | 1333 | 1333 |
| | 1333* | | | | 1333* | 1333* | | | | | | |
| 3 DIMM Per Channel | 800** | 800** | 800 | 800 | 800** | 800** | n/a | n/a | n/a | n/a | n/a | n/a |

* 2DPC: LV runs default 1333 at 1.5V. Use RBSU Power Management option to select 1066 at 1.35V. Std runs at 1333.

** 3DPC: LV/Std voltage runs at 800

NOTES:

- Mixing DIMM speeds is allowed, but the system processor speed rules always override the DIMM capabilities
- If you do mix DIMM speeds, the memory bus will default to the minimum clock rate of all DIMMs in the system even if the slower DIMM is on the other processor
- If you install 1x 1066MHz DIMM in channel 1 and 1x 1333MHz DIMM in channel 2, you still run at 1066MHz
- If you install 1x 1066MHz DIMM in channel 1 and 5x 1333MHz DIMMs with 1 DIMM Per Channel (DPC) in each of the other channels, you run at 1066MHz
- If you install 3DPC in one channel (if applicable) and 1DPC in all other channels, you run at 800MHz
- References to the above MHz speeds are for the various speeds of DDR3 DIMMs; 1333 refers to DDR3-1333, etc.

DIMM slot and configuration diagrams Basic memory slot & population diagram

• Population order; start with "A" first, "B" second, "C" third, etc.

| | | 18 DIMM SLOTS | (9 per CPU node) | | |
|--------|-------|------------------|------------------|------------------|--------|
| | СР | U1 | СР | U2 | |
| | slot# | population order | slot# | population order | |
| Chnl 1 | 1 | G | 1 | G | Chnl 1 |
| | 2 | D | 2 | D |] |
| | 3 | Α | 3 | Α |] |
| | | | | | |
| Chnl 2 | 4 | Н | 4 | Н | Chnl 2 |
| | 5 | Е | 5 | E | |
| | 6 | В | 6 | В |] |
| | | | | | |
| Chnl 3 | 7 | I | 7 | I | Chnl 3 |
| | 8 | F | 8 | F |] |
| | 9 | С | 9 | С |] |

Standard memory configuration (1 CPU model)

6GB, consisting of three (3) 2GB dual-rank PC3-10600 RDIMMs



HP ProLiant DL380 Generation 7 (G7)

Memory

| | CI | PU1 | | CPU2 | | | |
|--------|-------|------------------|-------|------------------|--------|--|--|
| | slot# | population order | slot# | population order | | | |
| Chnl 1 | 1 | G; empty | 1 | G; empty | Chnl 1 | | |
| | 2 | D; empty | 2 | D; empty | | | |
| | 3 | A; 2GB DIMM | 3 | A; empty | | | |
| Chnl 2 | 4 | H; empty | 4 | H; empty | Chnl 2 | | |
| | 5 | E; empty | 5 | E; empty | | | |
| | 6 | B; 2GB DIMM | 6 | B; empty | | | |
| Chnl 3 | 7 | l; empty | 7 | l; empty | Chnl 3 | | |
| | 8 | F; empty | 8 | F; empty | | | |
| | 9 | C; 2GB DIMM | 9 | C; empty |] | | |

Standard memory plus optional memory (1 CPU model)

- 54GB, consisting of three (3) 2GB RDIMMs plus six (6) 8GB RDIMMs
 - O 3x 2GB dual-rank PC3-10600 RDIMMs
 - O 6x 8GB dual-rank PC3-8500 RDIMMs

| | С | PU1 | | CPU2 | |
|--------|-------|------------------|-------|------------------|--------|
| | slot# | population order | slot# | population order | |
| Chnl 1 | 1 | G; 8GB DIMM | 1 | G; empty | Chnl 1 |
| | 2 | D; 8GB DIMM | 2 | D; empty | |
| | 3 | A; 2GB DIMM | 3 | A; empty | 1 |
| Chnl 2 | 4 | H; 8GB DIMM | 4 | H; empty | Chnl 2 |
| | 5 | E; 8GB DIMM | 5 | E; empty | |
| | 6 | B; 2GB DIMM | 6 | B; empty | 1 |
| Chnl 3 | 7 | I; 8GB DIMM | 7 | l; empty | Chnl 3 |
| | 8 | F; 8GB DIMM | 8 | F; empty | |
| | 9 | C; 2GB DIMM | 9 | C; empty |] |

Standard memory replaced with optional memory (1 CPU model) RDIMM maximum configuration (1 CPU model)

• 96GB, consisting of six (6) 16GB quad-rank PC3-8500 RDIMMs



HP ProLiant DL380 Generation 7 (G7)

Memory

| | СР | U1 | СР | CPU2 | | | |
|--------|-------|------------------|-------|------------------|--------|--|--|
| | slot# | population order | slot# | population order | | | |
| Chnl 1 | 1 | G; empty | 1 | G; empty | Chnl 1 | | |
| | 2 | D; 16GB DIMM | 2 | D; empty | | | |
| | 3 | A; 16GB DIMM | 3 | A; empty | | | |
| Chnl 2 | 4 | H; empty | 4 | H; empty | Chnl 2 | | |
| | 5 | E; 16GB DIMM | 5 | E; empty |] | | |
| | 6 | B; 16GB DIMM | 6 | B; empty |] | | |
| Chnl 3 | 7 | l; empty | 7 | l; empty | Chnl 3 | | |
| | 8 | F; 16GB DIMM | 8 | F; empty |] | | |
| | 9 | C; 16GB DIMM | 9 | C; empty | | | |

