

Overview

HP StorageWorks Network Storage Router m2402

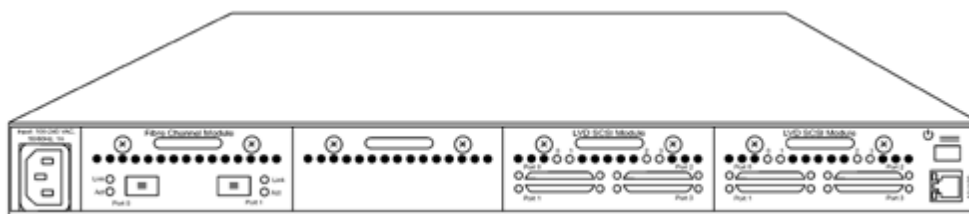
As storage capacity doubles every year businesses struggle to keep up with storage demands. Contributing factors to the growth in storage include applications becoming more complex, increasing file sizes, and an increasing number of government regulations regarding the storage of information. In addition to this, companies need to operate 24 x 7 to not be left behind. To keep up with these demands, they look to service providers to guide them in their decision making when creating a data protection strategy. Key components of this strategy should be reliability, lower total cost of ownership, investment protection, and ease of use.

The StorageWorks Network Storage Router m2402 offers all of the above. The m2402 is a key component in a complete data protection solution. It is a 1U rackmount Fibre Channel-to-SCSI router with two 1Gb or 2 Gb Fibre Channel ports and four SCSI (LVD/SE or HVD) ports on the base model and allows multiple host servers to communicate with a SCSI tape device over a Fibre Channel link. It is targeted towards customers whose backup window is impacting mission critical business operations and need to reduce or remove the impact of the backup window. It offers support for server-less backup, 1 Gb and 2 Gb Fibre Channel and has web based management allowing for remote management. This is the first HP server-less solution.

The m2402 supports the LTO/SDLT/DLT MSL5000 and ESL9000 family of libraries as well as HP's Optical Jukebox family. It ships with an accessory kit that includes a tabletop kit and a rail kit. Additional FC and SCSI cable kits will need to be selected. Either SC-LC for 1Gb Fibre Channel connections or LC-LC for 2Gb Fibre Channel connections.



Power Side



Port Side

Models

HP StorageWorks External Network Storage Router m2402 (2 FC x 4 LVD SCSI)

262653-B21

HP StorageWorks External Network Storage Router m2402 (2 FC x 4 HVD SCSI)

262654-B21

Overview

Key Features

- LVD and HVD Ultra3 160 SCSI capability (VHDCI connects)
 - In-band and out-of-band management capability
 - Modular design offering scalability
 - Standard Accessory Kit, shipped with the unit, model includes tabletop kit and rail kit
 - Required Fibre Channel Cable Kit, selected separately, includes a 1 GB 5 meter Fibre Channel cable OR a 2 GB 5 meter Fibre Channel cable
 - Standard Configuration:
 - Base chassis populated with 1 dual-port Fibre Channel module, 1 quad-port SCSI module, 2 empty bays for additional quad port SCSI or dual port FC modules and one empty bay for additional power supply.
 - Maximum Configurations (For maximum performance router should be configured with input modules on the left and output on the right):
 - Chassis populated with 1 dual-port Fibre Channel module and 3 quad-port SCSI modules
 - Chassis populated with 2 dual-port Fibre Channel modules with 2 quad-port SCSI modules
 - Chassis populated with 3 dual-port Fibre Channel modules with 1 quad-port SCSI module
 - Two dual-redundant power supplies
 - Serverless Backup Options supported include:
 - Computer Associates BrightStor ARCserve Serverless Backup Option with ARCserve Image Option
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Customer Benefits

- Server-less Backup Support
 - 2 Gb and/or 1 Gb Fibre Channel Support on the same router
 - Web Based Management
 - LVD and HVD SCSI Support
 - Ability to scale router as needed with modular design. Supports 2 Gb/1Gb FC on same router and LVD and HVD on same router
 - Provides connectivity for up to 2 Ultrium/SDLT/DLT drives per SCSI bus with a single router
 - In-band and out-of-band management capability
 - Exceeding 1GB memory bandwidth, 300 MB/s throughput, and over 10,000 IO's/sec
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Tape Library Connectivity

- For the latest connectivity information please visit <http://www.hp.com/go/ebs>
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Optical Jukebox Connectivity

- For the latest connectivity information please visit <http://www.hp.com/go/udo>

