

HP ProLiant ML330 G6 Server





Performance and manageability to scale your business

If you are a small and medium business (SMB) entrepreneur, we at HP know that keeping your IT infrastructure in sync with rapidly changing demands and competition can be a tough job. Since your business is growing, you can not block much investment on your infrastructure, yet you would prefer it to scale up to match the need for greater computing and uptime. We also understand that for IT managers who run remote or duplicate data centers, lacking an efficient remote management tool can cause sleepless nights.

The HP ProLiant ML330 G6 is a new dual processor tower platform built on the latest Intel Xeon processors with QPI technology having a unique system architecture. This unique architecture enables

you to scale your business as needed and allows you to improve the efficiency of how you spend your IT dollars. Besides delivering excellent performance with the latest technology, it also incorporates the industry's most powerful embedded management technology with the ProLiant Onboard Administrator (powered by iLO 2 controller) allowing you to manage servers from any location round the clock.

With the latest Intel Series processors with QPI technology (Quad-Core and Dual-Core), choice of DDR3 registered or unbuffered DIMMs, Serial Attached SCSI (SAS) and PCI Express Gen2 technology, the ML330 G6 provides a high-performance system ideal for rapid expansion of your business as needed.

Embedded in ML330 is the powerful ProLiant Onboard Administrator (powered by iLO 2 controller) that allows you to manage your servers round the clock and from any location. This makes it the ultimate, affordable remote office server suited to your needs.

Key features and benefits

Improved Performance

An affordable tower server with a brand new design, the ProLiant ML330 delivers outstanding performance.

- Unique architecture: Up to two 2.53 GHz Intel Xeon E5500 series processors with Turbo Mode or only one 2.93 GHz Intel Xeon W3500 series processors with Turbo Mode allow optimizing both power consumption and performance based on your needs. While the first processor is on-board, the second processor is on the Mezzanine board as an option. You can cut costs at ordering and choose to add the second processor later on when needed.
- Increased memory: 18 DIMM slots support up to 144 GB of DDR3 Memory and 12 DIMM slots up to 24 GB for DDR3 unbuffered memory make the server ideal for memory-intensive applications. Besides, DDR3 achieves 20 percent lower power consumption than DDR2 while effecting a 10 percent performance gain.

- Intel QPI architecture: Intel QuickPath Interconnect (QPI) architecture integrates a memory controller into each microprocessor and provides high-speed connections between the microprocessors and other components like external memory and the I/O hub. It also allows a processor to access the dedicated memory of any other processor through the QPI which links all the processors.
- Energy efficient: Multiple smart sensors manage temperature across the ML330 G6, prevent overcooling, and reduce power usage. New features like HP Power Advisor, automated adjustment of I/O and memory slots and fan regulation also make it more energy efficient. ML330 G6 satisfies the Climate Saver Gold criteria.
- PCI-Express: Four (4) available PCI-Express Gen 2
 expansion slots (standard) with optional PCI-X slots
 provide the latest I/O performance technologies
 to meet different market requirements for various
 applications.
- Smart Array: Embedded HP Smart Array B110i with SAS HW RAID meet your unique storage needs. Optional Advanced RAID controller provides up to RAID 6/60 and Battery Write back Cache protection adding high availability to HDD performance and efficiency. The Battery Write Back Cache also helps in data protection.
- Data security: Customer and business information stored on corporate databases is a critical business asset, vulnerable to hackers and other similar catastrophic mishaps. HP ProLiant ML330 G6 offers an optional feature called Trusted Platform Module (TPM) that encrypts the hard drive and prevents unauthorized access from another operating system (OS). It also prevents offline viewing of the files that make up the OS itself.
- Dual-port network adaptors: Two (2) embedded Gigabit Network ports provide increased network throughput and redundancy.

Manageability

The HP ProLiant ML330 G6 is equipped with a set of powerful management tools like the HP Onboard Administrator (powered by iLO 2) and SmartStart deployment tool to enhance and control all aspects of your infrastructure. You may also purchase the HP Insight Control suite (ICE) with new Dynamic Power Capping technology to take charge of power and cooling efficiency throughout your data center.

- The new HP ProLiant Onboard Administrator (powered by the Integrated Lights-Out 2 management processor) simplifies server setup, health monitoring, power and thermal control, and lights-out remote administration of ProLiant ML, DL, and BL servers. ProLiant Onboard Administrator functions without additional software and functionality can be accessed locally to the server or remotely through a Web browser.
- Tools like SmartStart, Insight Rapid Deployment software, PXE, and ROM-Based Setup Utility (RBSU) simplify server configuration and deployment.

Ideal environments

HP ML330 G6 with its unique system architecture for easy scale-up is suited for SMBs and remote site applications.

