GARRISON data storage systems

GARRSION OVERVIEW

Maximize your network attached storage capacity, improve your cost/GB ratio and increase your overall network performance with Seek's new Garrison storage solutions. Garrison by Seek Systems allows you to enjoy the benefits of a feature-rich, high-performance storage without the high cost of ownership. Garrison is the solution of choice to provide the power and features to support today's most dynamic and demanding network infrastructures. Packed with server management, security and mission-critical features Garrison by Seek Systems can offer up to 4.0TB in a 3U space with the most competitive value in the marketplace.

KEY FEATURES

- Highest featured RAID functionality, supporting RAID levels 0, 1 (0+1), 3, 5, 10, 30, 50, NRAID, and JBOD
- Highest storage density with 16 drives in 3U space
- Two 2Gbps Fibre Host channels or Two Ultra160 SCSI Host channels
- Cluster capable
- Intelligent Drive Handling for managing bad blocks during rebuild and the manual Media Scan function for data protection Integrated RAIDWatch management software intelligently keeps you informed on critical system events by e-mail or traps and additionally provides a web browser based easy-to-use GUI compatible with any operating system platform
- Multiple array configurations with different RAID levels, optimized on a per array basis
- Auto detection, auto rebuild, hot spare, and hot-swap capability
- Supports up to 1024 LUNs for host mapping

GARRISON is ideal for the following applications:

- **High capacity storage for streamed media such as video or music**
- **Archival storage for e-mail, and corporate documents**
- **Excellent storage for scientific information such as geological survey records or studies**
- **Primary or archival storage for medical images and records**

GARRISON storage systems offer customers:

- **Increased storage capacity**
- **Improved storage reliability**
- **Reduced storage related expenses**
- **Additional storage for new applications**
- **Improved disaster recovery storage**

Seek Systems

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Garrison Specifications

RAID

Multiple arrays configurable with dedicated or global hot spares.

RAID levels supported: RAID 0, 1 (0+1), 3, 5, 10, 30, 50, NRAID and JBOD

Online expansion by

1.   Adding new drives
2.   Copying and replacing drives with drives of larger capacity

Automatic background rebuild
Intelligent Drive Handling

- In degraded mode: Skipping irreparable blocks to continue rebuild
- In normal operation: Data Block verification and repair
- Optimization setting for random or sequential I/Os

Systems Components

Redundant, hot-swappable components, designed for no single point of failure

- 3U RAID enclosure
- Single RAID controller
- 16 drive trays
- Dual redundant power supplies
- 2 hot-swappable fan modules

Management

Firmware-embedded Java-based GUI RAID manager
Centralized management of multiple arrays over in-band SCSI or Ethernet
Real-time event notification over Email, LAN broadcast, or SNMP traps
Host-side SES emulation with pass-through to back-end SES emulation

SNMP 2.0 MIBs with get and set commands

Firmware-embedded utility via LCD keypad or RS-232C port

Drive Interface

3.5″, 1″ high 250GB Western Digital SATA disk drives

16 hot-swappable via SCA-II connectors

Dedicated bandwidth to each connected drive

Host Interface

Dual Ultra SCSI 320

Dual 2Gb Fiber Channel

Maintenance & Availability

Numerous maintenance options are available from Seek Systems

Immediate array availability

Controller voltage and temperature self-diagnostics

Auto switch Cache policy and Auto Shutdown

When a RAID controller detects conditions exceeding preset thresholds, the following actions will be exerted to protect the hardware:

1.   Automatically flush cached data and switch the array's caching mode form write-back to write-through

2.   Commence an auto shutdown

All environmental thresholds associated with this mechanism are user-configurable and caching mode changes back to write-back once normal condition is restored.

Physical/Electrical

Interfaces:

- 2 VHDCI 0.8mm SCSI connectors
- Two audio jacks for RS-232C serial port (38400, n, 8, 1) and UPS support
- One RJ-45 Ethernet port

Power supply:

2 redundant, hot-swappable power supplies with PFC

Input: 90~26VAC, 47~63Hz

Output: +5V, 25A max.; +12V, 32 max.; +3.3V, 20A max., 460watts capacity

Cooling fans

4 cooling fans in two separate modules:

Operating temperatures: 5 to 40° C

Dimensions

Chassis dimensions: 131H x 446.2W x 500 mm
(w/protrusions): 131H x 485W x 532D mm
Package dimensions: 476H x 592W x 695D mm

System weight (w/o drives):

Net weight: 24 kg
Gross weight: 32.5 kg

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About Seek Systems

Seek Systems, headquartered in Woodinville, WA, is a leading provider of storage systems for business and government. Seek develops, manufactures and supports a wide range of storage solutions including its FasFile Xcelerator™ and Garrison™ product families. Seek's products are know for high storage capacity, accelerated performance characteristics, maximum flexibility and low cost. Seek Systems develops, designs and supports all of its products in the United States. For more information please visit us at www.seeksystems.com