

RS2248Si Power SAN / NAS

- ▶ Very High Performance iSCSI SAN, NAS or Fibre Channel Storage
- ▶ Latest Enterprise Class SSD Technology
- ▶ Ideal For Busy Virtualised Environments
- ▶ Power Saving 2.5" Small Form Factor
- ▶ Simple and Easy to Manage
- ▶ Expandable up to 256 Disks
- ▶ Massive Real World Random IOPS performance



Very High Performance, High Capacity, SAN or NAS Storage

- ▶ **Ideal for Busy Virtualised Environments:** Designed to meet the demands of real world virtualised environments including VMware and Hyper V, providing virtualised storage capacity to multiple servers via low cost Ethernet or optical fibre based storage area networking.
- ▶ **Scalable Storage:** Provision storage capacity to multiple servers from one or more iSCSI storage systems or share file storage capacity as a NAS. Add multiple iSCSI storage systems to expand storage capacity or use the SAS expansion port to add extra disk shelves, simply and easily.
- ▶ **Easy to Set-up and Manage:** Enhanced user interface for simple efficient management of the iSCSI / NAS device. Administrators will find remotely management using the User Interface very quick and easy, enabling set-up of NAS and iSCSI Virtual Disks in just a few short steps.
- ▶ **Very High Performance:** Using latest SSD disk technology, dual controllers and high bandwidth backplane to double the performance in typical real world random I/O intensive virtualised environments running demanding applications. Capable of over 4GBytes per second read / write speeds when fully configured with interfaces.
- ▶ **High Availability:** Replicate data in real time to a second system, or both ways with the active - active option for even higher performance, with seamless manual or automatic failover providing continuous access to your data and true no single point of failure.
- ▶ **Data Recovery:** With Westek's Embedded Snapshot feature, automatic time stamped snapshots may be taken to enable rapid recovery from virus data corruption or accidental deletion right down to individual file level. Snapshots may also be mounted anywhere on your network to allow easy data backup.
- ▶ **Cost Effective :** Low cost of ownership, and backed by Westek's excellent on-site support services. Mix SAS, SSD and SATA disks to provide the optimum price/performance needed for different data types.

Hardware Features

- ▶ High Density 2U Rack Mount chassis with 24 Hot Swap SAS, SATA HDD or SSD Disk Drive Bays
- ▶ Hot Swap Redundant Power Supply and Cooling Fans
- ▶ High Performance 64 Bit 12Gbps Hardware RAID Controller
- ▶ Dual Gbit Ethernet LAN Interfaces as Standard (expandable), Options for 10Gbit Ethernet Interfaces
- ▶ Optional Dual Fibre Channel Support
- ▶ RAID 5 and RAID 6 Data Protection or RAID 10 for Ultimate Performance
- ▶ Hot Standby Disk Drive with Automatic Rebuild Support
- ▶ Dynamic RAID Volume Expansion and Data Roaming Support

Feature Rich Embedded Open-E DSS v7 iSCSI and NAS Functionality

VIRTUALIZATION ENVIRONMENTS

Compatible with VMware, Citrix Xen and MS Hyper-V, ideal for cloud storage and virtualization environments.

ADMINISTRATION

- Unlimited number of users
- Tips as a user guide
- Web-based, Multi Language GUI with Status Icons
- Secure Administration Access
- Tuning Tools
- Remote Access for Console
- Multiple Management Levels
- Automated Update and Rollback to Previous OS
- Task Manager
- CLI (API)
- Schedule Manager

NETWORK MANAGEMENT

- DHCP Client
- Multiple Network Interface Support
- Teaming / Bonding (including Adapter Fault Tolerance)
- 10 Gb Ethernet Support (Optional)
- Fibre Channel Support (Optional)
- Proxy Settings
- IPsec
- Jumbo Frames Support
- Static Routing Manager

STORAGE MANAGEMENT

- VMware Virtual NIC and Para-Virtual SCSI to run as Virtual Storage Server
- S.M.A.R.T. with E-Mail Notification
- Support for Logical Volumes over 16 TB
- Multiple Snapshots (multiple active snapshots per one LV at a time)
- Multiple Logical Volumes and Groups
- Online Logical Volume Expansion
- Support for Online Capacity Expansion
- Built-in SNMP based monitoring system
- Support for Automatic Session Reassignment (ASR) for FC and iSCSI protocols
- SSD Caching Support
- UPS and Network UPS Support

