

# HP StorageWorks 1/8 G2 Tape Autoloader

Product Brief



The HP StorageWorks 1/8 G2 Tape Autoloader provides an ideal entry-point to automated backup by combining up to 12.8 TB\* of compressed storage capacity with sophisticated tape library features in a compact 1U form factor.

The HP StorageWorks 1/8 G2 Tape Autoloader provides cost-effective, high capacity automated backup as a perfect entry point to unattended data protection for small and medium businesses, workgroups or remote offices.

With a compressed capacity of up to 12.8 TB\* using LTO-4 Ultrium 1760 Tape Drives, the 1/8 G2 Tape Autoloader provides complete peace of mind. No more struggling to remember to change tapes or start backup programs.

The 1/8 G2 Tape Autoloader is available with a choice of LTO Ultrium SAS and SCSI tape drives. It holds up to eight data cartridges for a week's worth of backup and delivers easy media management through the standard barcode reader and two 4-slot removable magazines. Designed in a compact 1U form factor, the HP StorageWorks 1/8 G2 Tape Autoloader is equally at home in a data center rack or on a desk top next to the office server. The autoloader can be used in either direct-attached backup for multiple servers or across a LAN with remote management simplified by a browser-based interface to reduce dependencies on local IT staff.

The HP StorageWorks 1/8 G2 Tape Autoloader delivers a solution that is:

- **Simple** – an easy transition for IT staff from stand alone tape to an automated backup solution. This transition is supported by additional library functionality including the standard bar code reader to facilitate managing and tracking media, and an integrated web-based remote management interface to eliminate the need for IT resources to be located on site.
- **Reliable** – in storage and movement of data. With a track-record of reliability, the autoloader now provides customers even more peace of mind with the new HP LTO-4 Ultrium Tape Drive. This latest LTO Ultrium tape drive includes a data encryption capability to enhance data privacy without impacting backup performance, it provides additional security when moving data offsite.
- **Affordable** – by packing the maximum amount of storage into the minimum amount of space. Using the 1/8 G2 Autoloader with a HP StorageWorks LTO-4 Ultrium Tape Drive enables up to 12.8 TB\* of compressed capacity in a 1U form factor.

\* = using a typical 2:1 data compression ratio

# The HP StorageWorks 1/8 G2 Tape Autoloader delivers best in class footprint storage capacity and features of a bar code reader and web-based remote management capabilities.

## Features and Benefits

**Greater value** – providing up to 12.8 TB\* of compressed storage capacity in a 1U form factor enables exceptional storage density without consuming valuable rack space. Choose from a range of 1/8 G2 autoloader models to suit your storage needs and budget:

- Up to 12.8 TB\* compressed capacity using LTO-4 Ultrium 1760
- Up to 6.4 TB\* compressed capacity using LTO-3 Ultrium 920
- Up to 3.2 TB\* compressed capacity using LTO-2 Ultrium 448
- Up to 1.6 TB\* compressed capacity using LTO-1 Ultrium 232

The HP StorageWorks 1/8 G2 Tape Autoloader comes as a complete solution with HP StorageWorks Data Protector Express, Single Server Edition for Windows/Linux/NetWare.

**Simple to use, easy to manage** – the 1/8 G2 autoloader provides an ideal transition from stand-alone to automated tape backup. By automatically changing tapes, manual intervention is minimized and operating errors are reduced, enabling more reliable and consistent backups. An integrated web-based remote management capability allows a remote administrator to control, configure, monitor and troubleshoot the device and eliminating the need for costly on-site IT resources.

**Agility in storage and movement of data** – each autoloader includes a user-configurable mail slot for the import/export of media cartridges. The autoloader includes two removable 4-slot magazines for bulk loading of media and also provides a convenient bulk storage unit for moving media off-site. A standard bar code reader provides faster inventory times and facilitates tracking of media.

**Added data security** – to greatly enhance data privacy, the HP StorageWorks 1/8 G2 Autoloader is available with LTO-4 Ultrium 1760 hardware encrypting tape drives for secure, high-performance backup. HP offers an HP StorageWorks 1/8 G2 and MSL LTO-4 Encryption Kit designed as an affordable, easy to use, self-contained encryption solution.

**Reduced installation time** – the 1/8 G2 autoloader is delivered as rack-ready for quick installation in a standard 19" rack, with the purchase of a separate rack-kit. It can also be converted to a tabletop configuration by simply installing the enclosed rubber feet.

**Customer serviceable and replaceable components** – the easy to manage modular design of the 1/8 G2 autoloader allows for quick service or repair of units to reduce downtime and maximize efficiency.