UDIMM maximum configuration (1 CPU model)

• 12GB, consisting of six (6) 2GB dual-rank PC3-10600 UDIMMs

| | | PU1 | | CPU2 | | |
|--------|-------|------------------|-------|------------------|--------|--|
| | slot# | population order | slot# | population order | | |
| Chnl 1 | 1 | G; empty | 1 | G; empty | Chnl 1 | |
| | 2 | D; 2GB DIMM | 2 | D; empty | | |
| | 3 | A; 2GB DIMM | 3 | A; empty | | |
| Chnl 2 | 4 | H; empty | 4 | H; empty | Chnl 2 | |
| | 5 | E; 2GB DIMM | 5 | E; empty | | |
| | 6 | B; 2GB DIMM | 6 | B; empty | | |
| Chnl 3 | 7 | l; empty | 7 | l; empty | Chnl 3 | |
| | 8 | F; 2GB DIMM | 8 | F; empty | | |
| | 9 | C; 2GB DIMM | 9 | C; empty | | |

Standard memory replaced with optional memory (2 CPU model) RDIMM maximum configuration (2 CPU model)

• 384GB, consisting of twelve (12) 32GB quad-rank PC3L-8500 RDIMMs



HP ProLiant DL380 Generation 7 (G7)

Memory

| | CF | PU1 | | CPU2 | |
|--------|-------|------------------|-------|------------------|--------|
| | slot# | population order | slot# | population order | |
| Chnl 1 | 1 | G; empty | 1 | G; empty | Chnl 1 |
| | 2 | D; 32GB DIMM | 2 | D; 32GB DIMM | |
| | 3 | A; 32GB DIMM | 3 | A; 32GB DIMM | 1 |
| Chnl 2 | 4 | H; empty | 4 | H; empty | Chnl 2 |
| | 5 | E; 32GB DIMM | 5 | E; 32GB DIMM |] |
| | 6 | B; 32GB DIMM | 6 | B; 32GB DIMM | 1 |
| Chnl 3 | 7 | l; empty | 7 | l; empty | Chnl 3 |
| | 8 | F; 32GB DIMM | 8 | F; 32GB DIMM | |
| | 9 | C; 32GB DIMM | 9 | C; 32GB DIMM |] |

UDIMM maximum configuration

• 48GB, consisting of twelve (12) 4GB dual-rank PC3-10600 UDIMMs

| | С | PU1 | | CPU2 | | |
|--------|-------|------------------|-------|------------------|--------|--|
| | slot# | population order | slot# | population order | | |
| Chnl 1 | 1 | G; empty | 1 | G; empty | Chnl 1 | |
| | 2 | D; 4GB DIMM | 2 | D; 4GB DIMM | | |
| | 3 | A; 4GB DIMM | 3 | A; 4GB DIMM | | |
| Chnl 2 | 4 | H; empty | 4 | H; empty | Chnl 2 | |
| | 5 | E; 4GB DIMM | 5 | E; 4GB DIMM | | |
| | 6 | B; 4GB DIMM | 6 | B; 4GB DIMM | | |
| Chnl 3 | 7 | l; empty | 7 | l; empty | Chnl 3 | |
| | 8 | F; 4GB DIMM | 8 | F; 4GB DIMM | | |
| | 9 | C; 4GB DIMM | 9 | C; 4GB DIMM | 7 | |

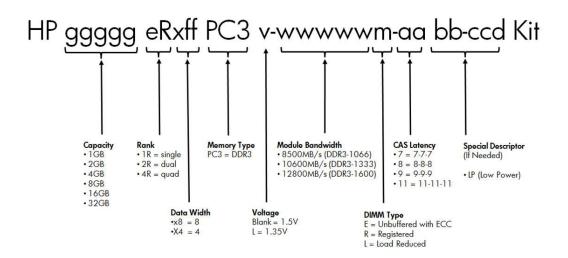
NOTE: Capacity references are rounded to the common Gigabyte values.

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

DDR3 memory options part number decoder



Memory



Following are memory optic

| ions available from HP: | |
|--|------------|
| Registered DIMMs (RDIMMs) | |
| HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit | 500656-B21 |
| HP 4GB (1x4GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit | 500658-B21 |
| HP 4GB (1x4GB) Single Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit | 593339-B21 |
| HP 4GB (1x4GB) Single Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit | 604504-B21 |
| NOTE: Low Voltage DIMMs can only be used with Intel® Xeon® processor 5600 series processors. | |
| HP 8GB (1x8GB) Dual Rank x4 PC3-10600 (DDR3-1333) Registered CAS-9 Memory Kit | 500662-B21 |
| HP 8GB (1x8GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 Low Power Memory Kit | 604506-B21 |
| NOTE: Low Voltage DIMMs can only be used with Intel® Xeon® processor 5600 series processors. | |
| HP 16GB (1x16GB) Quad Rank x4 PC3-8500 (DDR3-1066) Registered CAS-7 Memory Kit | 500666-B21 |
| HP 16GB (1x16GB) Dual Rank x4 PC3L-10600 (DDR3-1333) Registered CAS-9 LP Memory Kit | 627812-B21 |
| HP 32GB (1x32GB) Quad Rank x4 PC3L-8500 (DDR3-1066) Registered CAS-7 LP Memory Kit | 627814-B21 |
| Unbuffered with ECC DIMMs (UDIMMs) | |
| HP 1GB (1x1GB) Single Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit | 500668-B21 |
| HP 2GB (1x2GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit | 500670-B21 |
| HP 4GB (1x4GB) Dual Rank x8 PC3-10600 (DDR3-1333) Unbuffered CAS-9 Memory Kit | 500672-B21 |
| HP 4GB (1x4GB) Dual Rank x8 PC3L-10600 (DDR3-1333) Unbuffered CAS-9 Low Power Memory Kit | 619488-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. | |



