HP ProLiant DL360 G6 Server - Overview

Product description

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Disclaimer

Product description

The HP ProLiant DL360 G6 targets cost sensitive 1U dense environment, which value the strong ProLiant manageability features incorporated into our enterprise portfolio offering. The DL360 G6 steps up the fault tolerant in an Ultra-Dense platform with redundant power, redundant fans, mirrored memory, embedded RAID capability, and Full-Featured remote Lights-Out management.

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Product features

Feature	Description
Processors NOTE: One of the following depending on model.	**Six-Core processors** • Intel Xeon processor X5670 (2.93 GHz,12MB L3 Cache, 95 W, DDR3-1333, HT Turbo 2/2/2/2/3/3) • Intel Xeon processor X5660 (2.80 GHz, 12MB L3 Cache, 95 W, DDR3-1333, HT Turbo 2/2/2/2/3/3) • Intel Xeon processor X5650 (2.66 GHz, 12MB L3 Cache, 95 W, DDR3-1333, HT Turbo 2/2/2/2/3/3) **Quad-Core processors** • Intel Xeon processor X5570 (2.93 GHz, 8MB L3 Cache, 95 W, DDR3-1333, HT Turbo 2/2/3/3) • Intel Xeon processor X5560 (2.80 GHz, 8MB L3 Cache, 95 W, DDR3-1333, HT Turbo 2/2/3/3) • Intel Xeon processor X5550 (2.66 GHz, 8MB L3 Cache, 95 W, DDR3-1333, HT Turbo 2/2/3/3) • Intel Xeon processor E5540 (2.53 GHz, 8MB L3 Cache, 80 W, DDR3-1066, HT Turbo 1/1/2/2)

<table>
<tr><th>Feature</th><th>Description</th></tr>
<tr><td></td><td>

Intel Xeon processor L5530 (2.40 GHz, 8MB L3 Cache, 60 W, DDR3-1066, HT Turbo 1/1/2/2)
Intel Xeon processor E5530 (2.40 GHz, 8MB L3 Cache, 80 W, DDR3-1066, HT Turbo 1/1/2/2)
Intel Xeon processor L5520 (2.26 GHz, 8MB L3 Cache, 60 W, DDR3-1066, HT Turbo 1/1/2/2)
Intel Xeon processor E5520 (2.26 GHz, 8MB L3 Cache, 80 W, DDR3-1066, HT Turbo 1/1/2/2)
Intel Xeon processor L5506 (2.13 GHz, 4MB L3 Cache, 60 W, DDR3-800)
Intel Xeon processor E5506 (2.13 GHz, 4MB L3 Cache, 80 W, DDR3-800)
Intel Xeon processor E5504 (2.00 GHz, 4MB L3 Cache, 80 W, DDR3-800)

Dual-Core processors

Intel Xeon processor E5502 (1.86 GHz, 4MB L3 Cache, 80 W, DDR3-800)

NOTE:

Up to 2 processors supported. Performance model configurations include two processors.
HT Indicates that the processor model supports Intel /Hyper-Threading technology
Turbo indicates the maximum potential frequency increment when using Intel turbo boost technology, with 4, 3, 2 and 1 cores active.
DDR3 Speed is the maximum memory speed of the processor. Actual memory speed may depend on the quantity and type of Dual In-line Memory Modules (DIMMs) installed.
For the Intel 5500 Series, the letter preceding the model number indicated the performance/wattage of the processor. X denotes high performance/wattage; E denotes Enterprise performance/wattage (Mainstream); and L denotes lower wattage.

