HP ProLiant ML350 G6 Server - Overview

Product description

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Product description



The HP ProLiant ML350 G6 is the best price performance DP Tower server that delivers excellence with performance, expandability and availability. It's a new generation server with more memory capacity and more HDD expandability. It combines the latest Intel Xeon 5500 processors with QPI technology, best-in-class availability features, and unsurpassed flexibility in a system ideal for growing businesses and especially well suited to meet the needs of remote branch offices.

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Product features

Feature	Description
Processor[1] (One of the following depending on model.)	**Six-Core Processors** • Intel Xeon Processor X5675 (3.06 GHz, 12MB L3 Cache, 95 W,DDR3-1333, HT, Turbo 1/1/2/2/3/3) • Intel Xeon Processor X5670 (2.93 GHz, 12MB L3 Cache, 95 W,DDR3-1333, HT, Turbo 1/1/2/2/3/3) • Intel Xeon Processor X5660 (2.80 GHz, 12MB L3 Cache, 95 W,DDR3-1333, HT, Turbo 1/1/2/2/3/3) • Intel Xeon Processor X5650 (2.66 GHz, 12MB L3 Cache, 95 W,DDR3-1333, HT, Turbo 1/1/2/2/3/3) • Intel Xeon Processor E5649 (2.53 GHz, 12MB L3 Cache, 80 W,DDR3-1333, HT, Turbo 1/1/2/2/3/3) • Intel Xeon Processor E5645 (2.40 GHz, 12MB L3 Cache, 80 W,DDR3-1333, HT, Turbo 1/1/2/2/3/3) **Quad-Core Processors** • Intel Xeon Processor X5672 (3.20 GHz, 12MB L3 Cache, 95 W,DDR3-1333, HT, Turbo 1/1/2/2/3/3) • Intel Xeon Processor E5640 (2.66 GHz, 12MB L3 Cache, 80 W, DDR3-1066, HT, Turbo (1/1/2/2)

Feature	Description
	• Intel Xeon Processor E5630 (2.53 GHz, 12MB L3 Cache, 80 W, DDR3-1066, HT, Turbo • Intel Xeon Processor E5620 (2.40 GHz, 12MB L3 Cache, 80 W, DDR3-1066, HT, Turbo • Intel Xeon Processor E5607 (2.26 GHz, 12MB L3 Cache, 80 W,DDR3-1333, HT, Turbo 1/1/2/2/3/3) • Intel Xeon Processor E5606 (2.13 GHz/4-core/8MB/80 W,DDR3-1066, Turbo 1/1/2/2/3/3) • Intel Xeon Processor E5603 (1.60 GHz, 12MB L3 Cache, 80 W,DDR3-1333, HT, Turbo 1/1/2/2/3/3) • 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) • Intel Xeon processor E5530 (2.40 GHz, 8MB L3 cache, 80 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 E5507 (2.26 GHz, 4MB L3 Cache, 80 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) • Intel Xeon Processor L5630 (2.13 GHz, 12MB L3 Cache, 40 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) • Quad-Core Intel Xeon Processor L5506 (2.13 GHz, 4MB cache, QPI 4.8 GT/s) **Dual-Core Processors** • Intel Xeon Processor E5503 (2.00 GHz, 4MB L3 Cache, 80 W, DDR3-800) • Intel Xeon processor E5502 (1.86 GHz, 4MB L3 cache, 80 W, DDR3-800)
Cache memory (One of the following depending on model.)	• 12MB (1 x 12MB) Level 3 cache NOTE: For 5600 series processors • 8MB (1 x 8MB) Level 3 cache NOTE: For X5570/X5560/X5550/E5540/E5530/E5520/L5520 processors

<table>
<tr><th>Feature</th><th>Description</th></tr>
<tr><td></td><td>• 4MB (1 x 4MB) Level 3 cache