Energy Efficient Features, see: www.hp.com/go/proliant-energy-efficient

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

HP ProLiant DL380 Generation 7 (G7)

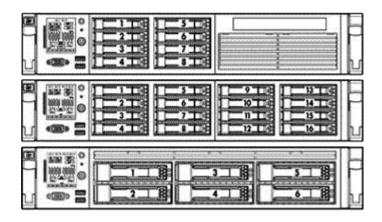
Memory

NOTE: PC3L is a low voltage memory



HP ProLiant DL380 Generation 7 (G7)

Storage



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

 NOTE: This configuration does not support optical drive.
- 1-6 Six LFF SAS hot plug hard drive baysNOTE: This configuration does not support optical drive.

Drive Support

| Removable Media | Quantity Supported | Position Supported | Controller |
|---|--|-----------------------|--------------------------------|
| HP Slim SATA DVD RW Optical Drive NOTE: Included in performance models. | Only 1 available removable media bay | Slimline bay | Integrated SATA NOTE: Optional |
| HP Slim SATA DVD-ROM Optical Drive | Only 1 available removable media bay | Slimline bay | Integrated SATA NOTE: Optional |

Hard Drives

NOTE: The components of a storage subsystem (e.g. the drive, the HBA/controller, firmware, and the server backplane) should operate at the same data transfer rate or the system bandwidth will be negotiated down to an acceptable level for all components. **NOTE:** Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

SAS Hot Plug SFF (2.5-inch) Enterprise (ENT) Drives

| Quantity Supported | Position Supported | Controller |
|-----------------------|-----------------------|--|
| Up to 8 | 1-8 | HP Smart Array P410/256 MB Controller |
| | | HP Smart Array P410/512 MB with BBWC Controller |
| | | HP Smart Array P410/512MB with FBWC |
| | | HP Smart Array P410/1G with FBWC |
| | | HP Smart Array P411/256MB Controller |
| | | HP Smart Array P411/512MB with BBWC Controller |
| | | HP Smart Array P411/512MB Flash Backed Write Cache |
| | | HP Smart Array P411/1G Flash Backed Write Cache |
| | | HP Smart Array P812/1G Flash Backed Cache Controller |
| | Supported | Supported Supported |

NOTE: Second SFF drive cage requires second controller or HP SAS Expander Card (PN 468406-B21).

SAS Hot Plug LFF (3.5-inch) Enterprise (ENT) Drives



HP ProLiant DL380 Generation 7 (G7)

Storage

| | Quantity Supported | Position Supported | Controller |
|--|-----------------------|-----------------------|--|
| 600GB 6G SAS 15K 450GB 6G SAS 15K 300GB 6G SAS 15K | Up to 6 | 1-6 | HP Smart Array P410/256 MB Controller HP Smart Array P410/512 MB with BBWC Controller HP Smart Array P410/512MB with FBWC HP Smart Array P410/1G with FBWC HP Smart Array P411/256MB Controller HP Smart Array P411/512MB with BBWC Controller HP Smart Array P411/512MB Flash Backed Write Cache HP Smart Array P411/1G Flash Backed Write Cache HP Smart Array P812/1G Flash Backed Cache Controller |
| SAS Hot Plug SFF (2.5-inch) | Midline (MDL) Driv | ves | |
| | Quantity | Position | |
| | Supported | Supported | Controller |
| 1TB 6G SAS 7.2K 500GB 6G SAS 7.2K | Up to 8 | 1-8 | HP Smart Array P410/256 MB Controller HP Smart Array P410/512 MB with BBWC Controller HP Smart Array P410/512MB with FBWC HP Smart Array P410/1G with FBWC HP Smart Array P411/256MB Controller HP Smart Array P411/512MB with BBWC Controller HP Smart Array P411/512MB Flash Backed Write Cache HP Smart Array P411/1G Flash Backed Write Cache HP Smart Array P812/1G Flash Backed Cache Controller |
| SAS Hot Plug LFF (3.5-inch) | Midline (MDL) Driv | /es | |
| | Quantity Supported | Position Supported | Controller |
| 3TB 6G SAS 7.2K 2TB 6G SAS 7.2K 1TB 6G SAS 7.2K | Up to 6 | 1-6 | HP Smart Array P410/256 MB Controller HP Smart Array P410/512 MB with BBWC Controller HP Smart Array P410/512MB with FBWC HP Smart Array P410/1G with FBWC HP Smart Array P411/256MB Controller HP Smart Array P411/512MB with BBWC Controller HP Smart Array P411/512MB Flash Backed Write Cache HP Smart Array P411/1G Flash Backed Write Cache HP Smart Array P812/1G Flash Backed Cache Controller |
| SATA Hot Plug SFF (2.5-inch | | rives | |
| | Quantity | Position | Controller |
| 1TB 3G SATA 7.2K 500GB 3G SATA 7.2K | Supported Up to 8 | Supported 1-8 | Controller HP Smart Array P410/256 MB Controller HP Smart Array P410/512 MB with BBWC Controller HP Smart Array P410/512MB with FBWC HP Smart Array P410/1G with FBWC HP Smart Array P411/256MB Controller HP Smart Array P411/512MB with BBWC Controller HP Smart Array P411/512MB Flash Backed Write Cache HP Smart Array P411/1G Flash Backed Write Cache |



