Potomac series

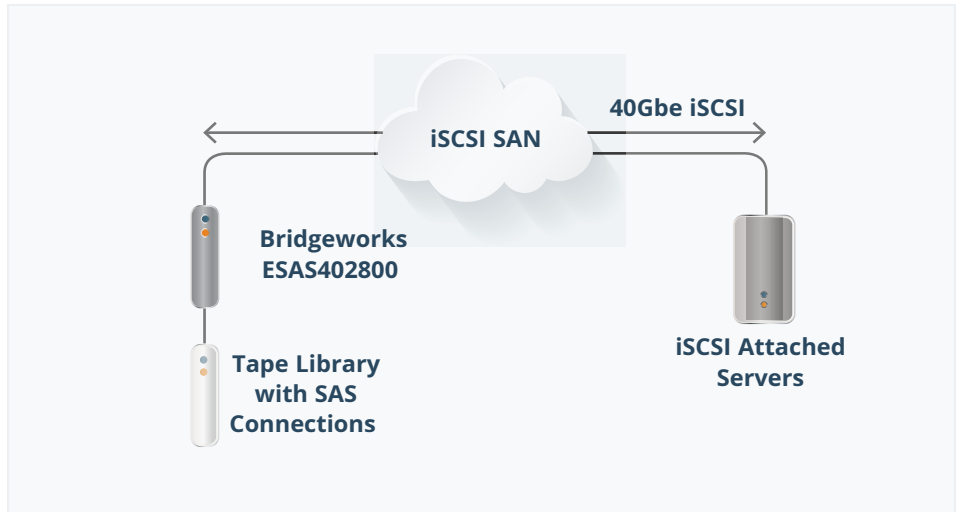## Datasheet: ESAS402800 iSCSI to SAS

Overview

The ESAS402800 is a high performance 40Gb iSCSI to SAS protocol bridge that provides a seamless connection between SAS enabled peripherals such as Disks, Tape Drives, Tape Libraries and Optical devices and IPStorage Networks using the iSCSI protocol.

The ESA40S2800 is based upon Bridgeworks' Next Generation Bridging technology and is housed in an industry standard 1U 19" rack mount enclosure Connectivity to the IP SAN Network is via two QSFP whilst the SAS peripherals are connected via eight 6Gb channels spread across two mini SAS ports.

Managing and installing the ESAS402800 could not be easier with its inbuilt intuitive GUI that is easy to use and provides the user with on screen help should they require it.

Product Features

- 2 × 40Gb Ethernet ports
- 8 × 6Gb SAS ports (8808)
- 16,000 Initiators
- Non-Blocking Write Cache
- Read Ahead Cache
- ISNS
- CHAP
- Jumbo Packets
- Multipath I/O
- GUI interface
- ERL0, 1 and 2
- DHCP

Key Advantages

Performance The ESAS402800 has many patented features that 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 and read ahead technology, the ESAS402800 provides up to 3500MB/s throughput.

Recoverability Ensuring that your data reaches its final destination is important these days with tight backup windows. With Error Recovery Level 2 (ERL) support, the ESAS402800 can continue to receive data even if one of the Ethernet connections is lost or 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 each and every new product is intuitive and easy to use. Bridgeworks works closely with its customers to ensure this is always the case.

Environmental The ESAS402800 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 30 years of experience in designing protocol bridges for the storage industry.

Key Specifications*

Ethernet Ports

Connection	2 × QSFP
Speed	40Gb/s
Error Recovery	ERL0, ERL1, ERL2
Maximum Packet Size	16MB
Maximum Initiators	16,000
Standards	IPv4, iSCSI, iSNS, CHAP, DHCP

SAS Ports

Connectivity	8 × 6Gb, 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 610 mm, W 437mm, H 44 mm
Operational Temperature	0 to 40°C
Non-Operational Temperature	−20° to 60°
Power Consumption	110-230Vac, 200-Watts approx

*Bridgeworks reserves the right to change the specifications without notice