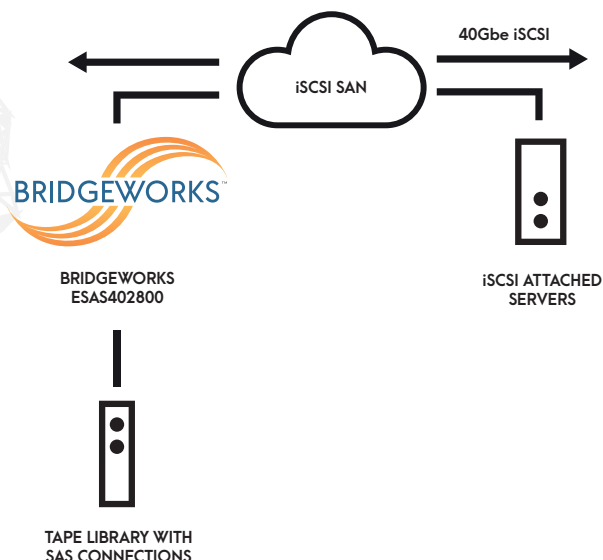# POTOMAC SERIES

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 ESAS40S2800 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.

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 nearly 40 years of experience in designing protocol bridges for the storage industry.

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

POTOMAC SERIES

Datasheet: ESAS402800 iSCSI to SAS

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 these specification without notification