HPE ProLiant DL380 G7 Server - Overview

Product description

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Product description

	**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 fora variety of applications.**

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What's new

Support for new HP hard drives, UPS

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Product features

Feature	Description
Processor[1] NOTE: One of the following depending on Model	**Six-Core Processors** • Intel Xeon Processor X5690 (3.46 GHz, 12MB L3 Cache, 130 W, DDR3-1333, HT, Turbo1/1/1/1/2/2) • Intel Xeon Processor X5680 (3.33 GHz, 12MB L3 Cache, 130 W, DDR3-1333, HT, Turbo1/1/1/1/2/2) • Intel Xeon Processor X5675 (3.06 GHz, 12MB L3 Cache, 95 W, DDR3-1333, HT, Turbo2/2/2/2/3/3) • Intel Xeon Processor X5670 (2.93 GHz, 12MB L3 Cache, 95 W, DDR3-1333, HT, Turbo2/2/2/2/3/3) • Intel Xeon Processor X5660 (2.80 GHz, 12MB L3 Cache, 95 W, DDR3-1333, HT, Turbo2/2/2/2/3/3) • Intel Xeon Processor X5650 (2.66 GHz, 12MB L3 Cache, 95 W, DDR3-1333, HT, Turbo2/2/2/2/3/3)

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

Intel Xeon Processor E5649 (2.53 GHz, 12MB L3 Cache, 80 W, DDR3-1333, HT, Turbo1/1/1/1/2/2)
Intel Xeon Processor E5645 (2.40 GHz, 12MB L3 Cache, 80 W, DDR3-1333, HT, Turbo1/1/1/1/2/3)
Intel Xeon Processor L5640 (2.26 GHz, 12MB L3 Cache, 60 W, DDR3-1333, HT, Turbo2/2/3/3/4/4)

Quad-Core Processors

Intel Xeon Processor X5687 (3.60 GHz, 12MB L3 Cache, 130 W, DDR3-1333, HT, Turbo 1/1/2/2)
Intel Xeon Processor X5672 (3.20 GHz, 12MB L3 Cache, 130 W, DDR3-1333, HT, Turbo 1/1/2/2)
Intel Xeon E5640 (2.66 GHz/4-core/12MB/80 W, DDR3-1066, HT, Turbo 1/1/2/2) Processor
Intel Xeon E5630 (2.53 GHz/4-core/12MB/80 W, DDR3-1066, HT, Turbo 1/1/2/2) Processor
Intel Xeon E5620 (2.40 GHz/4-core/12MB/80 W, DDR3-1066, HT, Turbo 1/1/2/2) Processor
Intel Xeon E5606 (2.13 GHz/4-core/8MB/80 W, DDR3-1066) Processor
Intel Xeon E5506 (2.13 GHz/4-core/4MB/80 W, DDR3-800) Processor
Intel Xeon E5603 (1.60 GHz/4-core/4MB/80 W, DDR3-1066) Processor
Intel Xeon L5630 (2.13 GHz/4-core/12MB/40 W, DDR3-1066, HT, Turbo 1/1/2/2) Processor

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<tr><td>Cache memory(One of the following depending on Model)</td><td>

Up to 12MB (1 x 12MB) Level 3 cache for all 5600 series processors
Up to 8MB (1 x 8MB) Level 3 cache for all 5500 series processors

</td></tr>
<tr><td>Chipset</td><td>Intel 5520 Chipset</td></tr>
<tr><td>Upgradeability</td><td>Upgradeable to 2 processors (12 cores)</td></tr>
<tr><td>Memory protection</td><td>

Advanced ECC (multi-bit error protection)
Mirroring mode
Online Spare supported on 5600 Series
Lockstep mode

</td></tr>
<tr><td>Memory[2]</td><td>
<table>
<tr><td>Type</td><td>DDR3 Registered (RDIMM) and Unbuffered (UDIMM)</td></tr>
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Feature	Description	
	Standard (Performance Models)	12GB (6 x 2GB) PC3-10600R (DDR3-1333) Registered DIMMs
	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)	4GB (2 x 2GB) PC3-10600E (DDR3-1333) Unbuffered DIMMS
	Maximum (RDIMM)	384GB (12 x 32GB) for Registered Memory configurations[3]
	Maximum (UDIMM)	48GB (12 x 2GB) for Unbuffered Memory configurations[4]
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[5]