HP Smart Array P812/1G Flash Backed Cache Controller

HP ProLiant DL380 Generation 7 (G7)

Storage

SATA Hot Plug LFF (3.5-inch) Midline (MDL) Drives

| | Quantity Supported | Position Supported | Controller |
|--|-----------------------|-----------------------|---|
| 4TB 3G SATA 7.2K 3TB 3G SATA 7.2K 2TB 3G SATA 7.2K 1TB 3G SATA 7.2K 500GB 3G SATA 7.2K | Up to 6 | 1-6 | HP Smart Array P410/256 MB Controller HP Smart Array P410/512 MB with BBWC Controller HP Smart Array P410/512MB with FBWC HP Smart Array P410/1G with FBWC HP Smart Array P411/256MB Controller HP Smart Array P411/512MB with BBWC Controller HP Smart Array P411/512MB Flash Backed Write Cache |
| SATA Hot Plug LFF (3.5-inch | n) Entry (ETY) Drive | es. | HP Smart Array P411/1G Flash Backed Write Cache HP Smart Array P812/1G Flash Backed Cache Controller |

| | Quantity Supported | Position Supported | Controller |
|----------------------------|-----------------------|-----------------------|---|
| 250GB 3G SATA 7.2K Up to 6 | Up to 6 | 1-6 | HP Smart Array P410/256 MB Controller HP Smart Array P410/512 MB with BBWC Controller |
| | | | HP Smart Array P410/512MB with FBWC |
| | | | HP Smart Array P410/1G with FBWC |
| | | | HP Smart Array P411/256MB Controller |
| | | | HP Smart Array P411/512MB with BBWC Controller |
| | | | HP Smart Array P411/512MB Flash Backed Write Cache |
| | | | HP Smart Array P411/1G Flash Backed Write Cache |
| | | | HP Smart Array P812/1G Flash Backed Cache Controller |

SATA Hot Plug 2.5" Enterprise Mainstream Solid State Drives

| | Quantity Supported | Position Supported | Controller |
|---|-----------------------|-----------------------|--|
| 400GB 3.0G SATA 200GB 3.0G SATA 100GB 3.0G SATA | Up to 8 | 1-8 | HP Smart Array P410/256 MB Controller HP Smart Array P410/512 MB with BBWC Controller HP Smart Array P410/512MB with FBWC HP Smart Array P410/1G with FBWC HP Smart Array P411/256MB Controller HP Smart Array P411/512MB with BBWC Controller HP Smart Array P411/512MB Flash Backed Write Cache HP Smart Array P411/1G Flash Backed Write Cache HP Smart Array P812/1G Flash Backed Cache Controller |

SATA Hot Plug 3.5" Midline (MDL) Solid State Drives

| | Quantity Supported | Position Supported | Controller |
|-----------------|-----------------------|-----------------------|--|
| 400GB 3.0G SATA | Up to 6 | 1-6 | HP Smart Array P410/256 MB Controller |
| 200GB 3.0G SATA | | | HP Smart Array P410/512 MB with BBWC Controller |
| 120GB 3.0G SATA | | | HP Smart Array P410/512MB with FBWC |
| 100GB 3.0G SATA | | | HP Smart Array P410/1G with FBWC |
| 60GB 3.0G SATA | | | HP Smart Array P411/256MB Controller |
| | | | HP Smart Array P411/512MB with BBWC Controller |
| | | | HP Smart Array P411/512MB Flash Backed Write Cache |
| | | | HP Smart Array P411/1G Flash Backed Write Cache |



HP ProLiant DL380 Generation 7 (G7)

Storage

HP Smart Array P812/1G Flash Backed Cache Controller

| | Quantity Supported | Position Supported | Controller |
|--|-----------------------|-----------------------|--|
| 200GB 6G SAS SLC SFF 400GB 6G SAS SLC SFF | Up to 8 | 1-8 | HP Smart Array P410/256 MB Controller HP Smart Array P410/512 MB with BBWC Controller HP Smart Array P410/512MB with FBWC HP Smart Array P410/1G with FBWC HP Smart Array P411/256MB Controller HP Smart Array P411/512MB with BBWC Controller HP Smart Array P411/512MB Flash Backed Write Cache HP Smart Array P411/1G Flash Backed Write Cache HP Smart Array P812/1G Flash Backed Cache Controller |

6G SAS Hot Plug Enterprise Mainstream Solid State Drives

| | Quantity Supported | Position Supported | Controller |
|--|-----------------------|-----------------------|--|
| 800GB 6G SAS MLC SFF 400GB 6G SAS MLC SFF 200GB 6G SAS MLC SFF | Up to 8 | 1-8 | HP Smart Array P410/256 MB Controller HP Smart Array P410/512 MB with BBWC Controller HP Smart Array P410/512MB with FBWC HP Smart Array P410/1G with FBWC HP Smart Array P411/256MB Controller HP Smart Array P411/512MB with BBWC Controller HP Smart Array P411/512MB Flash Backed Write Cache HP Smart Array P411/1G Flash Backed Write Cache HP Smart Array P812/1G Flash Backed Cache Controller |

