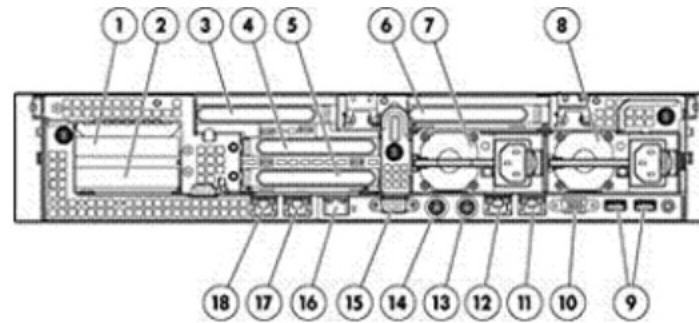
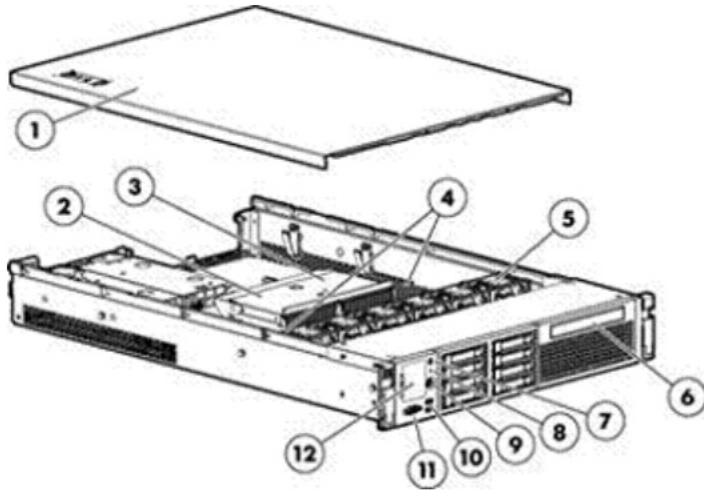


QuickSpecs

HP ProLiant DL385 Generation 5p (G5p)

Overview



Front View:

1. Quick removal access panel
2. AMD Quad-Core or Six-Core Processors (Performance models include two processors)
3. Second AMD Quad-Core or Six-Core Processor
4. Sixteen sockets for PC2-6400 DIMMs (800MHz) with Advanced ECC
5. Hot-plug fans, full redundancy
6. Slim SATA DVD-RW Optical Drive included on Performance models
7. UID LED button
8. 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. iLO2 connector
17. NIC 3 connector

Overview

Deploy more virtual machines with confidence with the new HP ProLiant DL385 G5p that offers twice the memory, double the NICs, and up to 16 drives.

- **Processors:**
 - AMD Quad-Core, 2300 series processors; or Six-Core 2400 series processors with 6MB Level 3 cache for blazing performance; systems support up to 2 processors (2 processors standard on all Performance models)
 - Preconfigured Performance models save valuable deployment time at a discounted bundle price
 - Serverworks HT-2100 Northbridge and HT-1000 Southbridge chipset
- **Memory:**
 - Up to 128 GB (with PC2-5300 8GB DIMMs). PC2-6400 800MHz DDR2 Select models support 2:1 Bank Interleaving, 4:1 Bank Interleaving (Data saved across 2 pairs of DIMMs) and Node interleaving support (data saved across 2 processors memory sets) also available.
- **Storage Controller:**
 - Base Models: HP Smart Array P400/256 MB Controller (RAID 0/1/1+0/5)
 - Upgrade to 512MB cache w/o Battery Backed Write Cache module, optional BBWC
 - The Smart Array P400/256 MB Controller ships installed in slot 3 (slots 1-2 are available)
 - High Performance Models: HP Smart Array P400/512MB BBWC Controller (RAID 0/1/0+1/5/6)
- **Internal Drive Support:**
 - Up to 16 small form factor (SFF) or up to 6 large form factor (LFF) hot-plug drive bays to support Serial-attached SCSI (SAS) and Serial ATA (SATA) drives
- **Network Controller:**
 - Two HP NC382i Dual Port Multifunction Gigabit Server Adapters (four ports total)
- **Expansion Slots:**
 - Up to 6 PCI slots (one occupied by controller)
 - Standard BTO riser with PCIe (1) x8 FL/FH, (2) x4 HL/FH
 - Optional second risers with PCIe (1) x8, (2) x4 or a PCIe/PCI-X mixed riser with (1) PCI-X, (1) x8, (1) x4 or a HiPerf 225w PCIe riser with (1) x16
- **USB 2.0 Ports:**
 - 5 total ports: (2) ports in front; (2) ports in back; (1) port internal
- **Redundancy:**
 - Fully redundant hot plug fans
 - Hot plug power supply with optional redundancy (Included in Performance models)
- **Power Supply:**
 - Dual Common Slot Bay for Right Sized, Hot plug and Redundant Power options
 - HP 1200W CS HE Silver Power Supply
 - HP 750W CS HE Gold Power Supply
 - HP 460W CS HE Gold Power Supply
 - HP 1200W -48V DC CS Power Supply
- **Infrastructure Management:**
 - Convenient slide-out Systems Insight Display for quick and easy front view server diagnostics, along with status LEDs, Automatic Server Recovery (ASR), ROM Based Setup Utility (RBSU)
 - HP ProLiant Onboard Administrator (powered by the HP Integrated Lights-Out 2 management processor) for simplified