Riser	Expansion Slots #	Technology	Bus Width[6]	Connector Width	Bus Number[7]	Form Factor
Primary Riser(Standard)	1	PCIe Gen2	X8	X16	7	Full Length, Full Height Slot
	2	PCIe Gen2	X4	X8	10	Half Length, Full Height Slot
	3	PCIe Gen2	X4	X8	13	Half Length, Full Height Slot
PCIe Riser(Optional Secondary)	4	PCIe Gen2	X8	X16	16	Full Length, Full height slot
	5	PCIe Gen2	X4	X8	20	Half length, Half Height Slot
	6	PCIe Gen2	X4	X8	23	Half length, Half Height Slot
PCIe/PCI-X Riser(Optional Primary) NOTE: PCI-X support is limited to PCI-X cards only.	1	PCI-X(133 MHz)	64-bit	N/A	7	Full Length, Full Height
	2	PCI-E Gen2	X8	X16	11	Half Length, Full Height

<table>
<tr><th>Feature</th><th>Description</th></tr>
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<table>
<tr><th>Riser</th><th>Expansion Slots #</th><th>Technology</th><th>Bus Width[6]</th><th>Connector Width</th><th>Bus Number[7]</th><th>Form Factor</th></tr>
<tr><td></td><td>3</td><td>PCI-E Gen2</td><td>X4</td><td>X8</td><td>15</td><td>Half Length, Full Height</td></tr>
<tr><td rowspan="3">PCIe/PCI-X Riser(Optional Secondary)
NOTE: PCI-X support is limited to PCI-X cards only.</td><td>4</td><td>PCI-X(133 MHz)</td><td>64-bit</td><td>Not applicable</td><td>19</td><td>Full Length, Full height slot</td></tr>
<tr><td>5</td><td>PCI-E Gen2</td><td>X8</td><td>X16</td><td>23</td><td>Half Length, Half Height</td></tr>
<tr><td>6</td><td>PCI-E Gen2</td><td>X4</td><td>X8</td><td>27</td><td>Half Length, Half Height</td></tr>
<tr><td>x16 PCIe Riser(Optional Primary)</td><td>1</td><td>PCIe Gen2</td><td>x16</td><td>x16</td><td>13</td><td>Full Length, Full Height Slot</td></tr>
<tr><td>x16 PCIe Riser(Optional Secondary)</td><td>4</td><td>PCIe Gen2</td><td>x16</td><td>x16</td><td>16</td><td>Full Length, Full Height Slot</td></tr>
</table>
</td></tr>
<tr><td>Storage controller(One of the following depending on Model)</td><td>

Entry Models: HP Smart Array P410i/Zero Memory Controller (RAID 0/1/1+0)
Base Models: HP Smart Array P410i/256MB 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)

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<tr><td>Internal storage devices</td><td>
<table>
<tr><td>Diskette Drive</td><td>None Standard</td></tr>
<tr><td rowspan="2">Optical Drive (One of the following depending on Model)</td><td>None Standard on Entry, High Efficiency, and Base Models
NOTE: No support on LFF HD Models, or when upgrading to optional 8 SFFHD.</td></tr>
<tr><td>HP Slim SATA DVD RW Optical Drive Standard on Performance Models
NOTE: The Optical Drive option is not available when upgraded with the additional 8 SFF drive cage, or in the LFF Models</td></tr>
<tr><td>Hard Drives</td><td>None Standard</td></tr>
<tr><td>Hard Drive Bays</td><td>Standard (8) small form factor (SFF) hot-plug drive bays to support Serial Attached SCSI (SAS) and Serial ATA (SATA) drives</td></tr>
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<tr><th>Feature</th><th>Description</th></tr>
<tr><td></td><td>
<table>
<tr><td></td><td>Optional second drive cage for additional (8) SFF drive bays (total 16)
Optional cage for (6) Large Form Factor SAS/SATA hard drive bays</td></tr>
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</td></tr>
<tr><td>Maximum Internal Storage[11]</td><td>
<table>
<tr><td>Hot Plug SFF SAS</td><td>19.2TB</td><td>16 x 1.2TB (with optional SFF drive cage)</td></tr>
<tr><td>Hot Plug LFF SATA</td><td>24.0TB</td><td>6 x 4TB (with optional LFF drive cage)</td></tr>
<tr><td>Hot Plug SFF SAS SSD</td><td>12.8TB</td><td>16 x 800GB (with optional SFF drive cage)</td></tr>
<tr><td>Hot Plug SFF SATA SSD</td><td>6.4TB</td><td>16 x 400GB (with optional SFF drive cage)</td></tr>
<tr><td>Hot Plug LFF SATA SSD</td><td>6.4TB</td><td>16 x 400GB (with optional SFF drive cage)</td></tr>
</table>
</td></tr>
<tr><td>Interfaces</td><td>
<table>
<tr><td>Serial</td><td>1</td></tr>
<tr><td>Video</td><td>2 (1 front, 1 back)</td></tr>
<tr><td>Network RJ-45</td><td>4</td></tr>
<tr><td>iLO remote management port</td><td>1</td></tr>
<tr><td>Keyboard</td><td>1</td></tr>
<tr><td>Pointing Device (Mouse)</td><td>1</td></tr>
<tr><td>Graphics</td><td>1</td></tr>
<tr><td>SD slot</td><td>1</td></tr>
<tr><td>USB 2.0 Ports</td><td>5 total: 2 front, 2 back, 1 internal</td></tr>
</table>
</td></tr>
<tr><td>Industry standard compliance</td><td>