**Investment protection** – benefit from a straight-forward upgrade path as your storage capacity and performance needs grow by interchanging 1/8 G2 Tape Autoloader drives into a HP StorageWorks MSL2024, MSL4048 or MSL8096 Tape Library.

\* = using a typical 2:1 data compression ratio



Tape drives supported	LTO-4 Ultrium 1760	LTO-3 Ultrium 920	LTO-2 Ultrium 448	LTO-1 Ultrium 232
Number of drives supported	One	One	One	One
Maximum capacity (compressed 2:1)	12.8 TB	6.4 TB	3.2 TB	1.6 TB
Maximum sustained transfer rate (compressed 2:1)	576 GB/hr	432 GB/hr	172.8 GB/hr	115.2 GB/hr
Interface	Ultra320 LVD SCSI 3Gb/sec SAS	Ultra320 LVD SCSI 3Gb/sec SAS	Ultra160 LVD SCSI	Ultra160 LVD SCSI
Number of cartridge slots	8			
Form Factor	1U	Out of box dimensions: 1.7 x 19 x 31.9 in (4.4 x 48.2 x 80.9 cm) Weight: 25.4 lb (11.5 kg)		
Mount type	Rack-mount and tabletop; unit delivered ready for rack-mount, rubber feet included in the box for tabletop configuration			
Warranty	One-year parts exchange, next business day			
Recommended media	For information on recommended HP Storage Media, please visit: <a href="http://www.hp.com/go/storagemedia">www.hp.com/go/storagemedia</a>			

Ordering Information

Product number/SKU	Product
AJ816A	HP StorageWorks 1/8 G2 LTO-4 Ultrium 1760 SCSI Tape Autoloader
AK377A	HP StorageWorks 1/8 G2 LTO-4 Ultrium 1760 SAS Tape Autoloader
AH165A	HP StorageWorks 1/8 G2 LTO-3 Ultrium 920 SCSI Tape Autoloader
AH558A	HP StorageWorks 1/8 G2 LTO-3 Ultrium 920 SAS Tape Autoloader
AH164A	HP StorageWorks 1/8 G2 LTO-2 Ultrium 448 SCSI Tape Autoloader
AH163A	HP StorageWorks 1/8 G2 LTO-1 Ultrium 232 SCSI Tape Autoloader

Options

AH166A	HP 1U Tape Autoloader Rack Kit	Required to install the unit in a standard 19-inch rack; includes rails and rackmount instructions
AH167A	HP 1/8 G2 Right Magazine Kit	For use only on the right side of the 1/8 G2 Tape Autoloader; additional 4-slot magazine
AH862A	HP 1/8 G2 Left Magazine Kit	For use only on the left side of the 1/8 G2 Tape Autoloader; additional 4-slot magazine (includes mail slot)
AH199A	HP 1/8 G2 Rack-to-Tabletop Conversion Kit	For use in converting the rack-ready 1/8 G2 Tape Autoloader into a structurally rigid and fully enclosed tabletop model; maximum load up to 33 pounds (15 kgs)

What's included

HP StorageWorks 1/8 G2 Tape Autoloader unit; RJ-45 Ethernet cable; set of six rubber feet (for desktop use); HP StorageWorks Data Protector Express, Single Server Edition for Windows/Linux/NetWare CD (with download instructions); product documentation including User and Service Guide (CD), and Getting Started Poster.

SCSI models also include: 2.5 m VHDCI to HDTS68 SCSI cable; HDTS68 SCSI terminator.

SAS models also include: 2 m External Infiniband (SFF8470) to Mini SAS (SFF8088) 1x SAS cable

# HP Service and Support

## HP Warranty

The HP StorageWorks 1/8 G2 Tape Autoloader includes 1-year, next business day, parts exchange.

For more information about HP's Global Limited Warranty and Technical Support, visit:

[www.hp.com/products/storageworks/warranty](http://www.hp.com/products/storageworks/warranty)

## HP Care Pack services

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.

HP Care Pack warranty extensions 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 these services, contact your local HP representative, authorized HP business partner, or visit: [www.hp.com/go/storage/carepacks](http://www.hp.com/go/storage/carepacks)

## Additional HP support services

HP Services provides a broad spectrum of services to commercial and enterprise customers, including performance and availability services such as proactive mission-critical services, as well as 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 representative, authorized HP business partner or visit: [www.hp.com/hps/storage](http://www.hp.com/hps/storage)

## Education services

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## Financial services

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