

# R8504Si Power iSCSI / NAS

- ▶ High Performance iSCSI and NAS Storage
- ▶ Massive 50TB+ Raw Storage Capacity
- ▶ Dual 64 Bit Hardware RAID Engines
- ▶ Enterprise Class Disk Technology
- ▶ 6 GBit Ethernet Interfaces as Standard
- ▶ Snapshot and Replication Options
- ▶ RAID 6 Support For Ultimate Data Security



## *High Performance, High Capacity, iSCSI and NAS Storage*

- ▶ **Scaleable Storage** – Provision storage capacity to multiple servers from one or more iSCSI target storage system. Add multiple iSCSI storage systems to expand storage capacity, simply and easily.
- ▶ **Simple Connectivity** – iSCSI uses standard Gbit Ethernet or 10Gbit Ethernet via Optical cables to connect to your host servers (Initiators). Up to 512 servers can be provisioned with storage capacity from a single R8504Si storage system via suitable Gbit Ethernet switches. With the optional dual 10Gbit interfaces these would connect to the switch, and then low cost Gbit connections would be used to the servers.
- ▶ **High Performance**—Westeks R8504Si POWER iSCSI system provides phenomenal performance with up to 2GByte per second sustained read / write capability when fully configured, and using the dual 10Gbit Ethernet ports (optional), far exceeding the performance of traditional fibre channel SANs.
- ▶ **Data Replication and Seamless Failover** – With Westeks block level data replication option, two Power iSCSI systems provide ultimate data security by replicating data in real time to a second unit located either locally or remotely even over a low bandwidth link. Should the primary unit fail, the second unit automatically takes over ensuring seamless access to your data and maintaining data integrity, thus providing an instant DR solution with no down time.
- ▶ **Data Recovery** – With Westeks Embedded Snapshot option, 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.

### Hardware Features

- ▶ High Density Rugged 8U Rack Mount Chassis
- ▶ 50 Hot Swap Drive Bays : 48 Front Mounted, 2 Rear Mounted
- ▶ 1500W Multi Module Redundant Hot Swap Power Supply
- ▶ Redundant Hot Swap Cooling Fans
- ▶ Dual High Performance 64 Bit Hardware RAID Controllers
- ▶ 6 x 1Gbit Ethernet Interfaces, Options for 10Gbit Optical or CX4 Copper
- ▶ Quad Core 64 Bit Processor iSCSI Engine
- ▶ RAID 5 and Ultimate RAID 6 Data Security
- ▶ Hot Standby Disk Drive Support
- ▶ Automatic Rebuild Support and Dynamic RAID and Volume Expansion

## Data Capacity

The R8504Si Power iSCSI or NAS RAID storage system supports up to 50 hot swap SAS or SATA II enterprise class disk drives including 250GB, 500GB, 750GB and 1TB SATAII and 146GB, 300GB and 450GB SAS models. 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 48 x 1TB disk drives fitted, the unit provides a raw capacity of 48TBytes which in the recommended RAID 6 configuration provides ~44TBytes useable capacity less formatting.

## Specification

Hard Drive Interface	50 x 3Gbits / Second S-ATA II or 48 x SAS, Hot Swap Carriers External SAS Expansion Port for up to 128 Disks in Optional Expansion Chassis.
Data Interface	Six 1Gbit Ethernet Interfaces, Expandable to 14 Optional Dual 10Gbit CX4 Copper or MM Optical Ethernet Interfaces Compliant with all Standard iSCSI Initiators Including Windows, Linux, Novel VMWare, and Sun Solaris.
RAID Engine	Dual Ultra High Performance 64 Bit H/W RAID Controllers Up to 2GBytes/Second Sustained Read / Write Up to 200,000 I/O per Second Performance Supports RAID 0, 1, 10(1E), 3, 5, 6, 30, 50, 60, Single Disk or JBOD MAID, Disk Roaming, Dynamic Expansion, Hot Spare and Auto Rebuild
iSCSI / NAS Engine	Dual 64 Bit Quad Core Xeon Processors With 8GB DDR2 RAM NAS Fully Compatible with Windows Active Directory
Cooling	Eight Integrated Hot Swap Redundant Fan Modules 80 x 80mm each Fan. Air Flow Front to Rear
System Monitor	Alarming on Fan Speeds and Temperature Disk and RAID Fault Monitoring and Remote Alerting
Power Supply	1500W Redundant Load Sharing (3+1) AC Power Supply Four Power Cords Auto-ranging 96 to 264 Volts AC +/-10%, 47Hz to 63Hz Power Consumption ~950W ~3200BTU/Hour typical on load
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 ~50Kg (excluding hard drives) 8U 19" rack, 446mm Wide x 356mm High x 736mm Deep
CE Compliance	Conforms with EEC Directives on EMC & Safety Designed to meet UL and FCC requirements

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Specifications subject to change without notice