Growing business (SMBs)

HP ML330 G6 offers excellent performance with affordable price and ease of use making it suited for SMB applications. With its highly flexible modular configurations, it provides upgradeability with room to grow for such businesses. Its modular chasis and whisper quiet fans make it ideal for small office environment.

Remote and replicate sites

HP Onboard Administrator (powered by embedded iLO 2 controller) provides ML330 with enhanced security features and dedicated remote management and control for communicating with the headquarters. Integrated dual Gigabit Ethernet equips it with increased network throughput and redundancy. Maximum memory slots provide it with flexible configuration for low cost memory expansion.

Applications

ML330 is suited for various applications like:

- Application/ Messaging Server
- Microsoft 2008 Small Business Server
- Microsoft Embedded Server
- Mailing/Printing Server
- Red Hat/Suse Enterprise Server

Processor and memory	
Processor type	Intel® Xeon® 5500 series
Available processors	Xeon E5500 (DP) family: Quad-Core 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 Intel® Xeon® Processor E5502 (1.86 GHz, 4 MB L3 Cache, 80W, DDR3-800) Xeon W3500 (UP) family: Quad-Core Intel® Xeon® Processor W3540 (2.93 GHz, 8 MB L3 Cache, 130W, DDR3-1066, HT, Turbo 1/1/1/2) Intel® Xeon® Processor W3520 (2.66 GHz, 8 MB L3 Cache, 130W, DDR3-1066, HT, Turbo 1/1/1/2) Dual-Core Intel® Xeon® Processor W3505 (2.53 GHz, 4 MB L3 Cache, 130W, DDR3-1066) Intel® Xeon® Processor W3503 (2.40 GHz, 4 MB L3 Cache, 130W, DDR3-1066)
Processor core	Dual and Quad
Cache memory	4M or 8M
Maximum processor speed	2.93 GHz
Multi-processor	2
Memory type	PC3-8500R/10600R DDR3 Registered memory PC3-10600E DDR3 Unbuffered memory
Standard memory	2G for Entry model, 4G for Base model
Maximum memory	144 GB DDR3 Registered DIMM, 24 GB DDR3 Unbuffered DIMM
Memory slots	 18 Slots 9 slots on system board 9 slots on mezzanine board in Processor Option Kit
Advanced memory protection	Advanced ECC Mirrored Memory
Storage type	Hot plug 3.5-inch SATA Hot plug 3.5-inch SAS Non-hot plug 3.5-inch SATA Non-hot plug 3.5-inch SAS
Number of hard drives	8 LFF 3.5"
Removable media bays	3 (1 for DVD-ROM)
Expansion slot	4 total: 3 PCI-E Gen 2, 1 PCI-E Gen 1, Optional 2 PCI-X
Storage controller	HP Smart Array B110i SATA RAID Controller (integrated) HP Smart Array P212/Zero Memory Controller HP Smart Array P410/256 MB Controller HP Smart Array P411/256 MB Controller
Deployment	
Form factor	5U Tower
Rack height	N.A
Networking	HP NC326i Dual ports Gigabit Server Adapter (integrated) HP NC112T PCle Gigabit Server Adapter HP NC360T PCle Dual Port Gigabit Server Adapter
Remote management	HP Onboard Administrator (embedded) HP Insight Control suite (ICE) HP System Insight Manager HP Foundation Pack
Redundant power supply	Optional
Redundant fans	Optional
Warranty—year(s) (parts/labor/onsite)	3/1/1

Enhance performance with additional HP solutions

You can gain even greater performance from your ProLiant ML330 G6 server by combining it with these HP solutions:

- HP Insight software: HP Insight software lets you build infrastructure management capabilities as you need them:
 - -The HP Insight Control suite allows you to deploy servers rapidly, monitor system health and performance, enhance power consumption and remotely control your entire server environment from any location.
 - At the advanced level, the HP Insight Dynamics VSE suite for ProLiant delivers comprehensive functions for optimizing and balancing resources and workloads in real-time.
- HP Financial Services: HP Financial Services can help reduce your costs as you make a transition from legacy equipment, acquire new hardware and software, manage your data center cost-effectively, and dispose of equipment safely at the end of its lifecycle. www.hp.com/go/hpfinancialservices
- **HP Factory Express:** HP Factory Express offers configuration, customization, integration, and deployment services for HP server and storage products. Customers can choose how their factory solutions are built, tested, integrated, shipped, and deployed. www.hp.com/go/factory-express

For more information

For more information about the HP ProLiant ML330 G6 Server contact your local HP representative, or visit: www.hp.com/servers/proliantml330-g6

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 servers 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

Technology for better business outcomes

To learn more, visit www.hp.com/servers/proliantml330-q6

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