External Storage

| - | Quantity Supported | Position Supported | Host Controller or Adapter |
|----------------------|-----------------------|-----------------------|---|
| D2600 Disk Enclosure | Up to 8 | External | HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB Controller HP Smart Array P411/1G Flash Backed Cache Controller HP Smart Array P812/1G Flash Backed Cache Controller |
| D2700 Disk Enclosure | Up to 4 | External | HP Smart Array P411/256 MB Controller HP Smart Array P411/512 MB BBWC Controller HP Smart Array P411/1G Flash Backed Cache Controller HP Smart Array P812/1G Flash Backed Cache Controller |



HP ProLiant DL380 Generation 7 (G7)

Storage

Maximum Storage Capacity - (with D2700, DL380 G7 SFF SAS HDD)

Internal 19.2TB (16 x 1.2TB SAS SFF with addition 8 SFF drive cage)

External 120TB (100 x 1.2TB SAS SFF)

Total 139.2TB

Maximum Storage Capacity - (with D2700, DL380 G7 LFF SATA HDD)

Internal 24TB (16 x 4TB SATA LFF)

External 120TB (100 x 1.2TB SAS SFF)

Total 144TB

Tape and Disk Backup

NOTE: For the complete range of tape drives, autoloaders, libraries and media, including the internal fitting models, see: http://www.hp.com/go/tape. For the complete range of D2D Backup Systems see: http://www.hp.com/go/d2d. For the complete range of RDX drives and media see: http://www.hp.com/go/rdx. For hardware and software compatibility of HP disk and tape backup products see: http://www.hp.com/storage/SPOCK.

| | Position Supported | Controller | Part Number |
|---|-----------------------|---|-------------|
| HP SCSI Tape Drives, External LTO-1 Ultrium 232 LTO-2 Ultrium 448 LTO-3 Ultrium 920 LTO-3 Ultrium 960 LTO4 Ultrium 1760 | External | HP SC11Xe Ultra320 Single Channel/ PCIe x4 SCSI Host Bus Adapter NOTE: Please check the full compatibility information at: | 412911-B21 |
| LTO-4 Ultrium 1840 DAT 40 DAT 72 DAT 160 1U Rack-Mount Kit 3U Rack-Mount Kit | | http://www.hp.com/storage/SPOCK | |
| HP USB Tape Drives, External DAT 40 DAT 72 DAT 160 DAT 320 1U USB Rack-Mount Kit | External | USB 2.0 Port | N/A |
| HP SAS Tape Drives, External DAT 160 DAT 320 LTO-2 Ultrium 448 LTO-3 Ultrium 920 | External | HP Smart Array P212/ZM 1-ports Int/1-ports Ext PCIe x8 SAS Controller | 462828-B21 |



HP ProLiant DL380 Generation 7 (G7)

| Storage LTO-4 Ultrium 1760 LTO-4 Ultrium 1840 LTO-5 Ultrium 3000 | | | _ |
|--|----------|--|------------|
| LTO-5 Ultrium 3280 1U Rack-Mount Kit 3U Rack-Mount Kit | | | |
| HP SAS Tape Drives, External DAT 160 DAT 320 LTO-2 Ultrium 448 LTO-3 Ultrium 920 LTO-4 Ultrium 1760 LTO-4 Ultrium 1840 LTO-5 Ultrium 3000 LTO-5 Ultrium 3280 1U Rack-Mount Kit 3U Rack-Mount Kit | External | HP SC11Xe Ultra320 Single Channel/ PCIe x4 SCSI Host Bus Adapter | 412911-B21 |
| HP SCSI Tape Libraries, External MSL2024 MSL4048 MSL8096 | External | HP U320e SCSI Dual Channel Host Bus Adapter NOTE: Please check the full compatibility information at: http://www.hp.com/storage/SPOCK | AH627A |
| MSL6000 | | | |
| HP SAS Tape Autoloaders and Libraries, External 1/8 G2 Autoloader | External | HP Smart Array P212/ZM 1-ports Int/1-ports Ext PCIe x8 SAS Controller | 462828-B21 |
| MSL2024 MSL4048 MSL8096 | | NOTE: Please check the full compatibility information at: http://www.hp.com/storage/SPOCK | |
| HP Fibre Channel Tape Libraries, External MSL2024 MSL4048 MSL8096 MSL6000 | External | Please consult the EBS connectivity matrix at: http://www.hp.com/go/ebs for connectivity information and the supported Fibre Channel HBAs shown in this QuickSpecs. | N/A |
| HP USB RDX Removable Disk Backup System, External RDX160 RDX320 RDX500 RDX750 | External | USB 2.0 port | N/A |



HP ProLiant DL380 Generation 7 (G7)

Storage

RDX1TB

HP D2D Backup Systems,

iSCSI

D2D2500i D2D4000i **Rack Mount** Embedded Network Controller. If the server requires a hardware

iSCSI initiator, the QLogic QLA4050 Host Bus Adapter is

recommended.

