HP ProLiant ML150 G6 Server

Data sheet

The HP ProLiant ML150 G6 Server now supports Intel® Xeon® 5500 series processors, delivering enhanced compute performance. It also brings huge improvements in memory capacity, storage, and deployment options, making it expandable and affordable for growing businesses.

With next-generation Intel processors and essential remote management features, the ML150 G6 tower server provides advanced server functionality and outstanding value at an entry-level price point. In addition, highly-efficient redundant power supply and redundant fans provide greater power and thermal protection to keep your business running.

There are also hot-pluggable hard disk drives (HDDs) and optional RAID controllers that can help limit network downtime. In addition, with data security being a major concern today, the Trusted Platform Module (TPM) option can prove useful through its support for data encryption.

Designed to meet your IT needs today, while providing new capabilities for the future, the HP ProLiant ML150 G6 is well suited for small-to-medium businesses as well as compute-intensive cluster environments that require dependable server performance.

Growing businesses can look to the HP ProLiant ML150 G6 Server for a server platform that delivers reliability and quality while providing headroom for expansion plans. Engineered to meet the needs of corporate small sites, it comes with improved performance, easy management, and scalability— enabling you to establish a worry-free IT environment.

Key features and benefits

Faster computing power
Built upon the latest industry-standard technology, the HP ProLiant ML150 G6 Server comes with the following features:

- Latest Intel Xeon 5500 processors with QuickPath Interconnect architecture provide ultimate processor performance

- Large cache size yields more transaction processing

- 12 DIMM slots supporting up to 48 GB of DDR3 1066 MHz Registered/Unbuffered memory—make the ML150 G6 ideal for demanding workloads

- Integrated PCI-E Generation 2 slots deliver greater bandwidth

- Up to 8 Large Form Factor (LFF) SAS/SATA disk drives—through optional second drive cage— provide storage expandability to meet future business growth needs

- Embedded HP Smart Array B110i SATA RAID Controller and a wide array of Smart Array controller options allow you to meet your storage requirements with ease

Easy management
Embedded Lights-Out 100i (LO100i) remote management allows you to monitor your server from any location, anytime, through a LAN or the Internet. This offers basic remote control through telnet, browser, and Intelligent Platform Management Interface (IPMI 2.0). These features enable access to system management information to dramatically reduce the need to physically visit or find onsite assistance for troubleshooting, deployment, and updating.

- Lights-Out remote management enables you to monitor server health and react responsively to events, should they occur

- Licenses are available to provide additional LO100i advanced remote management capabilities

Convertibility and Connectivity
The ML150 G6 comes with convertibility and connectivity options that facilitate easy deployment.

- The Tower to Rack Conversion Tray Universal Kit enables easy connection to the existing rack-mount server

Reliability
- Optional Trusted Platform Module helps address security requirements for businesses that require higher-level of identity, data, and network security **(http://h20000.www2.hp.com/bc/docs/support/ SupportManual/c01681891/c01681891.pdf)**

- Latest HP Smart Array Option cards offer seamless upgradeability from zero memory to 512 BBWC and high performance RAID protection

- Optional high efficiency 750W Redundant Power Supply and redundant fan offers more protection, enabling you to keep your business running

- Support for hot-pluggable SAS and SATA drives facilitates greater flexibility in storage management

- Advanced ECC (error correcting code) memory delivers unsurpassed memory protection and server availability

