

# R3168Si Power iSCSI / NAS

- ▶ High Performance iSCSI or NAS Storage
- ▶ 32TB+ Raw Storage Capacity
- ▶ Integrated Hardware RAID Engine
- ▶ Enterprise Class Disk Technology
- ▶ Ten Gbit Ethernet Interfaces as Standard
- ▶ Simple and Easy to Manage
- ▶ Ultimate RAID 6 Data Security



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

- ▶ **Scalable Storage:** Provision storage capacity to multiple servers from one or more iSCSI storage systems. Add multiple iSCSI storage systems to expand storage capacity, simply and easily using standard Gbit Ethernet or 10Gbit Ethernet via Optical or Copper cables to connect to your host servers.
- ▶ **Windows Storage Server:** All the benefits of Microsoft's developments in Storage Server, ensuring close integration with your Windows (and most other) server networks when used as a NAS, with easy to use familiar API's. Ideal for use in mixed and native mode Active Directory environments.
- ▶ **Easy to Set-up and Manage:** Enhanced Web based user interface for simple efficient management of the iSCSI / NAS device. Administrators will find remotely managing using the Windows Storage Servers Web User Interface very quick and easy, enabling set-up of NAS and iSCSI Virtual Disks in just a few short steps.
- ▶ **High Performance:** Capable of up to 1.3GBytes per second sustained read / write capability when fully configured, and using the dual 10Gbit Ethernet ports (optional), exceeding the performance of traditional fibre channel SANs.
- ▶ **Data Replication and Seamless Failover:** With Westek's 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 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 :** No user licenses fees, low cost of ownership, and backed by Westek's excellent optional on-site support services.

### Hardware Features

- ▶ High Density 3U Rack Mount chassis with 16 Hot Swap SAS or SATA Disk Drive Bays
- ▶ Redundant Hot Swap Power and Cooling Fans
- ▶ High Performance 64 Bit Hardware RAID Controller
- ▶ Ten Gbit LAN Interfaces, expandable and with options for multiple 10Gbit Ethernet Interfaces
- ▶ Dual Quad Core 64 Bit Processor iSCSI Engine
- ▶ RAID 5 and RAID 6 Data Protection
- ▶ Hot Standby Disk Drive Support
- ▶ Automatic Rebuild Support and Dynamic RAID Volume Expansion

## Data Capacity

The R3168Si Power iSCSI or NAS RAID storage system supports up to 16 hot swap SAS or SATA II disk drives including 500GB, 1TB and 2TB 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 16 x 2TB disk drives fitted, the unit provides a raw capacity of 32TBytes which in the recommended RAID 6 configuration provides 28TBytes useable less formatting.

## Specification

Hard Drive Interface	16 x 3Gbits/Second SAS or S-ATA II Channels, Hot Swap Carriers External SAS Expansion Port for up to 128 Disks in Optional Expansion Chassis.
Data Interface	Ten Gbit Ethernet (copper) RJ45 as Standard (Expandable to 14) Optional Dual 10Gbit Copper or MM Optical Ethernet Interfaces Compliant with all Standard iSCSI Initiators including Windows, Linux, Novel, VMware, and Sun Solaris.
RAID Controller	Ultra High Performance 16 Channel 64 Bit H/W RAID Controller Up to 1.3GBytes/Second Sustained Read / Write Up to 110,000 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 RAM NAS Fully Compatible with Windows Active Directory Embedded Windows Storage Server and iSCSI Target
Cooling	Three 120mm Integrated Replaceable Redundant Fan Modules 120CFM each Fan. Front Mounted (Blowers). Air Flow Front to Rear
System Monitor	Alarming on Fan Speeds and Temperature Disk and RAID Fault Monitoring and Remote Alerting
Power Supply	650W Redundant Load Sharing (2+1) AC Power Supply Triple Power Cords Auto-ranging 100 to 240 Volts AC +/-10%, 47Hz to 63Hz Power Consumption 450W typical
Environmental	Operating +10 to +35 deg C 18 to 22 deg C recommended Storage 0 to +55 deg C Humidity 10 to 85% Non-condensing
Physical	Weight 16Kg (excluding hard drives) 3U 19" rack, 444mm Wide x 133mm High x 711mm 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](mailto:sales@westekuk.com)  
Web site: [www.westekuk.com](http://www.westekuk.com)

Specifications subject to change without notice