</td></tr>
<tr><td>Cache memory
NOTE: One of the following depending on model.</td><td>12MB (1 x 12MB) Level 3 Cache on the 5600 Series 6-Core models
8MB (1 x 8MB) Level 3 cache on 5500 series
NOTE: All processor models except for those identified below.
4MB (1 x 4MB) Level 3 cache
NOTE: For processors E5506/L5506/E5504/E5502.</td></tr>
<tr><td>Chipset</td><td>Intel 5520 Chipset
Click here for more information regarding Intel chipsets .</td></tr>
<tr><td>Memory protection</td><td>Advanced ECC (Multi-bit error protection)
Mirroring mode
Lock-step mode</td></tr>
<tr><td>Memory</td><td>
<table>
<tr><td>Type</td><td>DDR3 Registered (RDIMM) or Unbuffered (UDIMM)</td></tr>
<tr><td>Standard (Performance models)</td><td>12GB (6 x 2GB) RDIMM</td></tr>
</table>
</td></tr>
</table>

<table>
<tr><th>Feature</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><td>Standard (Base models)</td><td>6GB (3 x 2GB) RDIMM</td></tr>
<tr><td>Standard (Entry model)</td><td>4GB (2 x 2GB) RDIMM</td></tr>
<tr><td>Standard (High efficiency model)</td><td>4GB (2 x 2GB) UDIMM</td></tr>
<tr><td>Maximum (RDIMM)</td><td>192GB (12 x 16GB) for registered memory configurations</td></tr>
<tr><td>Maximum (UDIMM)</td><td>48GB (12 x 4GB) for unbuffered memory configurations</td></tr>
</table>
NOTE: Depending on the memory configuration and processor model, the memory speed may run at 1333 MHz, 1066 MHz, or 800 MHz.
</td></tr>
<tr><td>Network controller</td><td>One HPE NC382i Dual-Port multifunction Gb Server adapter (Two ports total) with TCP/IP Offload engine, including support for Accelerated iSCSI</td></tr>
<tr><td>Expansion slots</td><td>
<table>
<tr><th>Expansion Slots #</th><th>Technology</th><th>Bus Width**</th><th>Connector Width</th><th>Bus Number*</th><th>Form Factor</th></tr>
<tr><td>1</td><td>PCI-e</td><td>x8</td><td>x8</td><td>4</td><td>Low profile slot</td></tr>
<tr><td>2</td><td>PCI-e</td><td>x16</td><td>x16</td><td>7</td><td>Full length, full height slot</td></tr>
<tr><td>2</td><td>PCI-X(133 MHz, 3.3 Voltage)</td><td>64-bit</td><td>x8</td><td>7</td><td></td></tr>
</table>
NOTE: * 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.
</td></tr>
<tr><td>Storage controller
NOTE: One of the following depending on model.</td><td>
<table>
<tr><td>Entry models</td><td>HP Smart Array P410i/Zero Memory Controller (RAID 0/1/1+0)</td></tr>
<tr><td>Base models</td><td>HP Smart Array P410i/256 MB Controller (RAID 0/1/1+0/5/5+0)</td></tr>
<tr><td>Performance models</td><td>HP Smart Array P410i/512 MB BBWC Controller (RAID 0/1/1+0/5/5+0)</td></tr>
<tr><td>High efficiency models</td><td>HP Smart Array P410i/Zero Memory Controller (RAID 0/1/1+0)</td></tr>
<tr><td colspan="2">Available upgrades: 256MB, 512MB with BBWC, battery kit upgrade (For BBWC), and Smart Array Advanced Pack (SAAP)</td></tr>
</table>
</td></tr>
<tr><td>Storage</td><td>
<table>
<tr><td>Diskette drive</td><td>None standard</td></tr>
<tr><td>Optical drive</td><td>None standard</td></tr>
<tr><td>One of the following depending on model</td><td>Optional DVD-ROM, DVD-RW or Slimline floppy drive</td></tr>
<tr><td>Hard drives</td><td>None standard</td></tr>
<tr><td>Drive bays</td><td>Up to 8 Small Form Factor (SFF) drive bays total</td></tr>
</table>
NOTE: 4 bays standard in entry/base and High Efficiency models, with optional upgrade of 4 additional bays with the SFF HDD Backplane kit (516966-B21).
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</table>

