

HP ProLiant ML110 G5 Storage Server

Data sheet



Add affordable file storage capacity to your small or remote IT environment quickly and manage it more easily with the tower-based HP ProLiant ML110 G5 Storage Server.



You have better things to do than worry about file storage in your small or remote office. But your users continue to demand more space for their data, and data protection is becoming more of a concern. You need to add file storage that is powerful and easy to manage, and you need to do it fast.

The HP ProLiant ML110 G5 Storage Server is a fast, easy, and affordable way to add tower-based file storage to your small or remote office network. The Microsoft® Windows® -powered operating system is pre-installed and internal storage is pre-configured, so you're up and serving files in minutes. It supports multiple file sharing protocols, so you can consolidate and make a single centralized platform to manage and protect, or you can create a scalable disk-based backup/replication target.

Once your solution is installed, you'll find that you spend less time and effort on file management and maintenance. You can manage and troubleshoot from outside the office with either remote desktop or optional Lights-Out 100c remote management. Since it's running Windows, it integrates seamlessly into your Active Directory and Distributed File System (DFS) environments, runs your favorite antivirus and backup software, and has a familiar management look and feel. And don't forget that you can use an ML110 G5 Storage Server as a print server, too.

All ML110 G5 Storage Servers are built on industry standards and include features that protect and enhance your investment. The micro ATX tower platform delivers the flexibility you need with both SATA and SAS drive support, and the operating system includes intelligent tools like Quotas, File Screening, Storage Reporting, and Replication. Select models also support the optional Microsoft® iSCSI Software Target, so you can add block-based Exchange, SQL or other application storage capability to your network storage solution.

Key features and benefits

Go from out-of-the-box to file serving in minutes, not hours: The Windows-powered operating system is pre-installed and user storage is pre-configured, so it's the quick and easy way to add storage to your small/remote office network.

A single centralized file server platform to manage and protect: Consolidate islands of direct-attached storage (DAS) or low-capacity network attached storage (NAS) devices to one easy-to-use heterogeneous file serving platform, or create a scalable disk-based backup or replication target.

Microsoft® Windows® -powered operating system: It's Windows, so it integrates seamlessly into your Active Directory and DFS environments, runs your antivirus and backup applications, and limits your learning curve with its familiar user interface.

HP ProLiant industry-standard hardware: Relax—your investment is protected because you are not locked into a proprietary platform. The small tower platform supports up to four SATA or SAS 3.5" internal hard drives.

Remote manageability: Manage and troubleshoot from almost anywhere at both the operating system level (with Remote Desktop or HTTPS) and at the hardware component level (using optional Lights-Out 100c remote management).

Print server support: An ML110 G5 Storage Server is a Windows print server too, offering consolidation benefits to your Windows print environment.

Warranty and included services

All ML110 G5 Storage Servers come with a standard 1-1-1 warranty (1 year parts exchange, 1 year labor and 1 year onsite, next business day response) Also included: one year of HP Software Support, standard 9x5 business hours (software technical support and software product and documentation updates).

HP warrants only that the software media can be free of physical defects for a period of ninety (90) days from delivery. For more information about the Global Limited Warranty and Technical Support of HP, visit: www.hp.com/products/storageworks/warranty

HP Care Pack services

You can enhance technology operations, reduce risk, and drive business outcomes with easy-to-buy, easy-to-use scalable support packages for servers, storage,

networking, desktops, mobile computing, printing and imaging, and software. HP Care Pack services help you make the most of your hardware and software investments. They extend and expand your standard product warranty and let you choose the support levels that meet your business requirements, from basic to mission-critical, while helping you to contain total cost of ownership. HP Care Pack warranty extension can be purchased along with HP products to cost-effectively upgrade or extend your warranty. For many products, post warranty HP Care Pack services are available when your original warranty has expired. For more information on Storage Care Pack services, visit www.hp.com/services/storage_carepacks

HP Services

To fully capitalize on your HP StorageWorks ProLiant ML110 G5 Storage Server capabilities, requires a service partner who thoroughly understands your server technology and systems environment. With HP Services, you gain the advantage of established methodologies and the industry's broadest portfolio of integrated storage solutions for enhanced information management and optimization.

- **Support:** Hardware and software HP Care Pack, Integrated Support, Remote Technologies, Multi-vendor Environment support services & education services:
 - **Support Plus and Plus 24**—to extend HP Services committed response as well as speeding resolution of more complex interoperability problems
 - **Proactive 24**—proactive and reactive integrated hardware and software support, to help increase IT performance and availability and to improve IT management
 - **Critical Service**—comprehensive support solution for businesses that cannot tolerate downtime
 - **Remote Support**—HP Instant Support Enterprise Edition (ISEE) 24x7 remote and local monitoring for the entire business infrastructure—servers, storage, and networks
- **Deployment:** Installation and startup, implementation and Factory Express integration services
- **Availability:** Mission-critical, Data Center and ITSM assessment and improvement services
- **Performance:** Performance Analysis, Tuning and optimization, Vdisk/LUN Design and Implementation and packaged assessment services
- **Solutions:** Storage Essentials, Data Migration, Backup and Recovery, Electronic Vaulting, Data Replication for Continuous Access, Disaster Tolerant Management and Fast Recovery Services

Your IT infrastructure has become the business infrastructure—where delivering successful business outcomes is the key goal. HP can help you manage and evolve your storage environment so that you can facilitate future growth, decrease operational costs, and protect data while reducing risk.

