

# HP ProLiant ML350 G4p Storage Server



The HP ProLiant ML350 G4p Storage Server is a powerful NAS solution that has been designed for small to medium business (SMB) or remote offices deploying file, print, and/or an Exchange. The versatile design supports SCSI-based models, providing both high performance and high reliability. Options include a second processor and redundant power and cooling. The ML350 G4p Storage Server can provide up to 1.8 TB of storage. The unit comes preconfigured with the Microsoft Windows Storage Server 2003.

The ML 350 G4p includes Integrated Lights Out (iLO) and remote management capabilities in all models.

## Features and benefits

- **Change without chaos**—Versatile SCSI-based models allow a choice of storage solutions to meet both performance and budget requirements. The SCSI-based models offer high performance, high capacity and high reliability.
- **Growth without limits**—Single/Dual Intel® Xeon® 3.0 or 3.2 GHz/800MHz front side bus (FSB) with 2 MB L2 cache processors provides rock solid performance at an affordable price; dual processor upgrades support additional users and boost response times.
- **Integrated Lights Out standard**—Remote management of your ML350 G4p Storage Server from anywhere, anytime.
- **Windows Storage Server 2003 operating system with Storage Resource Manager and Services for UNIX®**—Pre-installed OS allows for quick and easy deployment, multiple file protocols, full Windows integration with Active Directory, built-in “Snapshot” capability with Virtual Shadow Copy Service (VSS), quotas and file screening, and additional storage reporting capabilities are included.

The HP ProLiant ML350 G4p Storage Server is a tower Storage Server designed for the SMB market and fits between the ML110 G2 and ML370 G4 Storage Server products. The ML350 G4p is a very versatile Storage Server with high performance, high capacity SCSI-based models. The ML350 G4p Storage Server now includes Integrated Light Outs (iLO) with an Advanced License pack allowing remote management anywhere, anytime.

## HP ProLiant ML350 G4p Storage Server



<b>Form factor</b>	5U Tower
<b>Cluster support</b>	N/A
<b>Fault-tolerant features</b>	Dual processors, hardware-based RAID, redundant power/cooling
<b>Hot-plug support</b>	Hot plug SCSI drives, hot-plug power supplies
<b>Processor</b>	Single or dual Intel Xeon 3.0 or 3.2 GHz/800MHz front side bus (FSB) with 2 MB L2 cache
<b>Memory configuration/max</b>	512 MB (base model)/4 GB 1 GB (internal storage model)/4 GB
<b>Protocols</b>	CIFS/SMB, NFS, NCP, AppleTalk, HTTP and FTP
<b>RAID support</b>	HW RAID 0, 1, 1+0, 5
<b>SCSI interface</b>	One external VHDCI connector
<b>Integrated software</b>	Windows Storage Server 2003 Standard Edition, Storage Resource Manager 2.0, Services for UNIX 3.5
<b>Management software</b>	Tivoli TME, IBM Netview, CA Unicenter or BMC
<b>Dimensions (HxWxD)</b>	18.43 x 8.66 x 25.2 in (46.8 x 22 x 64 cm)
<b>Temperature</b>	Operating: 50° to 95°F (10° to 35°C) Shipping: -40° to 158°F (-40° to 70°C)
<b>Weight</b>	60 lb (27.24 kg) without hard drives

## HP ProLiant ML350 G4p Storage Server



Part number/SKU	Product name	Description
393825-DM1	HP ProLiant ML350 G4p Storage Server	SCSI base model (North America/Latin America)
393825-DP1	HP ProLiant ML350 G4p Storage Server	SCSI base model (Asia Pacific)
393825-421	HP ProLiant ML350 G4p Storage Server	SCSI base model (Europe)
393825-011	HP ProLiant ML350 G4p Storage Server	SCSI base model (Australia)
393826-DM1	HP ProLiant ML350 G4p Storage Server	1.2 TB SCSI model (North America/Latin America)
393826-DP1	HP ProLiant ML350 G4p Storage Server	1.2 TB SCSI model (Asia Pacific)
393826-421	HP ProLiant ML350 G4p Storage Server	1.2 TB SCSI model (Europe)
393826-011	HP ProLiant ML350 G4p Storage Server	1.2 TB SCSI model (Australia)