<table>
<tr><th>Feature</th><th>Description</th></tr>
<tr><td>Maximum internal storage type</td><td>
<table>
<tr><td>Hot-Plug SAS</td><td>2.4TB</td><td>8 x 300GB SAS</td></tr>
<tr><td>Hot-Plug SATA</td><td>2.0TB</td><td>8 x 250GB SATA</td></tr>
</table>
</td></tr>
<tr><td>Interfaces</td><td>
<table>
<tr><td>Keyboard</td><td>1</td></tr>
<tr><td>Mouse</td><td>1</td></tr>
<tr><td>Serial</td><td>1</td></tr>
<tr><td>Video</td><td>1</td></tr>
<tr><td>Network RJ-45</td><td>2</td></tr>
<tr><td>iLO 2 remote management port</td><td>1</td></tr>
<tr><td>SD slot</td><td>1</td></tr>
</table>
</td></tr>
<tr><td>Graphics</td><td>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 2 remote console is 1280 x 1024.</td></tr>
<tr><td>Form factor</td><td>1U Rack form factor (1.75 in), less than 70.5 cm (28 in) deep</td></tr>
<tr><td>Server power cords</td><td>High voltage power cord ships standard with all part numbers. Localized cables included with geographic specific models in other world regions.
NOTE: ProLiant DL servers no longer ship standard with NEMA power cords (187335-001) that allow connection to 110 V US wall outlets in a home or office. ProLiant DL servers are primarily connected to Power Distribution Units (PDU's) in data center racks so they now ship standard with only a PDU Power cord (416151-B21). If a user wishes to power a ProLiant DL Server using a 110 V receptacle (NEMA-15), the above NEMA power cord must be ordered separately.</td></tr>
<tr><td>UPS Power cord matrix</td><td>Click here to see the UPS and PDU cable matrix that lists cable descriptions, requirements, and specifications for UPS and PDU units .</td></tr>
<tr><td>Power supply</td><td>HPE has a new common slot power supply bay for ProLiant power. This design provides the end user with commonality in power supplies across multiple platforms to save on the cost of spares and allows HPE to offer multiple power solutions to fit the needs. HPE's new common slot power supplies are designed for highest efficiency to provide power efficiency without degrading performance of the ProLiant. Power supplies will have efficiency ratings up to 92%. There are three right size power options available, depending on the configuration of the server configuration. To make sure correct power supply, use the HPE Power Advisor to decide the Right-Size for the configuration.</td></tr>
<tr><td>Common slot power supply</td><td>HPE offers multiple power supply options:
460 W, common slot, 92% efficiency 80PLUS GOLD
750 W, common slot, 92% efficiency 80PLUS GOLD
1200 W, common slot, 90% efficiency 80PLUS SILVER</td></tr>
</table>

Feature	Description
	HPE's ProLiant common slot power supplies (460 W and 750 W) meet multiple energy efficiency initiatives. Climate savers computing initiative GOLD, 80PLUS GOLD and plans on offering models that meet the energy star for server requirements when they are published. HPE's ProLiant common slot power supplies (1200 W) meet multiple energy efficiency Initiatives. Climate savers computing initiative bronze, 80PLUS SILVER power supply requirements.
System fans	3 fans ship standard in 1 processor models 4 fans ship standard in 2 processor models N+1 fan redundancy standard NOTE: The processor option kit contains the additional 2 fans, when upgrading the 1 processor models. A Fan Option kit can also be purchased separately for use with PCI Graphics card upgrades.
Security Trusted Platform Module (TPM)	The TPM is a microcontroller chip that can securely store artifacts used to authenticate the server platform. Windows BitLocker Drive Encryption (BitLocker) is a data protection feature available in Windows Server 2008. BitLocker leverages the enhanced security capabilities of a 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.
Industry standard compliance	ACPI 2.0b Compliant PCI 2.2 Compliant WOL Support Microsoft Logo certifications PXE Support USB 1.1 and 2.0 Compliant SMBIOS 2.6.1
Security	Power-ON password Keyboard password Diskette drive control Diskette boot control QuickLock, network server mode Removable CD and diskette drive assembly Serial interface control Administrator's password iLO has 12 customizable user accounts and SSL Encryption iLO can be disabled via a global setting iLO Advance pack supports directory services integration and two-factor authentication
Rack kit	The HPE ProLiant DL360 quick deploy rail system provides tool-free support for racks with square or round mounting holes (Including Compaq/HPE 7000, 9000, 10000 and HPE series) with an adjustment range to fit a rack depth of 21.25 in to 37.75 in.
Telco rack support	HPE ProLiant DL360 Telco rack kit: Support for all 2-post Telco Racks requires the use of the standard rack kit and an additional option kit from rack solutions. Click here for more information .