Overview

- **Deployment/Serviceability:**
 - System Insight Display on the front bezel for quick and easy server diagnostics
 - Quick Deploy Rail System includes sliding universal rails, an ambidextrous cable management arm and quick release levers for fast and easy serviceability
 - Tool-less access to all system components for easy in rack serviceability
 - Customer Self Repair (CSR): HP products are designed with many CSR parts to minimize repair time and allow for greater flexibility in performing defective parts replacement
- **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>

Standard Features

NOTE: For a brief, printer friendly data sheet that describes this product and informs you of the essential capabilities and specifications, please visit: <http://h71028.www7.hp.com/ERC/downloads/4AA2-2599ENW.pdf>.

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

Quad-Core Processors

AMD Opteron™ Processor 2389 (2.9 GHz, 75Watts)

AMD Opteron™ Processor 2387 (2.8 GHz, 75Watts)

AMD Opteron™ Processor 2381HE (2.5 GHz, 55Watts)

AMD Opteron™ Processor 2376HE (2.3 GHz, 55Watts)

AMD Opteron™ Processor 2372HE (2.1 GHz, 55Watts)

AMD Opteron™ Processor 2384 (2.7 GHz, 75 Watts)

AMD Opteron™ Processor 2382 (2.6 GHz, 75 Watts)

AMD Opteron™ Processor 2378 (2.4 GHz, 75 Watts)

Six-Core Processors

AMD Opteron™ Processor 2435 (2.6 GHz, 75Watts) (option kit only)

AMD Opteron™ Processor 2431 (2.4 GHz, 75Watts) (option kit only)

AMD Opteron™ Processor 2427 (2.2 GHz, 75Watts) (option kit only)

NOTE: Processor wattage references reflect Average CPU Power (ACP). For more information on ACP visit: <http://www.amd.com/powernow>.

NOTE: Up to 2 processors supported. High Performance Model configurations include two processors, 4GB system memory, 512MB storage controller memory, BBWC, DVDRW, Redundant Power Supplies, and 6 hot plug redundant fans.

Cache Memory

6MB Level 3 cache

Chipset

Serverworks HT-2100 Northbridge and HT-1000 Southbridge Chipset

Upgradeability

Upgradeable to 2 processors

Memory Protection

Advanced ECC

QuickSpecs

HP ProLiant DL385 Generation 5p (G5p)

Standard Features

Memory	Type	PC2-6400 DIMMs (DDR2-800MHz) Select models support 2:1 Bank Interleaving, with 4:1 Bank Interleaving (Data saved across 2 pairs of DIMMs) and Node interleaving support (data saved across 2 processors memory sets) available. NOTE: If only one processor is installed, only half of the DIMM slots are available.
	Standard (Base Models)	2 GB (2 x 1 GB)
	Standard (Performance Models)	4 GB (4 x 1 GB)
	Maximum	128 GB (16 x 8 GB) (PC2-5300)

Network Controller	Two HP NC382i Dual Port Multifunction Gigabit Server Adapters (four ports total) NOTE: 1GB of memory is sufficient to support up to eight Total Ports. 2GB of memory is required if nine or more Total Ports have been selected. NOTE: Accelerated iSCSI available as a standard feature at no additional cost on this server.
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Expansion Slots

