HP ProLiant ML110 Generation 5 Server
Datasheet

The HP ProLiant ML110 G5 Server is an efficiently-sized server that is ideal for small offices, first networks and remote sites.

Can you meet your computing challenges?

Keeping a small business up and running requires a server that is affordable, reliable and easy to maintain. When you have limited IT resources, you cannot assume that you will have staff on-site to handle day-to-day server-related tasks. You need a server that is easy to manage, still from a distance.

How do you meet these needs? Look to the compact and powerful HP ProLiant ML110 Generation 5 (G5) Server. It delivers true server reliability and functionality for small businesses, branch offices and remote locations – for the price of a typical desktop computer.

The right size and the right features – at the right price

Versatile and easy to use, the ML110 G5 is designed to be practical and affordable. It delivers all the entry-level server features that small businesses typically need, along with today's latest technology innovations.

Some of the exciting features you will find in this new generation of the ML110 Server include Intel® Xeon® and Pentium® processors, four hard disk drive bays and an optional HP Lights-Out 100c Remote Management Card that is ideal for remote sites or second offices.

Key features and benefits

Proven HP dependability and support

- HP has built a reputation of dependability by conducting some of the most rigorous and thorough testing in the industry. This testing allows you to deploy the ML110 G5 with confidence

- The ML110 G5 incorporates ProLiant quality that starts with design and is optimised in manufacturing. Thanks to tireless work on system testing and process control, only the most dependable products reach your environment

Expandable to grow with changing business needs

- This powerful yet simple platform provides all the relevant server features in an easy-to-use and easy-to-afford package

- Practical features – such as Intel Xeon 3000 Series and Pentium processors, DDR II ECC memory, PCI Express, serial port and multiple USB 2.0 ports – deliver off-the-shelf functionality with the expandability to grow with your business

- The ML110 G5 is designed specifically for businesses that require an easy-to-configure, easy-to-use platform. All major components are designed to be removed or installed with little effort. When growth becomes necessary for a small business network, the ML110 G5 is easily reconfigurable

- Companies with remote locations or trusted advisors can take advantage of the optional HP Lights-Out 100c Remote Management Card to decrease server and company downtime and to increase productivity

A true server at a desktop price

- The ML110 G5 incorporates many features that are ideal for small and medium-size businesses and remote-site locations

- The design of the ML110 G5 provides a simplified server with the right features and the right price for a small business

- ProLiant 100 Series servers have tailored features to reflect the usage needs of small businesses and branch offices

Ideal environments

Ideal applications

- File and print
- Web messaging
- Small vertical applications or databases
- Shared Internet access and LAN infrastructure

Remote site or branch offices of small to medium-size businesses

- Entry-level, single processor server solution for budget-conscious businesses

HP Services

When Technology Works. Business Works

The challenge of virtually every IT organisation 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 range 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 options

- Three-year, next business day response on site 9-hour x 5-day coverage, hardware support

- Hardware Installation only

Enhanced service level Care Pack options

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

- Hardware Installation plus operating system installation and start-up

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
www.hp.com/go/proliant/carepack

- Optional, industry-standard remote manageability to manage remote locations

- A variety of service options for tailored support solutions

Small businesses running light applications

- The ML110 G5 delivers peace of mind through practical design and strenuous testing, helping to deliver dependable performance

- Growth and adaptability are achieved through memory, HDD and PCI card expandability, giving the ML110 G5 the headroom to grow with your business

- Small businesses can depend on HP to provide the products and support needed to handle their day-to-day server tasks in a smooth and efficient manner

HP ProLiant ML110 Generation 5 Server

Processor and memory

Number of processors	1
Maximum number of cores	4
Processors supported	Quad-Core Intel Xeon X3360, 2.83 GHz, 1333 MHz Quad-Core Intel Xeon X3350, 2.66 GHz, 1333 MHz Quad-Core Intel Xeon X3330, 2.66 GHz, 1333 MHz Quad-Core Intel Xeon X3320, 2.50 GHz, 1333 MHz Quad-Core Intel Xeon X3220, 2.40 GHz, 1066 MHz Quad-Core Intel Xeon X3210, 2.13 GHz, 1066 MHz Dual-Core Intel Xeon E3120, 3.16 GHz, 1333 MHz Dual-Core Intel Xeon E3110, 3.00 GHz, 1333 MHz Dual-Core Intel Xeon X3075, 2.66 GHz, 1333 MHz Dual-Core Intel Xeon X3065, 2.33 GHz, 1333 MHz Dual-Core Intel Core 2 E4600, 2.40 GHz, 800 MHz, Dual-Core Intel Pentium E2160, 1.80 GHz, 800 MHz Single-Core Intel Celeron 440, 2.00 GHz, 800 MHz Single-Core Intel Celeron 420, 1.60 GHz, 800 MHz
Processor cores	Single, dual and quad
Cache	12 MB Level 2 cache (Xeon 3300 Series) 8 MB Level 2 cache (Xeon 3200 Series) 6 MB Level 2 cache (Xeon 3300 Series) 6 MB Level 2 cache (Xeon 3100 Series) 4 MB Level 2 cache (Xeon 3000 Series) 2 MB Level 2 cache (Core2 Series) 1 MB Level 2 cache (Pentium 2100 Series) 512 KB Level 2 cache (Celeron Series)
Maximum processor speed	3.16 GHz
Multi-processor	N/A
Maximum front-side bus speed	1333 MHz
Memory type	PC2-6400 unbuffered DDR2 ECC 800 MHz
Standard memory	512 MB
Maximum memory	8 GB
Advanced memory protection	N/A

Storage

Storage type	Non-hot plug 3.5-inch SAS Non-hot plug 3.5-inch SATA
Drives supported	Up to 4: Non-hot plug LFF SAS 15K 450/300/146/72 GB Non-hot plug LFF SAS 10K 400 GB Non-hot plug LFF SATA 7.2K 750/500/250/160 GB
Maximum Internal Storage	1.8 TB SAS; 3.0 TB SATA
Maximum internal drives	4
Removable media bays	2
Expansion slots	4 total: 3 PCI Express (1x8 and 2x1) 1 3.3 V PCI
Storage controller	SATA Models: Integrated 6 ports SATA controller with embedded RAID (4 ports available for Hard Disks) SAS Models: HP SC40Ge Host Bus Adapter with RAID 0, 1 support, FIO

Operating system

OS choices	Microsoft Windows Server 2003 R2
	Microsoft Windows Small Business Server 2003
	Microsoft Windows Server 2008
	Microsoft Windows Small Business Server 2008
	Microsoft Windows Essential Business Server 2008
	Red Hat Enterprise Linux
	SUSE Linux Enterprise Server
	Netware

For additional information, please visit **www.hp.com/go/ossupport**

Deployment

Form factor	Tower with Rack Mount Option Kit
Rack height	4U
Networking	Embedded NC105i Express Gigabit Ethernet Server Adapter
Remote management	Standard IPMI 2.0 reporting Lights-Out 100c Remote Management Card (optional)
Warranty (parts/labour/on-site)	Standard: 1-year/1-year/1-year Asia Pacific (excluding Japan): 3-year/1-year/1-year

Financial services

HP Financial Services provides innovative financing and financial asset management programmes to help you cost-effectively acquire, manage and ultimately retire your HP solutions. For more information, contact your local HP representative or visit: **www.hp.com/go/hpfinancialservices**

For more information

For more information about the HP ProLiant ML110 G5 Server, contact your local HP representative or visit: **www.hp.com/servers/proliantml110**

Technology for better business outcomes

To learn more, visit www.hp.com/servers/proliantml110

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