

R1040i NAS/iSCSI RAID Storage System



- ▶ Feature Rich Storage Appliance
- ▶ Compact Storage Capacity In Just 1U
- ▶ Combined NAS and iSCSI Support
- ▶ Enterprise Class SATA II Disk Technology
- ▶ Dual Gbit Ethernet Interface
- ▶ Simple and Easy to Setup and Manage



Cost Effective iSCSI and NAS Data Storage

- ▶ **Secure Data** : With RAID 5 data protection your data is secure. RAID 5 keeps your data intact in the unlikely event of a disk failure.
- ▶ **Snapshot and Data Replication** : NAS units also feature built in snapshot to allow recovery of accidentally deleted files or to restore data after a virus attack, and data replication features to a second unit to produce another secured copy of your valuable data.
- ▶ **Reliable Storage Capacity** : Fitted with high performance RAID specific high reliability SATA II enterprise class SATA II disk drives designed for continuous 7x24 operation and with MTBFs of over 1 Million hours.
- ▶ **Feature Rich** : Comprehensive iSCSI and NAS features with easy setup and manageability support for Windows Active Directory
- ▶ **Cost Effective** : Low cost of ownership, and backed by Westeks excellent optional on-site support services.

Simple to setup, use and manage the R1040i iSCSI NAS system is ideal for general purpose data storage applications where either shared file based storage (NAS) or provisioning additional virtual storage capacity to existing servers over dedicated Gbit Ethernet links (SAN).

Hardware Features

- ▶ High Density Rugged 1U Rack Mount chassis
- ▶ 4 Removable S-ATA II Disk Drive Bays
- ▶ Temperature Controlled Fans to Minimise Noise
- ▶ Dual Gbit Ethernet LAN Interface
- ▶ High Reliability Power Supply
- ▶ RAID 5 Data Security



NAS and iSCSI Features

Web-based Graphical User Interface

The powerful and convenient Web-based GUI (Graphical User Interface) makes remote management of the NAS server a simple task using a web browser from anywhere in the network.

Remote Access Console Tools

Enables the management of the NAS by console tools from anywhere in the network. Advanced and critical administrator tasks like, removing and restoring volumes, checking and repairing the file system, are securely managed from the console. From the console tools, the NAS server can monitor the status of the network, installed drivers and hardware, memory usage and others.

Secured Administration Access

Access and configure by the web-based, password-protected GUI over Secured Administration Access (SSL)

Email Notification

Administrators are automatically alerted by Email, in the event of a technical issue with the NAS server.

Multiple Management Levels

Administrators can be assigned different rights: Full Access, Maintenance and Administration.

Windows Active Directory / Primary Domain Controller

Supports ADS (Active Directory Service), PDC (Primary Domain Controller), and LDAP.

External LDAP

Supports external LDAP servers to enable users to configure and administer multiple NAS systems from one single point.

DHCP Client

Dynamic Host Configuration Protocol (DHCP) support allows the process of assigning IP addresses in a network to be centrally managed and automated.

Supported Network Clients

Supports the file based protocols CIFS (Common Internet File System)/SMB (Server Message Block), NFS (Network File System), FTP (File Transfer Protocol), Secure FTP and Apple Talk enabling Windows, Linux, Unix and MacIntosh clients to share data on the same NAS server.

Antivirus

integrated Antivirus software tool for scanning shares on viruses at predefined points in time. The Virus Definition Database can be updated and is stored on the NAS device. Supports Online Scanning of files transferred via the Enterprise and FTP protocol.

iSCSI Functionality

IP Address Restriction Support for Target, CHAP User Management, and SCSI-3 Persistent Reservation Support

SNMP Management

Built in SNMP based monitoring system

S.M.A.R.T. Support

Includes S.M.A.R.T.(Self-Monitoring, Analysis and Reporting Technology) for detecting and reporting the status of the HDDs to anticipate failures. May be configured to send Email alerts to the system administrator in case of any problem with the hard drive units.

iSCSI Initiator

Has a built in iSCSI Initiator for easily expanding the storage capacity of the NAS system. New units and logical volumes can be added by connecting an iSCSI storage system to the NAS.

Local Backup on Dynamic Units

Local storage can be defined as a Dynamic Unit. On this Dynamic Unit you can backup the NAS server and store the backup separately. The Dynamic Unit can be removed without shutting down the server and acts like a normal tape drive.

Snapshot

Snapshot is an immediate point-in-time image of the logical volume (LV). The snapshot image can be used for both consistent and temporary backup, while users still have uninterrupted and complete access to the LV. Also, if a user accidentally deletes or incorrectly modifies a file, that file can be recovered from a previous snapshot image. Supports Multiple Snapshot with Scheduling to create snapshots at predefined points in time (e.g. Automatically every hour).

Multiple Logical Volume & Groups

Logical volume groups allow storage administrators to create logical storage pools that span multiple physical disk drives. With its support of multiple logical volume groups, the NAS makes it easier to meet the changing needs of users and applications while making the maximum use of available physical disk space.

Online Logical Volume Expansion

Online logical volume expansion allows administrators to change the size of storage volumes as needed without having to restart the application, recreate the volume, and back up and restore the data to the volume.

Support for Online Capacity Expansion

This feature supports a RAID controllers capability to increase the size of existing units without removing your data.



Data Capacity

The R1040i NAS/iSCSI RAID storage system supports 4 hot swap enterprise class S-ATA II disk drives including 500GB, 1TB and 2TB models. Each system is configured with disk drives, the RAID built to your chosen setting and fully tested prior to shipment. With 4 x 1TB disk drives fitted, the unit provides a raw capacity of 4TBytes which in RAID 5 configuration provides approximately 3TBytes useable capacity less formatting. The standard unit license supports a useable capacity up to 4TBytes and expansion upgrades to 8TB and 16TB are available as an option,

Specification

| | |
|-----------------------------|--|
| Hard Drive Interface | 4 x 300MBytes/Second S-ATA II Channels, Removable Carriers |
| Data Interface | Dual Gbit Ethernet (copper) RJ45 |
| RAID | Support for RAID 0, 1 and RAID 5 as Standard |
| NAS Engine | Embedded Firmware iSCSI and NAS Engine Dual Core Processor |
| Cooling | Six x 40mm Integrated Replaceable Redundant Fan Modules Air flow Front to Rear |
| System Monitor | Alarming on Fan Speeds and Temperature Disk and RAID Fault Monitoring and Remote Alerting Remote RAID Management GUI over Ethernet |
| Power Supply | 400W AC Power Supply AC Mains Power Cords Auto-ranging 90 to 264 Volts AC +/-10%, 47Hz to 63Hz Power Consumption 250W typical |
| Environmental | Operating +10 to +35 deg C Recommended 18 to 22 deg C Storage 0 to +55 deg C Humidity 10 to 85% Non-condensing |
| Physical | Weight ~12Kg (excluding hard drives) 1U 19" rack, 444mm Wide x 44.5mm High x 610mm Deep |
| CE Compliance | Conforms with EEC Directives on EMC & Safety Designed to Meet UL and FCC Requirements |

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