HP ProLiant DL380 G6 Server - Overview

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Product description

	**The HP ProLiant DL380 G6 Server continues to deliver on its heritage of engineering excellence with increased flexibility and performance, enterprise-class uptime and manageability, 2-socket Intel Xeon performance, and 2U density for a variety of applications.**

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What's new

The DL380 G6 will now offer the Intel 5600 Series 6 Core capable processors:

- X5670 2.93 GHz 6C 95 W
- X5660 2.80 GHz 6C 95 W
- X5650 2.66 GHz 6C 95 W

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Product features

Feature	Description
Processor[1]	**Six-Core processors** • Intel Xeon processor X5670 (2.93 GHz, 12MB L3 Cache, 95 W, DDR3-1333, HT, Turbo 2/2/3/3) • Intel Xeon processor X5660 (2.80 GHz, 12MB L3 Cache, 95 W, DDR3-1333, HT, Turbo 2/2/3/3) • Intel Xeon processor X5650 (2.66 GHz, 12MB L3 Cache, 95 W, DDR3-1333, HT, Turbo 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)

Feature	Description
	• 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 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 E5520 (2.26 GHz, 8MB L3 Cache, 80 W, DDR3-1066, HT, Turbo 1/1/2/2) • 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 L5520 (2.26 GHz, 8MB L3 Cache, 60 W, DDR3-1066, HT, Turbo 1/1/2/2) • Intel Xeon processor L5506 (2.13 GHz, 4MB L3 Cache, 60 W, DDR3-800)
	Dual-Core processors • 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 on the 5600 sequence • 8MB (1 x 8MB) Level 3 cache on the 5500 sequence[2] • 4MB (1 x 4MB) Level 3 cache[3]
Chipset	Intel 5520 Chipset
Upgradeability	Upgradeable to 2 processors (12 cores)
Memory protection	• Advanced ECC (Multi-Bit error protection) • Mirroring mode • Lockstep mode
Memory[1]	**Type:** DDR3 Registered (RDIMM) and Unbuffered (UDIMM) **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 (High efficiency models):** 4GB (2 x 2GB) PC3-10600E (DDR3-1333) Unbuffered DIMMs

<table>
<tr><th>Feature</th><th>Description</th></tr>
<tr><td></td><td>Maximum (RDIMM): 192GB (12 x 16GB) for Registered Memory configurations
Maximum (UDIMM): 48GB (12 x 4GB) for Unbuffered Memory configurations</td></tr>
<tr><td>Network controller</td><td>Two HP NC382i dual port multifunction gigabit server adapters (Four ports total) with TCP/IP OffloadEngine, including support for Accelerated iSCSI</td></tr>
<tr><td>Storage controller (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>
</table>
Available upgrades: 256MB, 512MB with BBWC, 512MB with FBWC, 512MB, 1G with FBWC, Battery kit upgrade (For the 256MB cache), and Smart Array Advanced Pack (SAAP)
</td></tr>
<tr><td>Maximum internal storage</td><td>
<table>
<tr><td>Hot plug SFF SAS</td><td>9.6TB</td><td>16 x 600GB (With optional SFF drive cage)</td></tr>
<tr><td>Hot plug LFF SAS</td><td>12.0TB</td><td>16 x 600GB (With optional SFF drive cage)</td></tr>
</table>
</td></tr>
<tr><td>Graphics[4]</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</td></tr>
<tr><td>Form factor</td><td>Rack (2U)</td></tr>
<tr><td>System fans[5]</td><td>Fully redundant hot plug fans ship standard (N+1).</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>Security</td><td>Power-On password
Keyboard password
Diskette drive control
Diskette boot control
QuickLock, Network server mode</td></tr>
</table>

Feature	Description
	• Parallel and 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 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, 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. All 5500 sequence processor models have 8M L3 Cache except for those identified below.
3. For processors E5506/L5506/E5504/E5502.
4. Maximum resolution available via iLO 2 remote console is 1280 x 1024.
5. One processor models include four fans. Two processor models include six fans.

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Software overview

Feature	Description
Supported Operating Systems (OS)	• Microsoft Windows Server • Microsoft Windows Server Hyper-V • Red Hat Enterprise Linux (RHEL) • SUSE Linux Enterprise Server (SLES) • Solaris • NetWare • VMware • Citrix XenServer
HP Insight management software	• HP Insight Foundation • HP Integrated Lights-Out (iLO)

NOTE: Click here to access the Support Matrix for more information on HPE's Certified and Supported ProLiant Servers for OS and VirtualizationSoftware and latest listing of software drivers available for the server .

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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 DL380 G6 Server Worldwide QuickSpec in html format .
- Click here to access the HP ProLiant DL380 G6 Server Worldwide QuickSpec in pdf format .

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