Non-Hot Plug PCI riser board slot definitions	Primary Slot form factor	Secondary Slot form factor	PCIe riser slot description	PCIe x16 riser slot description	PCIe/PCI-X riser slot description
	1 - FL/FH	4 - FL/FH	PCIe x16 (8,4,1)	PCIe x16 (16,8,4,1)	PCI-X 64bit/133MHz
	2 - HL/FH	5 - LP	PCIe x8 (4,1)		PCIe x16 (8,4,1)
	3 - HL/FH	6 - LP	PCIe x8 (4,1)		PCIe x8 (4,1)

NOTE: "Primary" denotes the riser cards are installed in the primary riser connector.

NOTE: "Secondary" denotes the riser cards are installed in the secondary riser connector.

NOTE: FL/FH denotes full-length, full-height. HL/FH denotes half-length, full height. LP denotes lower profile.

NOTE: The PCIe x16 riser supports a maximum power of 225W with an HP power cable. The HP power cable must be used for PCIe card wattages greater than 75W.

NOTE: The System Standard Configuration in this server comes with the following three PCI-Express Slots: (1) FH x8 PCI-Express slots; (2) FH x4 PCI express slots (BTO models only - 1 slot consumed by P400 controller)

QuickSpecs

HP ProLiant DL385 Generation 5p (G5p)

Standard Features

Storage Controller
One of the following depending on Model

Base Models: HP Smart Array P400/256 MB Controller (RAID 0/1/1+0/5)
Available upgrades: 512MB memory module with BBWC for RAID 0/1/1+0/5/6, battery for battery-backed write cache (BBWC).
High Performance Models: HP Smart Array P400/512 MB BBWC Controller (RAID 0/1/1+0/5/6)

Storage

Diskette Drive None Standard
Optical Drive None Standard
One of the following depending on Model HP Slim SATA DVD RW Optical Drive Standard on Performance Models
Hard Drives None Standard

Maximum Internal Storage

Hot Plug SFF SAS	8.0TB	16 x 500GB with standard internal hot plug SFF SAS (with optional drive cage)
Hot Plug LFF SAS	12.0TB	6 x 2TB (with optional drive cage)

Intelligent Manageability

HP Systems Insight Manager software
SmartStart
Management Agent
Redundant ROM
Remote Flash ROM
ROM-Based Setup Utility (RBSU)
Integrated Management Log
Automatic Server Recovery (ASR)
Dynamic Sector Repairing (with Smart Array controller)
Drive Parameter Tracking (with Smart Array controller)
Pre-Failure Warranty (covers processors, SAS hard drives and memory)

Interfaces

Serial	1
Pointing Device (Mouse)	1
Graphics	1
Keyboard	1
VGA	2 (1 front, 1 back)
Network RJ-45	4
iLO remote management port	1

QuickSpecs

HP ProLiant DL385 Generation 5p (G5p)

Standard Features

Graphics

Integrated ATI ES1000, 32MB 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 remote console is 1280 x 1024.

Form Factor

Rack (2U), (3.5-inch)

HP Insight management software

HP Insight Foundation

Managing the growing number of servers can be complex and expensive for your organization. IT managers need to address changing business needs with tools that meet the challenges of managing today's complex Datacenters.

HP provides management solutions that are designed to simplify a server's installation, configuration and maintenance throughout the entire server lifecycle. This provides the customer with higher levels of operational efficiency and highly reliable systems: <http://www.hp.com/go/foundation>. The foundation pack includes:

- HP SmartStart
- HP Management
- HP ProLiant Firmware Maintenance

SmartStart version supported (minimum): SmartStart 8.15.
<http://www.hp.com/servers/smartstart>

ProLiant Onboard Administrator

HP ProLiant Onboard Administrator (powered by the HP Integrated Lights-Out 2 management processor) simplifies server setup, health monitoring, power and thermal control, and lights-out remote administration of ProLiant ML, DL, and BL servers. HP ProLiant Onboard Administrator functions without additional software, and can be accessed from any location via a web browser. It works hand-in-hand with HP Systems Insight Manager, Insight Control suites, and the Insight Dynamics for ProLiant helping customers unlock the value of the ProLiant platform and deliver the highest possible quality of IT service to the business. See www.hp.com/go/ProLiantOA

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.