



Hewlett Packard HPE Support Center Enterprise

HP ProLiant DL170h G6 Server - Overview

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Product description



The HP ProLiant DL170h G6 Server extends HP ProLiant G6 innovation as part of the HP ProLiant DL1000 Multi Node Series. The DL1000 consists of up to four independent DL170h G6 servers in the 2U HP ProLiant h1000 G6 Chassis. The servers share power supplies and fans, providing greater power and cooling efficiencies.

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What's new

- New high efficiency power supplies
- New low voltage UDIMM

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Product features

Feature	Specification
Processor ¹ (One of the following depending on Model)	<p>Six-Core Processors</p> <ul style="list-style-type: none"> • Intel Xeon Processor X5670 (2.93 GHz, 12MB L3 Cache, 95 W, DDR3-1333, HT, Turbo 2/2/2/3/3) <p>Quad-Core Processor</p> <ul style="list-style-type: none"> • Intel Xeon Processor E5640 (2.66 GHz, 12MB L3 Cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2) • Intel Xeon Processor L5630 (2.13 GHz, 12MB L3 Cache, 40W, DDR3-1066, HT, Turbo 1/1/2/2) • Intel Xeon Processor X5570 (2.93 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo 2/2/3/3) • Intel Xeon Processor X5560 (2.80 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo 2/2/3/3) • Intel Xeon Processor X5550 (2.66 GHz, 8MB L3 Cache, 95W, DDR3-1333, HT, Turbo, 2/2/3/3) • Intel Xeon Processor E5540 (2.53 GHz, 8MB L3 Cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2) • Intel Xeon Processor E5530 (2.40 GHz, 8MB L3 Cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2) • Intel Xeon Processor E5520 (2.26 GHz, 8MB L3 Cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2) • Intel Xeon Processor L5530 (2.40 GHz, 8MB L3 Cache, 60W, DDR3-1066, HT, Turbo 1/1/2/2) • Intel Xeon Processor L5520 (2.26 GHz, 8MB L3 Cache, 60W, DDR3-1066, HT, Turbo 1/1/2/2) • Intel Xeon Processor L5506 (2.13 GHz, 4MB L3 Cache, 60W, DDR3-800) • Intel Xeon Processor E5506 (2.13 GHz, 4MB L3 Cache, 80W, DDR3-800) • Intel Xeon Processor E5504 (2.00 GHz, 4MB L3 Cache, 80W, DDR3-800)
Cache Memory (One of the following depending on Model)	<ul style="list-style-type: none"> • 12MB (1 x 12MB) Level 3 cache² • 8MB (1 x 8MB) Level 2 cache³ • 4MB (1 x 4MB) Level 2 cache⁴
Chipset	Intel 5520 Chipset
Upgradeability	Upgradeable to two processors (12 cores)
Memory protection	Advanced ECC capabilities
Memory ⁵	<ul style="list-style-type: none"> • Type: DDR3 Registered (RDIMM) or Unbuffered (UDIMM) • Standard (per server node): 6GB (3 x 2GB) PC3-10600E (DDR3-1333) Unbuffered DIMMs • Maximum (RDIMM) (per server node): 192GB (12 x 16GB) PC3-8500R (DDR3-800) • Maximum (UDIMM) (per server node) : 48GB (12 x 4GB) PC3-10600E (DDR3-1333)

Feature	Specification				
Network controller	HP NC362i Integrated Dual Port Gigabit Server Adapter with support for iSCSI				
Storage controller (One of the following depending on Model)	<ul style="list-style-type: none"> Embedded HP Smart Array Hot Plug Advanced Pack for B110i (RAID 0, 1, 10) Embedded HP Smart Array Hot Plug Advanced Pack for B110i (RAID 0, 1, 10) HP Smart Array Controller RAID 0,1,10, 5 				
Storage	<ul style="list-style-type: none"> Optical Drives: DVD / CD drives via USB only Diskette Drives: Via USB only Drive Bays (One of the following depending on Model): Up to 8 Hot plug SAS/SATA 3.5 inches drives Up to 16 Hot plug SAS/SATA 2.5 inches drives 				
Maximum Internal Storage	LFF 3.5" Hot Plug SATA 16.0TB 8 x 2TB				
	LFF 3.5" Hot Plug SAS 16.0TB 8 x 2TB				
	SFF 2.5" Hot Plug SATA 8.0TB 16 x 500GB				
	SFF 2.5" Hot Plug SAS 4.8TB 16 x 300GB				
Interfaces	<ul style="list-style-type: none"> Network RJ-45: 2 10/100/1000 NIC ports (1 NIC shared for the HP ProLiant Lights Out 100i Remote Management) Serial: 1 Graphics: 1 USB: 3 (two front, one internal) Management: 1 Optional Dedicated LO100i Management Port Health LED: 1 rear per server node (Optional front health LED per server node) Power: 1 rear per server node (Optional front power button per server node) UID: 1 rear per server node (Optional front UID per chassis) 				
Graphics	Integrated Matrox Graphics G200e, 32MB Standard <ul style="list-style-type: none"> 16 bit color: maximum resolution of 1600 x 1200 32 bit color: maximum resolution of 1280 x 1024 				
Form factor	<ul style="list-style-type: none"> HP ProLiant h1000 G6 Chassis - 2U Chassis can support up to four DL170h server nodes in the 2U chassis. HP ProLiant DL170h G6 Server - Half-width system board. Half-height (1U) or full-height (2U) depending on riser option selected. 4 Node Configuration - Front View <div style="text-align: center; border: 1px solid black; width: fit-content; margin: 10px auto;"> <table border="1" style="border-collapse: collapse;"> <tr> <td style="padding: 10px;">Node 3</td> <td style="padding: 10px;">Node 1</td> </tr> <tr> <td style="padding: 10px;">Node 4</td> <td style="padding: 10px;">Node 2</td> </tr> </table> </div> <p>NOTE: For 2 node configurations, Nodes 2 and 4 are ordered. For 3 node configurations, Nodes 1, 2 and 4 are ordered.</p>	Node 3	Node 1	Node 4	Node 2
Node 3	Node 1				
Node 4	Node 2				
Industry standard compliance	<ul style="list-style-type: none"> ACPI V2.0 Compliant PCIe 2.2 Compliant PXE Support WOL Support Microsoft Logo certifications IPMI 2.0 DCMI 1.0 SMASH CLP compliant 				
Security	<ul style="list-style-type: none"> Power-on password Setup password Diskette boot control Secure Sockets Layer (SSL) Secure Shell (SSH) 				
System fans	4 x 80 mm system fans ship standard; Non-hot plug, Non-redundant.				

Feature	Specification
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NOTE:

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 - 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 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.
 - Up to 2 processors supported. Mixing different processor models is not supported.
2. All 5600 processor models.
3. All 5500 series processor models except for those identified below.
4. For processors L5506, E5506 and E5504
5. Depending on the memory configuration and processor model, the memory speed may run at 1333 MHz, 1066 MHz, or 800 MHz. See the Online Memory Configuration Tool. [Click here to access the online HPE Memory Configurator Tool](#) .

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Feature	Specification
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OS support	<ul style="list-style-type: none"> • Microsoft Windows Server • Red Hat Enterprise Linux (RHEL) • SUSE Linux Enterprise Server (SLES) • Solaris • VMware ESX • Citrix XenServer
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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 end user's server](#) .

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[Click here to view HP ProLiant DL170h G6 Server specifications page](#) .

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