

Quantum Extends NAS Leadership to the Enterprise

Eliminate Cost and Complexity from Your Storage Infrastructure

With over 100,000 Network Attached Solutions shipped, Quantum is the clear NAS market leader. With the Guardian 14000 server, that leadership is extended with features that make storage simpler, more affordable and more robust. Deploying the Guardian 14000 server is fast and easy, with no network or application downtime. Yet it delivers the enterprise-class security, management and performance today's heterogeneous environments demand. Most importantly, its low acquisition cost combined with high availability and minimal administration delivers low TCO.

Availability RAID 5, hot-swappable disk drives, redundant power supplies, cooling fans and Gigabit Ethernet ports, along with UPS support, maximize system and data availability. The included Server-to-Server (S2S) Synchronization software is an ideal way to further enhance availability.

Manageability Support for Microsoft's Active Directory Service (ADS), UNIX Network Information Service (NIS), Simple Network Management Protocol (SNMP), quotas and environmental monitoring tools ensure your Guardian 14000 server will be easy to manage from anywhere on the network with the browser-based user interface.

Interoperability The Guardian 14000 server provides support for mixed Windows, UNIX, Linux and Macintosh environments—plus HTTP and FTP support—to enable seamless sharing of information between network clients.

Security Guardian 14000 servers meet your security requirements with Kerberos authentication, Access Control Lists (ACLs), Secure Sockets Layer (SSL) and Secure Shell (SSH).

Data Protection

The Guardian 14000 server provides a wide array of features focused on backup, including Snapshot technology which allows a consistent, point-in-time copy of data without administrator intervention or time-consuming restores from tape. In addition, the Guardian 14000 server offers backup agent support, dual Ethernet connections for easy network backup configuration, PowerQuest DataKeeper software for automatic client backup and a local SCSI port for direct-attached tape devices.¹

Simplicity Best of all, the Quantum Guardian 14000 server is an appliance that is easy to use, easy to set up and easy to administer.

Guardian 14000 Key Features

- 1.44TB Capacity
- Twelve Hot-swappable Disk Drives
- Redundant (N + 1), Hot-swappable Power Supplies and Fans
- Redundant Gigabit Ethernet
- Microsoft Active Directory Service (ADS)
- Snapshot Technology
- UNIX Network Information Service (NIS)
- Included On-site Service/Support
- Server-to-Server (S2S) Synchronization Software



Guardian14000

Network Transport Protocols

TCP/IP
AppleTalk

Network Protocols

Microsoft Networks (CIFS/SMB)
UNIX (NFS v3)
Apple (AFP)
Internet (HTTP 1.1)
File Transport Protocol (FTP)

Network Client Types

Windows: 95, 98, NT 4.0, 2000, Me, XP
Macintosh: OS 8.x, 9.x, X v10.x
UNIX: Solaris 7, 8; HP-UX 11; AIX 4.3.3, SCO UnixWare 7.1.1;
SCO OpenServer v5.0.5 and most UNIX derivatives
Linux: Red Hat Linux 6.2, 7.2 and most Linux derivatives

Server Emulation

Windows 2000
Windows NT 4.0
AppleShare 6.0
NFS 3.0
DHCP

Network Security

Microsoft Active Directory Service (ADS)
Kerberos Authentication v5
Microsoft Dynamic DNS
Microsoft Lightweight Directory Access Protocol (LDAP v3) Client
Microsoft NT Domain Controller
UNIX Network Information Service (NIS)
File and Folder Access Control List (ACL) Security for Users and Groups
Secure Sockets Layer (SSL) v3 128-bit Encryption
Secure Shell (SSH)

System Management

Browser-based user interface for remote system administration
NASManager client platform-independent setup utility
SNMP (MIB II and Host Resource MIB)
User disk space quotas for Windows, Macintosh and UNIX/Linux
Group disk space quotas for UNIX/Linux
Environmental monitoring
E-mail notification alerts

Network Connection

Standard Dual 10/100/1000 Copper Gigabit Ethernet

Automatic IP Address Assignment

Supports DHCP for automatic assignment of IP address

Multiple File System Options

The Guardian 14000 server can be configured for enhanced performance or maximum file protection. Options include:

- **RAID 5 (disk striping with parity):** For each array, the size of one disk is reserved for parity checking. An array of 11 disks with a global hot spare yields 1.15TB usable capacity for the Guardian 14000 server.
- **RAID 1 (disk mirroring):** Second drive duplicates the first drive for maximum data protection (50% usable capacity).
- **RAID 0 (disk striping):** Large, virtual drive with data striped across all drives of the array. No loss in usable capacity.
- **Individual Independent Disks:** Twelve separate drives, each seen as a separate volume (JBOD).

Java Application Environment

Enables hosting of applications based on Java technology

Data Protection

Snapshots: Snapshot technology enables immediate or scheduled point-in-time image of the file system.

Network Backup: Compatible with VERITAS NetBackup/Backup Exec, CA BrightStor ARCserve, Legato NetWorker and Microsoft Backup Software for Windows 95/98/NT/2000/Me/XP. Compatible with Dantz Retrospect for Macintosh.

Backup Agents: Support for VERITAS NetBackup/Backup Exec, Legato NetWorker, and CA BrightStor ARCserve.

Client Backup: PowerQuest DataKeeper software (unlimited user license) included for backup of Windows clients.

Replication: Server-to-Server (S2S) Synchronization software copies the contents of one or more source Guardian servers to one or more destination Guardian servers.

UPS Support: APC PowerChute for graceful system shutdown.

Physical Specifications

Dimensions

Width 17.0 in (43.2 cm)
Depth 23.0 in (58.2 cm)
Height 5.0 in (12.7 cm), 3U
Weight 75.0 lbs (34.1 kg)

Agency Certifications

UL, cUL, CE, FCC Class A, C-Tick, Nemko, TuV

Power

Power Rating: 100-240 VAC, 50-60Hz, auto-sensing
Input Current: 5.0A (RMS) for 115VAC, 2.5A (RMS) for 230VAC
Power Consumption: 210W (steady state), 300W (maximum)
Heat Dissipation: 725 BTUs/hr

Operating Environment

50° F to 95° F (10° C to 35° C)
15% to 90% humidity (non-condensing)
Altitude: 0 ft to 8,000 ft (0m to 2,438m)

Non-operating Environment

14° F to 140° F (-10° C to 60° C)
5% to 95% humidity (non-condensing)
Vibration: 2G at 5-500Hz for 90 minutes
Altitude: 0 ft to 35,000 ft (0m to 10,668m)

North American Warranty

Three-year parts and labor limited warranty, plus free technical support
StorageCare next business day on-site service standard for the first year
Four-hour response and additional years of on-site support available

Models

Guardian 14000 1.44TB

For more information contact:

Unylogix Technologies Inc

Tel: (514) 253-5200

email: info@unylogix.com

web: www.unylogix.com

*Support for SCSI port to be available in future release. Specifications subject to change without notice.

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