

Unified Storage Router 10G/1G iSCSI-to-SAS Router

Benefits

- Consolidate storage by creating larger SANs extending over longer distances (SAN-over-WAN)
- Delivers the benefits of SAN storage at a significant discount to SAS storage
- 10G Ethernet access to SAS stor-
- Connectivity to tape based storage systems
- Certified with Symantec BackupExec and CommVault Simpana for Quantum tape libraries

Features

- Hot-swappable dual router blades with multi-path options for High Availability (HA) and load balancing
- Superior performance: 1130 MBps with 6G SAS ports 120 MBps per tape drive
- Supports upto 8 SAS tape drive units
- Power efficient: Uses < 200W
- Supports LUN sizes > 2TB
- Attach servers to SAS storage with any major iSCSI Initiator
- Supports virtualization
- Sophisticated web-based GUI & CLI management
- Easy-to-use GUI for quick installation

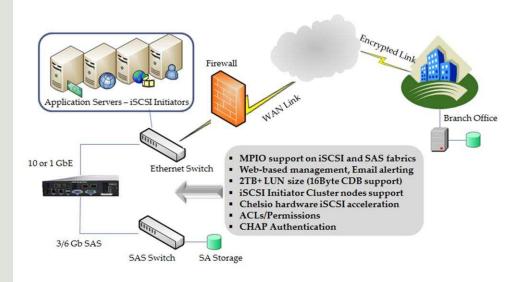


Cost-effective solution for high-performance SAS utilization

N MID-RANGE and enterprise businesses, rapid growth increases the cost of operations and spreads critical business data and resources across multiple systems and applications. Chelsio's 10G iSCSI-to-SAS router extends the SAS storage investment with the ability to integrate low-cost Ethernet-connected servers into the SAN, without requiring additional storage arrays or management costs.

SAS storage is able to leverage IP networks and extend SAN advantages into smaller departments and remote locations where budget constraints would not allow for a SAS storage. This enables storage consolidation by creating larger SANs extending over longer distances providing access to storage that can be scaled/re-allocated when needed.

Instead of potentially underutilized, direct-attached, server-dedicated storage, a multi-protocol SAN provides access to storage that is allocated when needed, improving asset utilization and enabling new applications.



Chelsio's Unified Storage Router offers a high-performance iSCSI-to-SAS mapping, providing a solution for building a modular multi-protocol SAN design with increased scalability, stability, and ROI on storage infrastructure.

Specifications

iSCSI Initiator Client OS support

- Microsoft Windows 2003, 2008/R2
- RedHat Enterprise Linux 4, 5, 6
- SuSE Linux Enterprise Server 9,10, 11
- Sun Solaris 10
- VMware ESX 4, 5

Protocol support

- iSCSI HBA to SAS Storage Array Gateway
- MPIO, ACLs/LUN masking
- CHAP authentication
- VLAN
- HA failover

Configuration and management

- Web-based & CLI
- Configuration Wizard (automatic configuration service)
- Performance monitoring and profiling
- Online upgrade of node software
- High availability and multiple redundancy options
- Multiple mapping methods of iSCSI to SAS SANs to provide flexibility

Hardware Specifications

Ports

- Two 3/6Gb SAS ports with fabric/loop/direct-attach modes
- Two 10GbE ports with hardware iSCSI acceleration
- Two 1GbE ports
- Management port: 100M/1GbE
- Two USB 2.0 ports

Performance

- iSCSI: 1130MBps max with 6Gb SAS, 750MBps max with 3Gb SAS
- SAS tape drives: 120MBps max
- IOps: 100K per port
- Server connections: Up to 32K
- iSCSI connections: Up to 16K
- iSCSI Digest at line rate
- 1500B frames at line rate

Physical

- Dimensions: 1.75" x 8.25" x 18.5" or 44mm x 210mm x 470mm
- Full rack-width 1U chassis for two units available
- Horizontal or vertical mountable

System cooling

- Three 40x28mm fans
- Air flow: front-to-back
- Smart Fan capable

Operating Environment

- Operating temperature range:
 10 to 35 °C or 50 to 95 °F
- Non-operating temperature range: -40 to 70 °C or -40 to -158 °F
- Humidity range:8 to 90% non-condensing
- Non-operating humidity range:5 to 95% non-condensing
- Power consumption: < 200W</p>

Ordering info

USR1100-ESAS-FB Unified Storage Router 1100 Single Blade with

2 x 6G SAS + 2 x 10GbE + 2 x 1GbE.

USR1100-ESAS-FB-Gb Unified Storage Router 1100 Single Blade with

2 x 6G SAS + 2 x 1GbE.

USR1100-RK Enclosure and Rail Kit for 1U USR.



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