HP D2D Backup Systems, Rack Mount

Fibre Channel D2D4000fc

Direct server attach is not supported, requires connection via SAN

fabric. See: http://www.hp.com/storage/SPOCK

N/A

N/A



HP ProLiant DL380 Generation 7 (G7)

Power Specifications

| HP 460W Common Slot Gold Hot Plug Power Supply Kit | | | | | | | |
|--|------------|------|------|------|------|------|------|
| Part Number | 503296-B2 | 21 | | | | | |
| Input Voltage Range (V rms) | 100 to 240 |) | | | | | |
| Frequency Range (Nominal) (Hz) | 50/60 | | | | | | |
| Nominal Input Voltage (Vrms) | 100 | 120 | 200 | 208 | 220 | 230 | 240 |
| Maximum Rated Output Wattage Rating | 460 | 460 | 460 | 460 | 460 | 460 | 460 |
| Nominal Input Current (A rms) | 5.5 | 4.5 | 2.6 | 2.5 | 2.4 | 2.3 | 2.2 |
| Maximum Rated Input Wattage Rating (Watts) | 526 | 520 | 505 | 505 | 503 | 503 | 503 |
| Maximum Rated VA (Volt-Amp) | 548 | 542 | 527 | 527 | 524 | 524 | 524 |
| Efficiency (%) | 87.5 | 88.5 | 91 | 91 | 91.5 | 91.5 | 91.5 |
| Power Factor | | | | 0.97 | | | |
| Leakage Current (mA) | 0.42 | 0.50 | 0.83 | 0.87 | 0.92 | 0.96 | 1.00 |
| Maximum Inrush Current (A peak) | | | | 30 | | | |
| Maximum Inrush Current duration (mS) | | | | 20 | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 1794 | 1773 | 1725 | 1725 | 1715 | 1715 | 1715 |

| HP 460W Common Slot Platinum Hot Plug Power S | Supply Kit | | | | | | |
|--|------------|------------|------|-------|------|------|------|
| Part Number | 593188-B | 593188-B21 | | | | | |
| Input Voltage Range (V rms) | 100 to 240 |) | | | | | |
| Frequency Range (Nominal) (Hz) | 50/60 | | | | | | |
| Nominal Input Voltage (Vrms) | 100 | 120 | 200 | 208 | 220 | 230 | 240 |
| Maximum Rated Output Wattage Rating | 460 | 460 | 460 | 460 | 460 | 460 | 460 |
| Nominal Input Current (A rms) | 5.3 | 4.3 | 2.5 | 2.4 | 2.3 | 2.2 | 2.1 |
| Maximum Rated Input Wattage Rating (Watts) | 512 | 505 | 493 | 493 | 492 | 492 | 491 |
| Maximum Rated VA (Volt-Amp) | 526 | 518 | 506 | 506 | 505 | 505 | 504 |
| Efficiency (%) | 89.8 | 91.2 | 93.2 | 93.3 | 93.5 | 93.6 | 93.6 |
| Power Factor | | | | 0.985 | | | |
| Leakage Current (mA) | 0.42 | 0.50 | 0.83 | 0.87 | 0.92 | 0.96 | 1.00 |
| Maximum Inrush Current (A peak) | | 30 | | | | | |
| Maximum Inrush Current duration (mS) | | | | 20 | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 1747 | 1722 | 1683 | 1682 | 1679 | 1678 | 1677 |



HP ProLiant DL380 Generation 7 (G7)

Power Specifications

| HP 750W Common Slot Gold Hot Plug Power Supply Kit | | | | | | | |
|--|------------|------|------|------|------|------|------|
| Part Number | 512327-B2 | 21 | | | | | |
| Input Voltage Range (V rms) | 100 to 240 |) | | | | | |
| Frequency Range (Nominal) (Hz) | 50/60 | | | | | | |
| Nominal Input Voltage (Vrms) | 100 | 120 | 200 | 208 | 220 | 230 | 240 |
| Maximum Rated Output Wattage Rating | 750 | 750 | 750 | 750 | 750 | 750 | 750 |
| Nominal Input Current (A rms) | 8.9 | 7.4 | 4.3 | 4.1 | 3.9 | 3.7 | 3.6 |
| Maximum Rated Input Wattage Rating (Watts) | 857 | 847 | 824 | 824 | 820 | 820 | 820 |
| Maximum Rated VA (Volt-Amp) | 894 | 884 | 859 | 854 | 854 | 854 | |
| Efficiency (%) | 87.5 | 88.5 | 91 | 91 | 91.5 | 91.5 | 91.5 |
| Power Factor | | | | 0.97 | | | |
| Leakage Current (mA) | 0.42 | 0.50 | 0.83 | 0.87 | 0.92 | 0.96 | 1.00 |
| Maximum Inrush Current (A peak) | 30 | | | | | | |
| Maximum Inrush Current duration (mS) | | | | 20 | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 2925 | 2892 | 2812 | 2812 | 2797 | 2797 | 2797 |