NOTE: For E5507/E5506/E5504/E5503/E5502/L5506 processors</td></tr>
<tr><td>Chipset</td><td>Intel 5520 Chipset
Click here for more information regarding Intel chipsets .</td></tr>
<tr><td>Upgradeability</td><td>Upgradeable to 2 processors (4 or 8 cores)</td></tr>
<tr><td>Memory protection</td><td>Advanced ECC
Mirroring mode
Lock-step mode</td></tr>
<tr><td>Memory[2] (One of the following depending on model.)</td><td>
<table>
<tr><td>Type</td><td>DDR3 Registered (RDIMM) and Unbuffered (UDIMM)</td></tr>
<tr><td>Standard (Performance Models)</td><td>12GB (6 x 2GB) PC3-10600R (DDR3-1333) Registered DIMMs</td></tr>
<tr><td>Standard (Base Models)</td><td>6GB (3 x 2GB) PC3-10600R (DDR3-1333) Registered DIMMs</td></tr>
<tr><td>Standard (Entry Models)</td><td>4GB (2 x 2GB) PC3-10600R (DDR3-1333) Registered DIMMs</td></tr>
<tr><td>Maximum (RDIMM)</td><td>192GB (12 x 16GB)</td></tr>
<tr><td>Maximum (RDIMM)</td><td>144GB (18 x 8GB) for Registered Memory configurations</td></tr>
<tr><td>Maximum (UDIMM)</td><td>24GB (12 x 2GB) for Unbuffered Memory configurations</td></tr>
</table>
</td></tr>
<tr><td>Network controller</td><td>Embedded NC326i PCI Express Dual Port Gigabit Server adapter</td></tr>
<tr><td>Expansion slots[3]</td><td>
<table>
<tr><th>Expansion Slots #</th><th>Technology</th><th>BusWidth [2]</th><th>Connector Width</th><th>Bus Number[1]</th><th>Form Factor</th></tr>
<tr><td>6</td><td>PCI Express Gen2</td><td>x4</td><td>x8</td><td>5</td><td>Standard Height/Length</td></tr>
<tr><td>5</td><td>PCI Express Gen2</td><td>x4</td><td>x8</td><td>8</td><td>Standard Height/Length</td></tr>
<tr><td>4</td><td>PCI Express Gen2</td><td>x8</td><td>x16</td><td>11</td><td>Standard Height/Length</td></tr>
<tr><td>3</td><td>PCI Express Gen2</td><td>x8</td><td>x8</td><td>14</td><td>Standard Height/Length</td></tr>
<tr><td>2</td><td>PCI Express Gen2</td><td>x4</td><td>x8</td><td>17</td><td>Standard Height/Length</td></tr>
<tr><td>1</td><td>PCI Express Gen2</td><td>x4</td><td>x8</td><td>20</td><td>Standard Height/Length</td></tr>
</table>
</td></tr>
<tr><td>Storage controller</td><td>
<table>
<tr><td>Entry model</td><td>Embedded HP Smart Array P410i/Zero Memory Controller (RAID 0/1/1+0)</td></tr>
</table>
</td></tr>
</table>

Feature	Description		
(One of the following depending on model.)	Base models	Embedded HP Smart Array P410i/256MB Controller (RAID 0/1/1+0/5/5+0) Embedded HP Smart Array P410i/512 MB BBWC Controller (RAID 0/1/1+0/5/5+0)	
	Performance models	Embedded HP Smart Array P410i/1GB FBWC Controller	
	Available upgrades	256MB, 512MB with BBWC, Battery kit upgrade (for BBWC), and Smart Array Advanced Pack (SAAP) HP SC44Ge SAS Host Bus Adapter	
Storage	Diskette drives	None included standard (not supported)	
	Optical drive	HP Half-Height SATA DVD-ROM Optical Drive	
	Hard drives	None included standard	
Maximum internal storage (One of the following depending on model.)	Hot Plug LFF SATA	8TB	8 x 1TB
	Hot Plug LFF SAS	8TB	8 x 1TB
	Hot Plug SFF SATA	4.0TB	16 x 250GB
	Hot Plug SFF SAS	4.8TB	16 x 300GB
Interfaces	Serial	1	
	Pointing Device (Mouse)	1	
	Graphics	1	
	Keyboard	1	
	Network RJ-45	3 (1 dedicated for ProLiant Onboard Administrator)	
	USB 2.0 Ports	6 (2 front, 2 rear, 2 internal)	
Graphics[4]	Integrated ATI RN50, 64MB video standard • 16 bit color: maximum resolution of 1600 x 1200 • 32 bit color: maximum resolution of 1280 x 1024		
Form Factor	Tower or Rack (5U)		
System fans[5]	2 fans ship standard, 1 included in 2nd Processor kit and 1 fan for redundancy (optional)		
Power supply	HP has a new Common Slot Power Supply bay for ProLiant power. This design provides commonality in power supplies across multiple platforms to save on the cost of spares and allows HP to offer multiple power solutions to fit the customers' needs. HP'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 r server. To make		