For more information about HP services and support, contact your HP sales representative or HP-authorized Channel Partner. Or, visit www.hp.com/hps/storage.

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Operating Systems	Microsoft® Windows Storage Server 2003 Release 2, Workgroup x64 Edition [320 GB SATA model] Microsoft® Windows Storage Server 2003 Release 2, Standard x64 Edition [1 TB SATA, 2 TB SATA, and 584 GB SAS models]
Processors	Single-Core Intel® Celeron® 420 1.6 GHz [320 GB SATA model] Dual-Core Intel® Pentium® E2160 1.8 GHz [1 TB SATA, 2TB SATA, and 584 GB SAS models]
Processor Cache	512 KB (1 x 512 KB) Level 2 [320 GB SATA model] 1 MB (1x1 MB) Level 2 [1 TB SATA, 2 TB SATA, and 584 GB SAS models]
Number of Processors Standard	1
Maximum Number of Processors	1
Standard Memory	512 MB (1 x 512 MB) standard [320 GB SATA model] 1 GB (1 x 1 GB) standard [1 TB SATA, 2 TB SATA, and 584 GB SAS models]
Maximum Memory	8 GB
Memory Type	PC2-6400 unbuffered DDR2 ECC 800MHz
Network Adapter	Embedded NC105i PCIe Gigabit Ethernet Server Adapter
Storage Controller	None—SW RAID [320 GB SATA model] Smart Array E200/128 MB Controller with BBWC [1 TB SATA, 2 TB SATA, and 584 GB SAS models]
Drives/Model Description	4 x 160 GB SATA 7.2 K HDD [320 GB SATA model] 4 x 250 GB SATA 7.2 K HDD [1 TB SATA model] 4 x 500 GB SATA 7.2 K HDD [2 TB SATA model] 4 x 146 GB SAS 10 K HDD [584 TB SAS model]
External Expansion Support	None
Maximum Storage Capacity (raw)	2 TB
Expansion Slots	1 x full-height, half-length 32-bit/33 MHz PCI at 3.3V slot 1 x full-height, half-length PCIe x1 slot (x8 connector) 1 x full-height, full-length PCIe x1 slot (x8 connector) 1 x full-height, full-length PCIe x8 slot (occupied by Smart Array E200/128 MB controller on 1 TB SATA, 2 TB SATA, and 584 GB SAS models) 1 x Lights-out 100c option slot
Optical Drive	DVD-ROM
Redundant Power	-N/A-
Redundant Fan	-N/A-
Remote Management	Lights-Out 100c (optional)
Form Factor	Micro ATX Tower
Warranty (parts-labor-onsite)	1/1/1
Number of Users (starting)	10
Number of Users (maximum)	25

For ordering information, please see QuickSpecs: www.hp.com/go/QuickSpecs

Additional HP support services for Storage

HP Services provides a broad spectrum of services to commercial and enterprise customers, including performance and availability services such as proactive mission-critical services. We also provide support management services for deployment of the entire IT infrastructure, including HP and multi-vendor environments. For more information on these additional HP support services, visit www.hp.com/hps/storage

Proactive and remote support services

As your information technology environment becomes closely aligned with your business strategies—enhancing your IT infrastructure investments, improving overall system availability and utilization become central to your success in the marketplace. HP Services provide a full spectrum of Web-based resources that deliver efficient problem-solving and fast answers. HP Services help you manage the lifecycle of your products—remote monitoring and support solutions for your servers, storage devices and networks—and proactive and preventative tools to help you manage your IT environment.

HP Factory Express

HP Factory Express is a comprehensive, flexible portfolio of pre-defined, pre-priced and pre-configured solutions that are customized, and integrated with factory solutions and deployment services. This portfolio includes more than 50 HP factory-based services for Personal Computing, Server, Storage and Imaging and Printing product lines, supporting HP commercial products from the desktop to the data center with

Microsoft® Windows®, Linux, and HP-UX. Factory Express is a source for configuration, customization, and integration solutions and deployment services. For more information on HP Factory Express, visit www.hp.com/go/factory-express

Education services

HP offers a variety of educational methods to fit your training needs including traditional instructor-led courses at one of our 120 training centers worldwide, onsite training customized to your needs, in your facility, or even Remotely Assisted Instruction Learning that combines the superb traditional classroom training (including its live instructor and labs) with the superb online training (no traveling required). And if you like learning on your own schedule, at your own pace, make use of e-learning opportunities on the award-winning HP IT Resource Center, a “learning community” with extensive on-demand resources that can be accessed 24x7. For more information on Education services, visit education.hp.com/curr-storsan.htm

Financial services

HP Financial Services provides innovative financing and financial asset management programs to help customers cost-effectively acquire, manage and ultimately retire their HP solutions. For more information on Financial services, visit www.hp.com/go/hpfinancialservices

For more information

For more information about the HP ProLiant ML110 G5 Storage Server contact any of our worldwide sales offices or visit our Web sites at: www.hp.com/go/storageservers

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