## Options

382184-B21	Intel Xeon 3.0 GHz 2 MB processor option kit	
382182-B21	Intel Xeon 3.2 GHz 2 MB processor option kit	
384163-B21	512 MB Advanced ECC PC2-3200 DDR2 SDRAM DIMM Kit (1 x 512 MB)	
343055-B21	1 GB Advanced ECC PC2-3200 DDR2 SDRAM DIMM Kit (1 x 1024 MB)	
343056-B21	2 GB Advanced ECC PC2-3200 DDR2 SDRAM DIMM Kit (2 x 1024 MB)	
343057-B21	4 GB Single-Rank Advanced ECC PC2-3200 DDR2 SDRAM DIMM Kit (2 x 2048 MB)	
375004-B21	4 GB Dual-Rank Advanced ECC PC2-3200 DDR2 SDRAM DIMM Kit (2 x 2048 MB)	
350964-B22	300 GB 10,000 rpm U320 universal hard drive (1")	
286716-B22	146.8 GB 10,000 rpm U320 universal hard drive (1")	
286714-B22	72.8 GB 10,000 rpm U320 universal hard drive (1")	
347708-B22	146.8 GB 15,000 rpm U320 universal hard drive (1")	
286778-B22	72.8 GB 15,000 rpm U320 universal hard drive (1")	
286776-B22	36.4 GB 15,000 rpm U320 universal hard drive (1")	
244059-B21	ML3xx two bay hot plug SCSI drive cage	Base model and internal SCSI model
238547-B22	ProLiant rack enabling kit	Base model and internal SCSI model

## What's included

The HP ProLiant ML350 G4p Storage Server ships with 1 Intel Xeon Processor (3.0 or 3.2 GHz) with 800 MHz FSB, 512 MB or 1 GB memory, 6 expansion slots, NC7761 PCI Gigabit NIC (embedded), Smart Array 642 controller with 128 MB BBWC (SCSI Models), single power supply and fan (Base Model) or redundant power supply and fan (1.2 TB SCSI model), VHDCI SCSI internal to external cable kit, two (2) 36.4 GB Ultra 320 drives for OS (SCSI models), DVD Drive, four hot plug SCSI drive bays, Windows Storage Server 2003 OS, Disaster Recovery DVD and web UI in a tower form factor (5U) server.

# HP ProLiant ML350 G4p Storage Server

## Warranty service and support

HP warrants only that the Software media will be free of physical defects for a period of ninety (90) days from delivery. Includes one year of HP Software Support 24 x 7 (software technical support and software product and documentation updates).

For more information about HP's Global Limited Warranty and Technical Support, visit [ftp://ftp.compaq.com/pub/products/storageworks/warranty/EN\\_321708-008.pdf](ftp://ftp.compaq.com/pub/products/storageworks/warranty/EN_321708-008.pdf)

## Warranty and support options

HP Care Pack Services offer upgraded service levels to extend and expand your standard product warranty with easy to buy, easy to use support packages that help you make the most of your hardware and software investments. They let you choose the support levels that meet your business requirements, from basic to mission-critical. They help you contain total cost of ownership. For many products, post-warranty HP Care Pack Services are available when your original warranty has expired.

### Why purchase an HP Care Pack service?

Your standard warranty protects against product defects. HP Care Pack Services help you guard against unplanned downtime, which can reduce your productivity and profitability. These convenient service packages:

- Protect your investment in HP products
- Provide consistent, predictable levels of support across your entire department or business
- Ease budget planning with fixed-cost support that includes parts and labor
- Give you direct access to proven technical and problem-solving expertise
- Offer a choice of response-time and repair-time commitments
- Deliver prompt, measurable results
- Are available whenever and wherever you do business

*HP Care Pack availability may vary by country and product.*

Additional information about HP Care Pack Service features and benefits is available at <http://www.hp.com/hps/carepack/services>

## Recommended services

### Software Installation and Start Up Service

- Cost-effectively obtain specialized expertise for a complex, one-time task
- Enjoy top performance right from the start
- Shorten your time-to-ROI

### Three years of HP Software Support 24 x 7

- Improve the productivity of system managers and operators
- Improve system performance and reduce downtime due to software defects
- Expedite problem resolution through expert-level technical resources
- Enjoy consistent service coverage across geographically dispersed sites
- Update HP and selected third-party software at a predictable cost
- Take advantage of subscription savings on software updates
- Keep your license compliancy up-to-date

## Financial Services

HP Financial Services provides innovative financing and financial asset management programs to help you 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](http://www.hp.com/go/hpfinancialservices)

## HP 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 multivendor environments. For more information on these services, contact your HP sales representative or visit [www.hp.com/hps/support](http://www.hp.com/hps/support)

## For more information

For more information on HP StorageWorks Network Attached Storage visit <http://www.hp.com/go/storageservers>

© 2005 Hewlett-Packard Development Company, L.P. The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein. Microsoft and Windows are trademarks of Microsoft Corporation in the U.S. and/or other countries. Intel and Xeon are a trademark or registered trademark of Intel Corporation or its subsidiaries in the United States and other countries. UNIX is a registered trademark of The Open Group.

For more information visit [www.hp.com/go/storageservers](http://www.hp.com/go/storageservers)

5982-8717EN rev.2, 6/2005