STORAGE MANAGEMENT / REPLICATION

- Synchronous Volume Replication over LAN
- Data (file) Replication over LAN and WAN

- Fast initial Volume Synchronization
- Volume Replication Tuning

MONITORING

- Hardware Monitoring
- SNMP v2, v3
- E-mail Notification
- Log Function

SPECIFIC NAS FUNCTIONALITY

- Windows Active Directory / Primary Domain Controller
- Support for Network Information Service (NIS)
- Internal and External LDAP
- ADS and NIS User / Group ID Synchronization
- File System with Journaling Support
- User and Group Quota Control
- Antivirus

SUPPORTED NETWORK CLIENTS

- Microsoft Windows, Linux, UNIX, Mac OS 8.0-10.5.8, X

SUPPORTED NETWORK FILE PROTOCOLS

- SMB/CIFS, FTP, Secure FTP, HTTP, Apple Talk, NFS v2, v3

SPECIFIC iSCSI FUNCTIONALITY

- Active-Active iSCSI Failover (Optional Feature Pack)
- Active-Passive Failover Support
- iSCSI Failover Configuration
- IP Address Restrictions for a Target
- CHAP User Management
- MPIO Support
- SCSI-3 Persistent Reservation Support
- Session Management

BACKUP UTILITY

- WORM Support (Write Once Read Many)
- NDMP v3.0 Support
- Backup-Agents (Backup Exec®, Retrospect®, BrightStor®)

OTHER

- Setup Wizard
- Extended save and restore settings
- Connection Status

Data Capacity

The RS2248Si Power iSCSI RAID storage system supports up to 24 hot swap 2.5" SAS, Enterprise SSD or SATA disk drives per 2U shelf unit including 900GB 10K rpm SAS and 147GB+ 15Krpm SAS disks. Each system is configured with disk drives, the RAID built to your chosen specification including any hot spares and fully tested prior to shipment. With 24 x 900GB disk drives fitted, the unit provides a raw capacity of 21.6TBytes, or approximately ~18TBytes useable in RAID 6. Contact Westek for the latest solid state disk options. Multiple physical RAIDs are also supported so that cost effective SATA disks and high performance SAS or SSD disks can be used in the same system and therefore optimise cost vs performance for different data storage needs.

Specification

Hard Drive Interface	24 x 12Gbits/Second SAS Channels, Hot Swap Carriers External SAS Expansion Ports for up to 256 Disks in Optional Expansion Chassis.
Data Interface	Dual Gbit Ethernet (copper) RJ45 as Standard, Expandable to 10 Optional Dual 10Gbit Copper or MM Optical Ethernet Interfaces Optional Dual Fibre Channel Interfaces Compliant with all Standard iSCSI Initiators including Windows, Linux, Novel, VMware, and Sun Solaris.
RAID Controller	Ultra High Performance 12Gb/S SAS 64 Bit H/W RAID Controllers Supports RAID 0, 1, 10(1E), 3, 5, 6, 30, 50, 60 MAID, Disk Roaming, Dynamic Expansion, Hot Spare and Auto Rebuild
iSCSI / NAS Engine	Multi-Core Xeon Processor Embedded NAS, iSCSI Target and Fibre Channel Functionality Block Level Snapshot for Instant Data Recovery Down to File Level
Cooling	Multiple 80mm 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 IPMI Remote Hardware Monitoring Over Ethernet
Power Supply	600W Redundant Load Sharing AC Power Supply Dual Power Cords Auto-ranging 100 to 240 Volts AC +/-10%, 47Hz to 63Hz Power Consumption ~350W, ~250W idle
Environmental	Operating 0°C to +45°C (with SSD option) Storage -20°C to +65°C Humidity 10 to 85% Non-condensing
Physical	Weight ~18Kg (including hard drives) 2U 19" rack, 444mm Wide x 88mm High x 660mm Deep
CE Compliance	Conforms with EEC Directives on EMC & Safety Designed to Meet UL and FCC Requirements

Westek Technology Ltd

Unit 1 Lancaster Business Park
Bowerhill
Melksham
Wiltshire
United Kingdom
SN12 6TT