Feature	Description
	sure to select the correct power supply to meet the configuration, we suggest that to use the HP Power Advisor to decide the "Right-Size" for the configuration.
Security - Trusted Platform Module	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.
Security	• Power-on password • Setup password • Serial interface control • Disk configuration lock • Power switch security
System management	• HP Systems Insight Manager • SmartStart • Redundant ROM System Firmware Update • ROMPaq • ProLiant RBSU (ROM-Based Setup Utility) • Automatic Server Recovery-2 (ASR-2) • Dynamic Sector Repairing (with Smart Array Controller) • Drive Parameter Tracking (with Smart Array Controller) • Pre-Failure Warranty (covers processors, memory, and SAS hard drives)
Industry standard compliance	• ACPI V2.0 Compliant • PCI-Express Gen2 • PXE Support • WOL Support • PCI-X 1.0a Compliant • Novell certified • Microsoft Logo certifications • USB 2.0

Feature	Description
	• SMBIOS 2.6.1

NOTE: **1:** 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 DIMMs installed.

For the Intel 5600 and 5500 Series, 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.

Customers transitioning from 5500 series processors to 5600 series processors must include a third fan along with the two fans present on the server.

2: Depending on the memory configuration and processor model, the memory speed may run at 1333 MHz, 1066 MHz, or 800 MHz. Click here for additional information on HPE Memory. .

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

4: Maximum resolution available via ProLiant Onboard Administrator remote console is 1280 x 1024.

5: Does not include power supply or processor heat sink fans. Processor heat sink fans packed in processor kit.

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Software features

Feature	Description
OS support	• Microsoft Windows Server • Microsoft Windows Server Hyper-V • Red Hat Enterprise Linux (RHEL) • SUSE Linux Enterprise Server • NetWare • VMware • HP Citrix Essentials for XenServer Click here for more information on HP's Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for the server .
HP insight control suite	HP Insight Control suite installs and licenses the following components by default using a wizard-based integrated installer: • HP Systems Insight Manager

Feature	Description
	• HP iLO Advanced Pack • HP Insight Rapid Deployment software • HP Insight Power Manager software • HP Insight Performance Manager module • HP Vulnerability and Patch Manager module • HP Virtual Machine Manager software for ProLiant Additional Insight Software standalone products and management tools included on the Insight Software media kit can be installed manually: • HP Insight Server Migration software for ProLiant NOTE: HP Insight Server Migration software for ProLiant is licensed separately from the Insight Control Environment Suite. • HP Open Service Event Manager • HP Service Essentials Remote Support Pack
HP ProLiant onboard administrator	HP ProLiant Onboard Administrator 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, and Insight Dynamics - VSE suite helping customers unlock the value of the ProLiant platform and deliver the highest possible quality of IT service to the business.
Server management stand alone software product	• HP Systems Insight Manager • 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
Core infrastructure management	• HP Foundation Pack The foundation pack includes: ◦ HP SmartStart ◦ HP Management ◦ HP ProLiant Firmware Maintenance • Insight Management Agents (SNMP) • Subscriber's Choice • ProLiant Support Packs and ROMPaq, software

Feature	Description

HP serviceguard for Linux (SGLX)	HP Serviceguard for Linux features and support:
	• Supported Virtual Machines
	  ◦ SG/LX in HP Integrity Virtual Machines guests
	  ◦ SG/LX in VMware ESX guests
	  ◦ SG/LX in Red Hat and SUSE Xen hosts (DOM0)
	• Application Integration Toolkits
	  ◦ HP Serviceguard for Linux Oracle Database Toolkit
	  ◦ HP Serviceguard Extension for SAP on Linux (SGeSAP/LX)
	  ◦ Free Application Integration Toolkits:
	  ▪ Apache
	  ▪ MySQL
	  ▪ NFS
	  ▪ PostgreSQL
	  ▪ Samba
	  ▪ Tomcat
	  ▪ Sendmail
	• Disaster Tolerant Solutions
	• Software updates are distributed by HP Services to customers with support contracts

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Link to product specification

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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 access the HP ProLiant ML350 G6 Server Worldwide QuickSpecs in html format .

Click here to access the HP ProLiant ML350 G6 Server Worldwide QuickSpecs in .pdf format .

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Link to product related documents

Click here to view the list of product related documents .

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