Product Highlights

Manageability	<p>Configure and access device status, statistics and mapping with HTTP, SNMP, serial port visibility, Telnet, or FTP.</p> <p>Web Based Management Tool -- a web application management tool for configuring and managing storage devices. The graphical user interface allows end users to configure the router by "pointing and clicking" on a graphical representation of the router. The manager can be accessed from any computer with a web browser (as long as this computer has security access privileges to access the router).</p> <p>Selective Storage Presentation (SSP) -- allows multiple servers to share a single data router. And by providing a unique map for each host, the user can limit what each host has access to.</p> <p>SCSI Controller Command (SCC) -- provides a means for the host server operating system to determine the number FC LUNs supported by the NSR.</p>
Scalability	<p>Can start with 4 SCSI ports and grow to 8 ports or 12 ports; can mix LVD with HVD; can transition to LVD without replacing NSR chassis. Can add a second power supply for dual-redundancy.</p>
Configurations Supported	<p>Configuration Support matches Library support. For details, please see the Library QuickSpecs for supported configurations.</p> <p>*Serverless Backup Options supported include: Computer Associates BrightStor ARCserve Serverless Backup Option with ARCserve Image Option.</p>
Serviceability	<p>Faulty modules can be recognized and replaced without rebooting the host</p> <p>Power Supplies and Fan modules are hot swappable</p>
Rack Density	<p>1U (1.75 inches)</p>
Service and Support	<p>HP Services provides a wide range of service offerings that are available to enhance and/or extend the support provided under warranty.</p> <p>NOTE: Certain restrictions and exclusions apply. Consult the HP Customer Support Center.</p> <p>http://www.compaq.com/services/carepaq/us/priority/cp_storage.html</p>

Service and Support, HP Care Pack and Warranty Information

Warranty

(1) One-year warranty on site next day response.

NOTE: Certain restrictions and exclusions apply. Consult the HP Customer Support Center for details.

Warranty Upgrade Options

- Response - Upgrade on-site response from next business day to same day 4 hours
 - Coverage - Extend hours of coverage from 9 hours x 5 days to 24 hours x 7 days
 - Duration - Select duration of coverage for a period of 1, 3, or 5 years
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Software Product Services

- Standalone telephone support
 - Rights to new license version
 - Media and documentation updates
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Hardware Product Services

- Installation services
- On-site maintenance (includes warranty support)
- Response time upgrades during the warranty period
- Post-warranty coverage
- RAID setup and performance consulting via statement of work

For additional hardware installation and maintenance information, please refer to the URLs listed below:

http://h18005.www1.hp.com/services/hardware/hw_installation.html

<http://h18005.www1.hp.com/services/carepaq/us/hardware/>

HP Care Pack Information

- HP Care Pack is defined as an upgrade to the product warranty attribute, available for a specific duration and hours of coverage.
- HP Care Pack is not available for less than the product's warranty duration.
- HP Care Pack is available for sale anytime during the warranty period for most products, but the commencement date will be the same as the Warranty Start Date (delivery date to end user customer). Proof of purchase may be required.
- HP Care Pack services are prepaid.

NOTE: For additional HP Care Pack (hardware & software) information, as well as orderable part numbers, please refer to: <http://h18005.www1.hp.com/services/carepaq/index.html>

Related Options

NOTE: This is a list of related options. Some may be discontinued.

HP StorageWorks Network Storage Router m2402 Options	LVD Module Option Kit	262659-B21
	HVD Module Option Kit	262660-B21
	FC Module Option Kit	262661-B21
	POWER Supply Option Kit	262662-B21

Cables	2m SW LC/SC Fibre Channel Cable Kit	221691-B21
	5m SW LC/SC Fibre Channel Cable Kit	221691-B22
	15m SW LC/SC Fibre Channel Cable Kit	221691-B23
	2m SW LC/LC Fibre Channel Cable Kit	221692-B21
	5m SW LC/LC Fibre Channel Cable Kit	221692-B22
	15m SW LC/LC Fibre Channel Cable Kit	221692-B23

Technical Specifications

Dimensions (H x W x D)	Out of box	1.70 x 17.00 x 20.50 in/ 4.31 x 43.18 x 51.76 cm
	Shipping	9.0 x 25.0 x 24.50 in 22.86 x 63.50 x 62.23 cm
Weight	Out of box	15.0 lb/6.8 kg
	Shipping	25.0 lb/11.3 kg
Control Indicators	Chassis LED	Power (Green=good, Amber=fault)
	Fibre Channel Module LEDs	Link, Activity
	Ethernet Port	Link, Activity
	Quad SCSI Modules	Four (4) SCSI Activity LEDs, 1 per channel
Connectivity	Ports	Chassis: 9 pin D-sub Serial port Fibre Channel Module: 2 Fibre Channel HVD SCSI Module: 4 HVD SCSI ports (VHDCI connects) LVD SCSI Module: 4 LVD SCSI ports (VHDCI connects) One (1) 10/100 TX Ethernet port
	Topology Protocols	Fibre Channel Arbitrated Loop, Switched Fabric FCP (SCSI 3), PLDA
Temperature Range	41° to 104° F/5° to 40° C	
Relative Humidity	Operational	90%
	Storage	95%
Input Requirements	Voltage	90 to 264 VAC
	Line Frequency	47 to 63 Hz
	Power (Watts)	75W maximum (2 FC x 12 HVD)

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