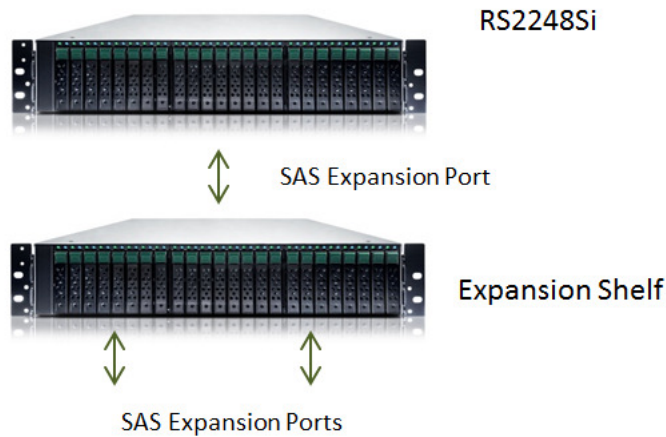
Tel: +44 (0)1225 790600
Fax: +44 (0)1225 702968
E-mail: sales@westekuk.com
Web site: www.westekuk.com

Specifications subject to change without notice



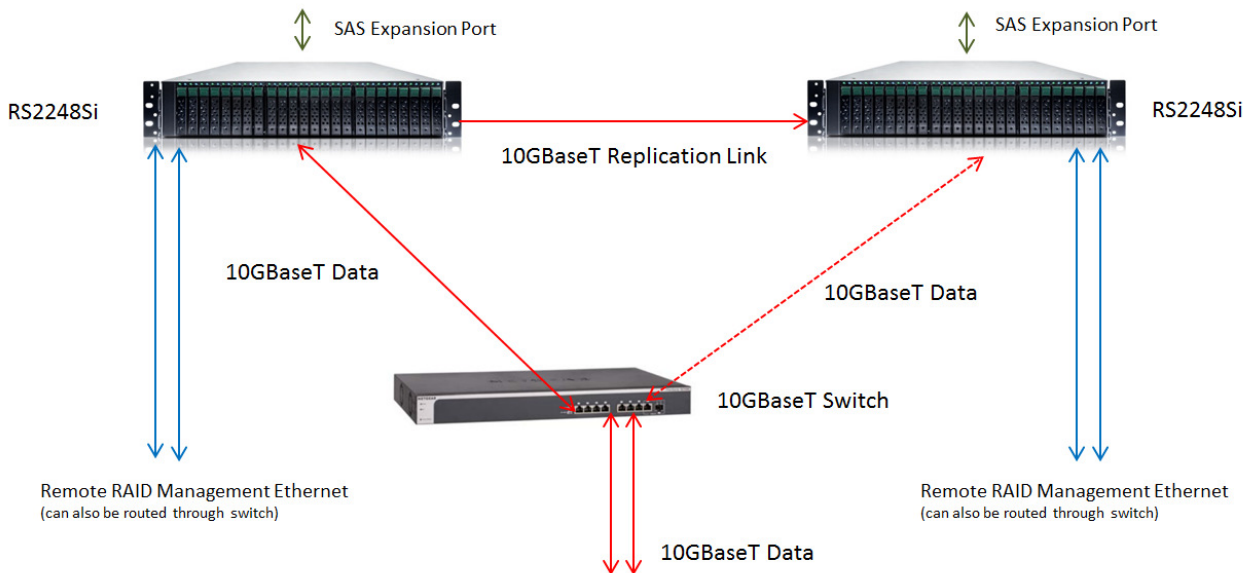
SAS Expansion

RS2248Si unit may be expanded through its SAS expansion port to add additional disk shelves using the RS2248EX 24 bay expansion chassis. Up to 7 expansion chassis may be added to the main unit.



Active—Active Replication Option

Example shown with 10Gbit Interface options also Included. Real time block level replication between two active unit with the optional active-active feature pack. Virtually doubles performance and maintains a duplicate copy of your data with rapid failover In the event of a problem.



Westek Technology Ltd

Unit 1 Lancaster Business Park
Bowerhill
Melksham
Wiltshire
United Kingdom
SN12 6TT

Tel: +44 (0)1225 790600
Fax: +44 (0)1225 702968
E-mail: sales@westekuk.com
Web site: www.westekuk.com

Specifications subject to change without notice