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Processor and Memory

Processor type	Intel Xeon processor E5500 series
Available processors	Quad-Core Processors Intel Xeon Processor E5540 (2.53 GHz, 8 MB L3 cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2) Intel Xeon Processor E5530 (2.40 GHz, 8 MB L3 cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2) Intel Xeon Processor E5520 (2.26 GHz, 8 MB L3 cache, 80W, DDR3-1066, HT, Turbo 1/1/2/2) Intel Xeon Processor E5506 (2.13 GHz, 4 MB L3 cache, 80W, DDR3-800) Intel Xeon Processor E5504 (2.00 GHz, 4 MB L3 cache, 80W, DDR3-800) Dual-Core Processors Intel Xeon Processor E5502 (1.86 GHz, 4 MB L3 cache, 80W, DDR3-800)
Processor core	Dual and Quad
Processor cache	Integrated 1 x 8 MB level 3 cache (E5540, E5530, E5520 sequence) Integrated 1 x 4 MB level 3 cache (E5506, E5504, E5502 sequence)
Max processor speed	2.53 GHz
Multi-processor	2
Max front side bus speed	1066 MHz
Memory type	12 DIMM sockets, DDR3 1066 MHz Unbuffered and Registered
Standard memory	2 GB
Max memory	48 GB
Memory slots	12 DIMM slots
Advanced memory protection	Advanced ECC
Storage type	Hot plug 3.5-inch SAS Hot plug 3.5-inch SATA Non-hot plug 3.5-inch SAS Non-hot plug 3.5-inch SATA
Max Number of hard drives	8 4 LFF SAS or SATA non-hot plug drive support Optional 2nd drive cage for additional 4 LFF SAS or SATA hot plug drive support
Removable media bays	(3) 5.25" media bays: Note: One populated by DVD drive; the other two are empty. You can also combine the two empty bay to support a full height tape device
Expansion slot	**5 Total: 1 x 32-bit/33 MHz PCI 3.3V Slots** 1 x 8 PCI-Express Slot (Gen 1 x4 link) 1 x 8 PCI-Express Slot (Gen 2 x4 link) 1 x16 PCI-Express Slot (Gen 2 x16 link) 1 x8 PCI-Express Slot (Gen 2 x4 link)
Storage controller	Performance model: HP Smart Array P410/256 MB RAID Controller (RAID 0/1/1+0/5/5+0) Base model: HP Smart Array P410 Controller (RAID 0, 1, std) Zero memory Entry model: HP Smart Array B110i SATA RAID Controller (RAID 0, 1, 10)

Deployment

Form factor	Tower
Rack height	5U
Networking	Embedded HP NC107i PCI Express Gigabit Server Adapter
Remote management	HP ProLiant Onboard Administrator (powered by the HP Integrated Lights-Out 100i Baseboard Management Controller) with optional LO100i Advanced Licenses for Virtual KVM and Virtual Media Easy Set-up CD and ISO image for Web download Enhanced HP ProLiant 100 series environmental monitoring that is similar and consistent to that of ProLiant 300 series servers and above. This server now offers the HP Insight Management Agents and HP Insight Management WBEM Providers to facilitate robust system health monitoring through HP Systems Insight Manager (SIM)
Redundant power supply	Optional
Redundant fans	Optional
Warranty	1-year parts/1-year labor/1-year onsite; 3-year/1-year/1-year (Asia Pacific except Japan)

Ideal environment

The HP ProLiant ML150 G6 Server is ideal for small and medium environments, corporate workgroups, and remote locations.

Small and medium organizations with 10-100 clients and limited IT resources

– Simple to service and upgrade

– Easy to deploy

– Highly expandable platform

– Trusted by value-conscious businesses

Enterprises with 1,000-10,000 employees spread across small offices

– Expandable to higher load/performance

– Well-suited for cost-conscious enterprises running "non-critical" hardware applications

Corporate workgroups or remote locations

– Entry-level server solution for budget-conscious corporations

Ideal applications

Packed with industry-standard technologies, the ML150 G6 provides the power needed to tackle demanding business applications such as:

• File and print

• Small or medium e-mail server

• Small vertical applications or databases

• Shared Internet access and LAN infrastructure

HP Financial Services

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HP Services

When Technology Works, Business Works.
The challenge of virtually every IT organization is similar: to develop and maintain an agile, efficient server infrastructure that delivers the service levels your business needs.

HP Technology Services offer a comprehensive portfolio of HP Care Pack Services to help design, deploy, manage, and support your IT environment, enabling cost-effective upgrades to standard warranty with easy-to-buy, easy-to-use support packages.

Minimum Recommended HP Care Pack offerings

• Three-year, next business day response onsite, 9-hour x 5-day coverage, hardware support

• Hardware Installation only

Enhanced service level Care Pack offerings

• Three-year same business day, 4-hour response onsite, 13-hour x 5-day coverage, hardware support

• Hardware Installation plus operating system installation and startup

Benefit from HP Care Pack Services helping you

• Reduce deployment time and manage ProLiant server solutions smoothly and efficiently

• Increase uptime and performance of server availability to your business

• Detect, diagnose, and repair problems to quickly save time, money, and resources

For more information, visit
www.hp.com/services/proliantservices or
www.hp.com/go/proliant/carepack

For more information

For more information about the HP ProLiant ML150 G6 Server, contact your local HP representative, or visit **www.hp.com/servers/ml150-g6**

Technology for better business outcomes

To learn more, visit www.hp.com/servers/ml150-g6