HP ProLiant ML110 G2 Storage Server
Data sheet

The HP ProLiant ML110 G2 Storage Server offers an entry-level, 5U tower networked attached storage (NAS) solution for small and medium business environments. Optional HP ProLiant Storage Server iSCSI Feature Pack* software adds iSCSI target functionality and block-level storage services. This combination creates an iSCSI Storage Server solution that is capable of hosting file, print* and application storage services on a single platform.

With host-based data replication and failover capabilities using HP OpenView Storage Mirroring software*, data can be exchanged with a main office to support business continuity needs.

The ML110 G2 Storage Server offers customers quick restore functionality via DVD and dual operating system partitions. In the event the ML110 G2 Storage Server needs to be restored, a Quick Restore DVD allows customers to be up and running with a factory default image in minutes, not hours.

HP also offers a complete portfolio of services ranging from Storage Design and Architecture to various levels of on-going maintenance support. These services, for both hardware and software, ensure high performance and reliability.

* Microsoft Exchange storage, iSCSI Feature Pack, Print Server and HP OpenView Storage Mirroring software are not available on the 320 GB model.

The HP ProLiant ML110 G2 Storage Server is ideal for small or branch offices looking to lower IT costs. The ML110 G2 Storage Server delivers quick-to-install and simple-to-manage networked storage for files and Microsoft® Exchange 2003 data*, and can be upgraded to an iSCSI-based* storage consolidation solution.

hp

hp invent ®

The HP ProLiant ML110 G2 Storage Server offers NAS for file sharing, plus remote manageability for small or branch office locations at a price suitable for smaller IT budgets.

Features and benefits

- *Ready to deploy:* The hardware is pre-configured, and the operating system is pre-installed from the factory allowing you to deploy the system in minutes.

- *Cost-effective:* Low acquisition cost fits smaller capital spending budgets.

- *Simple management:* Web-based user interface enables system administrators to set up and manage the ML110 G2 Storage Server in only a few short steps, providing file and Microsoft Exchange storage services in a single, simple-to-manage storage server.

- *Versatile:* Each model provides a different processor, memory size and capacity point allowing customers to choose the one appropriate for their needs.

- *Remote manageability:* The HP Lights-Out 100 option provides remote management capabilities over the LAN or the Internet.

- *High performance:* The ML110 G2 Storage Server uses the latest Intel® Celeron™ or Pentium® 4 Processors, the fastest SATA hard disk drives, and hardware-based RAID for optimal performance.

- *Reliable:* The ML110 G2 Storage Server provides data protection capabilities like software-based RAID (320 GB model) and hardware-based RAID (640 GB and 1 TB models) and support for multiple backup and anti-virus packages.

- *Open:* All the major file serving protocols including SMB/CIFS, NFS, NCP, AppleTalk, HTTP and FTP are supported on the ML110 G2 Storage Server.

Technical specifications

HP ProLiant ML110 G2 Storage Server

Form factor	5U tower
Operating system	Microsoft Windows® Storage Server 2003 Express Edition (320 GB model) or Workgroup Edition (640 GB and 1 TB models). Workgroup Edition includes print support for up to five network attached printers.
Processor speed	2.8 GHz Intel Celeron (320 GB model), 3.2 GHz Intel Pentium 4 (640 GB and 1 TB models)
Memory	Standard 256 MB (320 and 640 GB models), 512 MB (1 TB model); expandable to 4 GB on all models
Network controller	Single auto sensing Gigabit NIC (embedded)
Optical drive	16X DVD-ROM
Storage capacity (raw)	320 GB (2 x 160 GB), 640 GB (4 x 160 GB) and 1 TB (4 x 250 GB)
Drive type	Non Hot-Plug 7200 RPM Serial ATA (SATA) on 320 GB model Hot-Plug 7200 RPM SATA on 640 GB and 1 TB models
Data protection	Software RAID (320 GB model) Hardware RAID 0,1, 0+1, 5 (640 GB and 1 TB models)
Remote management	Lights-Out 100 Remote Management Card (optional)
Dimensions (HxWxD)	16.9 x 7.9 x 21.7 in/43.0 x 20.0 x 55.0 cm
Temperature range	50° F to 93° F/10° C to 35° C (operating) –40° F to 150° F/–40° C to 66° C (shipping)
Humidity range	20% to 80% (operating) 5% to 90% (non-operating)
Weight	37 lb/16.8 kg (without packaging)

Ordering information

Part number	Product name	Description
383716-B21*	ML110 G2 Storage Server	320 GB fixed capacity
383717-B21*	ML110 G2 Storage Server	640 GB fixed capacity
383718-B21*	ML110 G2 Storage Server	1 TB fixed capacity

Options:

358346-B21	256 MB PC3200 DDR SDRAM DIMM Memory (1 x 256 MB)
358347-B21	512 MB PC3200 DDR SDRAM DIMM Memory (1 x 512 MB)
354563-B21	1024 MB PC3200 DDR SDRAM DIMM Memory (1 x 1024 MB)
383397-B21	HP Lights-Out 100 Remote Management card
331346-B21	CD-RW/DVD-ROM Combo Drive option
238547-B22	HP ProLiant Rack Enabling Kit
T3669A	HP ProLiant Storage Server iSCSI Feature Pack (Standalone Edition)—Includes media, license key retrieval instructions and documentation. Also includes HP ProLiant Application Storage Manager software. For use on standalone HP ProLiant Storage Server and HP StorageWorks NAS server products. (Not supported with 320 GB models.)

HP ProLiant ML110 G2 Storage Server

What's included	The HP ProLiant ML110 G2 Storage Server ships with all hardware and software needed to configure and serve files in a heterogeneous environment. The ML110 G2 Storage Server ships with a single Intel Celeron or Pentium 4 Processor, 256 MB or 512 MB of SDRAM (dependent on model), four SATA hard drives and a single power supply. The 640 GB and 1 TB models ship with an integrated SCSI card for attachment of a tape backup device. The ML110 G2 Storage Server comes with Microsoft Windows Storage Server 2003 operating system pre-installed.
Warranty and support	The ML110 G2 Storage Server comes with a one-year parts, labor and on-site (standard business hours, next-business-day response) warranty. Note: The hardware warranty covers firmware and embedded non-saleable software. Saleable software carries its own warranty. The HP Limited Software Warranty only ensures that the software media will be free of physical defects for a period of ninety (90) days from delivery.
	Exclusive remedy: The entire liability of HP and its suppliers and your exclusive remedy for software that does not conform to this limited warranty shall be the repair or replacement of the defective media. This warranty and remedy are subject to your returning the defective media during the warranty period to HP in the country in which you obtained the software.
	Product installation is available, but not included in the warranty.
Warranty and support options	The basic warranty service can be enhanced, and HP Installation services can be purchased. Support options with various response times and durations are available. These services include, but are not limited to, 4-hour same-day and next-day support, as well as extended coverage periods, 24x7, 1-year and 3-year.
Financial services	HP Financial Services provides innovative financing and financial asset management programs to help customers cost-effectively acquire, manage and ultimately retire your HP solutions. For more information on these services, please contact your HP sales representative or find us on the web at: www.hp.com/go/hpfinancialservices.
Customer support	HP Customer Support provides a broad spectrum of services to commercial and enterprise customers, including performance and availability services such as proactive mission-critical services and support management services for deployment of the entire IT infrastructure, including HP and multi-vendor environments. For more information on these services, contact your HP sales representative or visit www.hp.com/hps/support.
For more information	For more information on HP ProLiant Storage Servers, visit: www.hp.com/go/storageservers.

www.hp.com/go/storageservers

hp

i n v e n t