Potomac series

Datasheet: ESAS2800 iSCSI to Serial Attached SCSI Bridge
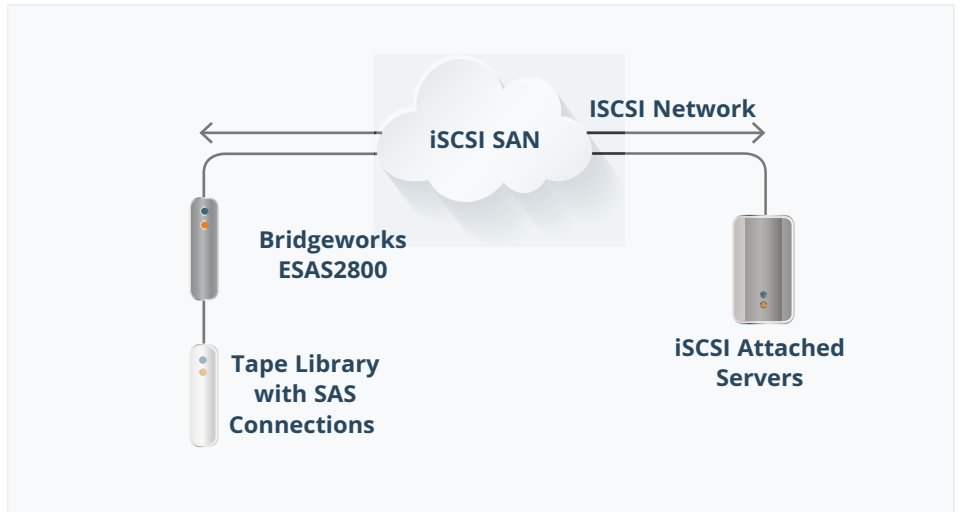
Overview

The ESAS2800 iSCSI to SAS Bridge is a high performance protocol bridge for connecting SAS enabled peripherals such as Disks, Tape Drives, Tape Libraries and Optical devices to IPStorage Networks using the iSCSI protocol.

The ESAS2800 is housed in an industry standard 1U 19" rack mount enclosure with integral power supplies and cooling. Connectivity to the IP Network is via 2 autosensing 1Gb Ethernet ports that can detect the network connection speed and to the SAS peripheral devices via the 8 3Gb SAS ports.

Managing and installing the ESAS2800 could not be easier with its inbuilt intuitive GUI that is easy to use and provides the user with on screen help where necessary.

Product Features

- 2 × 1Gb Ethernet Ports
- 8 × 3Gb SAS Ports
- Up to 16,000 Initiators
- Non-Blocking Cache
- Low Power Design
- Error Recovery Level 2
- iSNS
- CHAP
- Jumbo Packet Support
- Multipath I/O
- GUI Interface

Key Advantages

Performance The ESAS2800 has many unique features to maximise performance and ensure your data is transferred to the peripheral devices in the shortest possible time. With its load balancing MPIO* enabled Ethernet ports combined with its unique non-blocking data cache module, the ESAS2800 provides up to 200MB/s sustained throughput.

Recoverability Ensuring that your data reaches its final destination is important these days with tight backup windows. With Error Recovery Level 2 support, the ESAS2800 can continue to receive data even if one of the Ethernet connections is disconnected.

Ease of Use With every increasing pressure on IT staff, there is less time to spend on learning and managing new products and therefore, it is critical that new products are intuitive and easy to use. Bridgeworks works closely with its customers to ensure this is always the case.
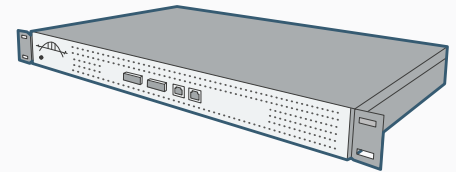
Environmental The ESAS2800 uses the latest power supply technologies with typical efficiencies of 95%, which minimise electrical power consumption and heat output.

Pedigree When you purchase a Bridgeworks' product, you are backed up by over 25 years of experience in designing protocol bridges for the storage industry.

*MPIO – Multipath Input-Output

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Key Specifications*

Ethernet Ports

CConnection	2 × 1Gbe RJ45
Speed	Auto-sensing 10/100/1000Mb/s
Error Recovery	ERL0, ERL1, ERL2
Maximum Packet Size	16MB
Maximum Initiators	16,000
Standards	IPv4, iSCSI, iSNS, CHAP, DHCP

SAS Ports

Connectivity	8 × 3Gb, 2 × 4 way Mini-SAS

Visual Indicators

LED indicators for	Power
	Network Activity
	Link Present
	Network
	Speed
	SAS Activity
	SAS Link

Physical

Enclosure Form Factor	19" 1U Rack Mount
Dimensions	L 179 mm, W 437mm, H 44 mm
Operational Temperature	0 to 40°C
Non-Operational Temperature	−20° to 60°
Power Consumption	110–230Vac, 25-Watts approx

*Bridgeworks reserves the right to change the specifications without notice