| HP 750W Common Slot Platinum Hot Plug Power Supply Kit | | | | | | | |
|--|------------|------------|------|-------|------|------|------|
| Part Number | 593831-B2 | 593831-B21 | | | | | |
| Input Voltage Range (V rms) | 100 to 240 | | | | | | |
| Frequency Range (Nominal) (Hz) | 50/60 | | | | | | |
| Nominal Input Voltage (Vrms) | 100 | 120 | 200 | 208 | 220 | 230 | 240 |
| Maximum Rated Output Wattage Rating | 750 | 750 | 750 | 750 | 750 | 750 | 750 |
| Nominal Input Current (A rms) | 8.6 | 7.1 | 4.2 | 4.0 | 3.8 | 3.6 | 3.4 |
| Maximum Rated Input Wattage Rating (Watts) | 841 | 828 | 809 | 808 | 807 | 806 | 805 |
| Maximum Rated VA (Volt-Amp) | 863 | 850 | 830 | 829 | 828 | 827 | 826 |
| Efficiency (%) | 89.2 | 90.6 | 92.7 | 92.8 | 93 | 93.1 | 93.2 |
| Power Factor | | | | 0.985 | | | |
| Leakage Current (mA) | 0.42 | 0.50 | 0.83 | 0.87 | 0.92 | 0.96 | 1.00 |
| Maximum Inrush Current (A peak) | 30 | | | | | | |
| Maximum Inrush Current duration (mS) | | | | 20 | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 2868 | 2825 | 2761 | 2757 | 2753 | 2749 | 2747 |



HP ProLiant DL380 Generation 7 (G7)

Power Specifications

| HP 1200W Common Slot Platinum Hot Plug Power Supply Kit | | | | | | | |
|---|------------|------|------|------|------|------|------|
| Part Number | 578322-B2 | 21 | | | | | |
| Input Voltage Range (V rms) | 100 to 240 |) | | | | | |
| Frequency Range (Nominal) (Hz) | 50/60 | | | | | | |
| Nominal Input Voltage (Vrms) | 100 | 120 | 200 | 208 | 220 | 230 | 240 |
| Maximum Rated Output Wattage Rating | 800 | 900 | 1200 | 1200 | 1200 | 1200 | 1200 |
| Nominal Input Current (A rms) | 9.3 | 8.6 | 6.7 | 6.5 | 6.1 | 5.8 | 5.6 |
| Maximum Rated Input Wattage Rating (Watts) | 889 | 989 | 1290 | 1290 | 1290 | 1290 | 1290 |
| Maximum Rated VA (Volt-Amp) | 927 | 1031 | 1345 | 1345 | 1345 | 1345 | 1345 |
| Efficiency (%) | 90 | 91 | 93 | 93 | 93 | 93 | 93 |
| Power Factor | | | | 0.97 | | | |
| Leakage Current (mA) | 0.42 | 0.50 | 0.83 | 0.87 | 0.92 | 0.96 | 1.00 |
| Maximum Inrush Current (A peak) | 30 | | | | | | |
| Maximum Inrush Current duration (mS) | | | | 20 | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 3033 | 3375 | 4403 | 4403 | 4403 | 4403 | 4403 |

| HP 1200W Common Slot -48VDC Hot Plug Power Supply Kit | | | | | | | |
|---|------------|------------|------|--|--|--|--|
| Part Number | 437573-B21 | 437573-B21 | | | | | |
| Input Voltage Range (V rms) | 36-72 | | | | | | |
| Frequency Range (Nominal) (Hz) | DC | | | | | | |
| Nominal Input Voltage (Vrms) | 36 | 48 | 72 | | | | |
| Maximum Rated Output Wattage Rating | 1200 | 1200 | 1200 | | | | |
| Nominal Input Current (A rms) | 38 | 28 | 19 | | | | |
| Maximum Rated Input Wattage Rating (Watts) | 1380 | 1350 | 1365 | | | | |
| Maximum Rated VA (Volt-Amp) | 1380 | 1350 | 1365 | | | | |
| Efficiency (%) | 87 | 89 | 88 | | | | |
| Power Factor | | N/A | | | | | |
| Leakage Current (mA) | | N/A | | | | | |
| Maximum Inrush Current (A peak) | 20 | 25 | 35 | | | | |
| Maximum Inrush Current duration (mS) | 1 | 1 | 3 | | | | |
| Maximum British Thermal Unit Rating (BTU-Hr) | 4713 | 4610 | 4662 | | | | |

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



HP ProLiant DL380 Generation 7 (G7)

Technical Specifications

Dimensions $(H \times W \times D)$ **System Unit**

(with bezel)

SFF Drives: 3.38 x 17.54 x 27.25 in (8.59 x 44.55 x 69.22 cm) LFF Drives: 3.38 x 17.54 x 29.25 in (8.59 x 44.55 x 74.30 cm)

Weight (approximate) Maximum 60.00 lb (27.27 kg)

> (all hard drives, power supply, and processor

installed)

Minimum 47.18 lb (21.45 kg)

(one hard drive, power supply, and processor

installed)

Input Requirements (per power supply)

Rated Line Voltage

100 to 120 VAC 200 to 240 VAC

Rated Input Current For 1200 W Power Supply:

> 10 A (at 100 VAC), 4.9 A (at 200 VAC) For 750 W Power Supply: 8.9 A (at 100 VAC). 4.3 A (at 200 VAC) For 460 W Power Supply: 5.5 A (at 100 VAC), 2.6 A (at 200 VAC)

Rated Input Frequency

Rated Input Power For 1200 W Power Supply:

50 to 60 Hz

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 Specifications NOTE: To review typical system power ratings use the HP Power Advisor

which is available online located at url: www.hp.com/go/proliant-energy-

efficient or www.hp.com/go/hppoweradvisor

Power Supply Output

(per power supply)

Rated Steady-State Power For 1200 W Power Supply:

800 W (at 100 VAC),

900 W (at 120 VAC),

1200 W (at 200 to 240 VAC) For 750 W Power Supply:



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| | Maximum Peak Power | 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) 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 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 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, non-condensing. |
| | Non-operating | 5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing. |
| Altitude | Operating | 3050 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457 m/min (1500 ft/min). |
| | Non-operating | 9144 m (30,000 ft). Maximum allowable altitude change rate is 457 m/min (1500 ft/min). |
| Acoustic Noise | average bystander position | Neighted sound power levels (LWAd) and declared n A-Weighted sound pressure levels (LpAm) when a 23°C ambient environment. Noise emissions were |

average bystander position 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).