ACPI 2.0 Compliant
PCI 2.2 Compliant
WOL Support
Microsoft Logo certifications
USB 2.0 Support

</td></tr>
<tr><td>Server power cords[8]</td><td>High voltage power cord ships standard with all part numbers.</td></tr>
<tr><td>System fans[9]</td><td>Fully redundant hot plug fans ship standard (N+1).</td></tr>
<tr><td>Required cabling</td><td>Click here to access the article for cabling HPE ProLiant DL380 G7 Server .</td></tr>
<tr><td>Graphics[10]</td><td>Integrated ATI ES1000, 64MB video standard

16 bit color: maximum resolution of 1600 x 1200

</td></tr>
</table>

Feature	Description
	• 32 bit color: maximum resolution of 1280 x 1024
Form factor	Rack (2U)Height 8.59 cm (3.38 in); Width: 44.54 cm (17.25 in); Depth: 69.98 cm (27.25 in)
Security	• Power-on password • Keyboard password • QuickLock, Network Server Mode • Serial interface control • Administrator's password

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 6, 5, 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 5000, and 5600 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. Performance configurations include two processors. Mixing different processor models is not supported.

2: If only one processor is installed, only half the DIMM slots are available. When populating with the 16GB Memory Kits (Quad-Rank), only 12 DIMMs can be populated. For G6 and G7 servers using Xeon 5600 series processors, the default memory speed is1333 MHz 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 1333 MHz operation (which will result in 1067 MHz operation). UDIMM support is only on 12-slot servers. Depending on the memory configuration and processor model, the memory speed may run at1333 MHz, 1066 MHz, or 800 MHz.

3: Using PC3-8500R DDR3 Registered (RDIMM) memory, operating at800 MHz when fully populated at 2 DIMMs per Channel in 12 slots.

4: Using PC3-10600E DDR3 Unbuffered (UDIMM) memory, operating at 1066 MHz when fully populated at 2 DIMMs per Channel in 12 slots.

5: 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.

6: Indicates the number of physical electrical lanes running to the connector.

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

8: HP ProLiant DL servers no longer ship standard with a 12-foot NEMA 5-15P to C13 power cords(227099-001) that allow connection to 110 V 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-footC-14 to C13 power cord (142258-002). If a user wishes to power a ProLiant DL server using a 110 Vreceptacle (NEMA-15), the 12-foot NEMA 5-15 to C13 power cord (227099-001) must be ordered separately. Also available: 110 volt 6-Foot NEMA 5-15p to C13 (AF556A).

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

Feature	Description
10: 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). **11:** Gen8 hard drives are incompatible to Generation 7 and below servers.	

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Software overview

Feature	Description
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: 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 .	

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Link to QuickSpecs

- Click here to access the HPE ProLiant DL380 G7 Server Worldwide QuickSpecs in html format .
- Click here to access the HPE ProLiant DL380 G7 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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Related documents for the product

Click here to view the list of available documents for the DL380 G7 server .

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