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Software overview

Feature	Description
OS Support	• Microsoft Windows Server • Microsoft Windows Server Hyper-V • Red Hat Enterprise Linux (RHEL) • SUSE Linux Enterprise Server (SLES) • Oracle Enterprise Linux (OEL) • Solaris 10 for x86/x64 based Systems • NetWare • VMware • HPE Citrix Essentials for XenServer NOTE: Click here for more information on HPE's Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for the server .
HPEs Insight control environment suite	HPE Insight control suite installs and licenses the following components by default using a wizard-based integrated installer: • HPE Systems Insight Manager (SIM) • HPE iLO Advanced Pack • HPE Insight Power Manager software • HPE Performance Manager module • HPE Vulnerability and Patch Manager module • HPE Rapid Deployment Pack • HPE Virtual Machine Manager software for ProLiant NOTE: HPE Insight Server Migration software for ProLiant can be installed from the HPE Insight Server Migration software for ProLiant CD included in the Insight Software media kit. Click here for additional product and licensing information about HPE Insight Control suite . As of Feb. 1, 2009, HPE iLO Power Management Pack is being discontinued. End user can either purchase HPE Insight Control suite which contains all the components of IPMP or the standalone components which include iLO Advanced, insight power manager and SIM.

Feature	Description
ProLiant onboard administrator	HPE ProLiant onboard administrator functions without additional software, and can be accessed from any location via a web browser. It works hand-in-hand with HPE SIM, insight control, and insight dynamics - VSE suite helping end users unlock the value of the ProLiant platform and deliver the highest possible quality of IT service to the business.
Server management standalone software products	• HPE SIM • HP Insight Rapid Deployment software • HP Insight Server Migration software for ProLiant • HP Insight Dynamics - VSE suite for ProLiant • HP Integrated Lights-Out (iLO 2) Advanced Pack • HP Accelerated iSCSI Pack • HP Insight Power Manager software (IPM)
Core infrastructure management	• HPE Foundation pack The foundation pack includes: ◦ HPE SmartStart ◦ HPE Management ◦ HPE ProLiant Firmware Maintenance • Insight Management Providers (WBEM) • Insight Management Agents (SNMP) • Subscriber's Choice • ProLiant Support Packs and ROMPaq, software

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Product specifications

Click here to view the specifications page for the HP ProLiant DL360 G6 Server .

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Link to driver, firmware, software and manuals

Click here to access the driver, firmware, software and manuals for HP ProLiant DL360 G6 Server .

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Link to warranty information

Click here to check the warranty status .

Click here for detailed information regarding worldwide limited warranty and technical support .

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Link to QuickSpecs

Information for this Overview is taken from the product QuickSpecs. To access the complete QuickSpecs for this product, select the desired link from the following list:

Click here to view the HP ProLiant DL360 G6 Server Worldwide QuickSpecs in html format .

Click here to view the HP ProLiant DL360 G6 Server Worldwide QuickSpecs in pdf format .

Click here to access the QuickSpecs homepage, which provides access to the QuickSpecs for other regions/countries .

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