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

| Idle | | 1P SKU | 2P SKU |
|------|------|--------|--------|
| | LWAd | 4.1 B | 4.7 B |
| | LpAm | 22 dBA | 28 dBA |

Operating

QuickSpecs

HP ProLiant DL380 Generation 7 (G7)

2P SKU

Technical Specifications

| | LWAd | 4.1 B | 4.7 B | |
|---------------------------------|---------------------|--|----------------------|--|
| | LpAm | 22 dBA | 28 dBA | |
| Emissions Classification | FCC Rating | Class A | | |
| (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

1P SKU

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.

Integrated Lights-Out 3 (iLO 3)

integrated on system board

Architecture PCI Express based health and remote management ASIC **Processor** PCI Express RISC processor core running at 250MHz Upgradeability Option firmware upgradeable via Flash ROM

Video Support 1600 x 1200 DVR max resolution

Interfaces One Ethernet Sideband connection (10/100/1000 Mb/s)

One Ethernet network connection (10/100Mb/s)

Memory 128-MB DDR with ECC

Microsoft Windows 2008 R2 **Operating System** Support

Microsoft Windows 2008 (32 bit and 64 bit)

Microsoft Windows Server 2008 Standard Edition (32 bit and 64 bit) Microsoft Windows Server 2008 Enterprise Edition (32 bit and 64 bit)

Microsoft Windows Server 2003 and Windows Server 2003 R2, and Windows Server 2003 for Embedded Systems Standard Edition, Enterprise Edition

Red Hat Enterprise Linux 5.4 (32 bit and 64 bit) SUSE LINUX Enterprise Server 11 (32 bit and 64 bit) SUSE LINUX Enterprise Server 10 (32 bit and 64 bit)

VMware ESX 4.0 VMware ESX 3.5.0 Microsoft Windows 7

Microsoft Windows XP Professional Edition

Microsoft Windows Vista Business and Ultimate Editions

Client System Support Red Hat Enterprise Desktop 5.00

> SUSE Linux Enterprise Desktop 11 SUSE Linux Enterprise Desktop 10 Microsoft Internet Explorer 8 Microsoft Internet Explorer 7



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Client Browser Support Microsoft Internet Explorer 6

> Firefox 3.5 (on supported Windows and Linux systems) Firefox 3.0 (on supported Windows and Linux systems)

Command Line Support Secure Shell and serial port access

Security Secure Socket Laver Secure Shell version 2

Advanced Encryption Standard (AES) and Triple Data Encryption Standard

(3DES) on browser, CLP and XML scripting interface

AES encryption of video RC4 encryption of video

Directory Support

Services

Active Directory v1.0 (Windows 2003)

Driver Support HP ProLiant iLO3 Management Controller Driver Package

Management protocols

supported

SNMP, IPMI 2.0 (system and LAN interface), DMTF Systems Management Architecture for Server Hardware Command Line Protocol (SMASH CLP), HP

RIBCL XML

Smart Array P410i Controller

Dimensions Embedded

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

Interface - transfer rate 3Gb/s SATA (Serial ATA) **SAS Connectors** 2 internal 4X connectors

DDR2-800MHz with 40 or 72-bit wide bus **Cache Memory Speed**

x4 PCIe 2.0 provides 4GB/s maximum bandwidth Server Interface

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

Cache Memory Zero Memory RAID has no cache memory

40-bit 256MB ECC protected cache (battery upgrade available)

72-bit 512MB BBWC or 72-bit 512MB and 1G FBWC Zero Memory, Up to 2 logical volumes (8 physical drives)

Logical Drives Supported Up to 64 logical drives with cache

Host Memory Addressing

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

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

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

 256 MB cache, Battery kit and Smart Array Advanced Pack License key option upgrades

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

• 1G FBWC and Smart Array Advanced Pack License key option upgrades

RAID 5, 5+0 (Distributed Data Guarding)

NOTE: A minimum or 256 MB cache is required to enable RAID 5, 5+0 support

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



HP ProLiant DL380 Generation 7 (G7)

Technical Specifications

Two HP NC382i Dual Port **Multifunction Gigabit Server Adapters**

Network Interface Compatibility

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

EEE 802.3 10Base-T

IEEE 802.3ab 1000Base-T IEEE 802.3u 100Base-TX IEEE 802.3ad 1000Base-TX IEEE 802.1p 100Base-TX

IEEE 802.1q 100Base-TX

Data Transfer Method

PCI Express, four lanes (x4)

Controller

BCM5709C

Network Transfer Rate

10Base-T (Half-Duplex) 10 Mb/s

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

Full-Duplex) Two RJ-45

Connector

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)

Environment-friendly Products and Approach

and Recycling

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

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



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Technical Specifications

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

