

XJ 1100 SAS JBOD Series

Introducing Xtore's High-Performance, High-Density, Scalable SAS-SAS/SATA Disk Expansion Enclosure



High Performance

The maximum performance per host connection is 1,200MB/sec which is higher than a single 4G or even 10G Fibre Channel connection. The performance of the bus is achieved by combination of four SAS channels with each supporting 3Gbps full duplex speed. Together with a high-speed SAS HBA or SAS RAID controller card on the server, the storage enclosure provides not only capacity but unprecedented performance for applications like High Definition Video Editing or high speed transaction applications.

High Storage Density Design and Offerings

For cost and capacity consideration, Xtore provides both 3U-16 and 2U-12 solutions, employing 3.5" drives. For applications where power consumption, thermal or environmental elements, and space limitations are considerations, Xtore provides 1U-10 and 2U-24 enclosures using 2.5" drives. All of Xtore's SAS Disk Enclosures are designed with dual host and cascade paths for further capacity expansion.

Scalability

Xtore enclosures support a scalable solution to manage growing storage needs via efficient expansion. Each SAS I/O Module supports a downlink cascade path with four SAS channels maintaining 1,200MB/s speed.

Easy Maintenance and Management

All of Xtore's SAS Disk Enclosures are designed in a modular base, complete with redundant and hot-swap I/O modules, fans, and power supplies for easy maintenance. The systems support in-band SES (SCSI Enclosure Service) with embedded SEP for error and status reporting. Each drive has Activity and Failure LEDs to indicate the drive status. Firmware can be upgraded through in-band SAS ports or serial port.

Versatile Cost/ Performance Options

For highest performance and reliability, systems can be configured with dual I/O modules and highly reliable SAS drives providing a 1,200 x 2 MB/sec speed and dual-port failover capability. An application for a clustering transaction server can apply the above scheme with the best throughput and reliability. Customers looking for performance and not requiring redundancy can employ a single I/O module with SAS drives without sacrificing performance nor reliability. Applications such as drive Video Editing can use pure SAS interface for on-line storage usage. For the lowest \$/GB, customers can apply a single I/O module system installing large capacity SATA drives to achieve the best performance/cost investment. It is the best and most cost-effective near-line or backup storage available.

Features Overview

- High performance, redundancy, and connectivity SAS interface supports
- High performance/availability SAS drives and high capacity/lower cost SATA drives in a single system, the flexibility to reduce total cost of ownership (true mix-and-match of drives in a single enclosure)
- Six 4-port connectors for host or expansion with automatic port speed detection and negotiation
- Scalable with expansion ports to couple with business growth
- Environment monitoring with SEP/SES Support
- Redundant and hot swappable IO modules, drives, fans and power supplies for high availability and easy maintenance
- Multiple Form Factor 1U, 2U, and 3U with both SFF 2.5" and 3.5" drive offerings



2U 24-bay with 2.5" drives



2U 12-bay with 3.5" drives

For more information visit our website
www.xtore.com



XJ 1100 SAS JBOD Series



XJ-SAXX-110R-5



XJ-SAXX-212R-5



XJ-SAXX-224R-5



XJ-SAXX-316R-5

Features	Description	XJ-SA13-110R-5	XJ-SA26-110R-5	XJ-SA13-224R-5	XJ-SA26-224R-5	XJ-SA13-212R-5	XJ-SA26-212R-5	XJ-SA12-316R-5	XJ-SA24-316R-5	
GENERAL										
Number of IO Modules		Single	Dual	Single	Dual	Single	Dual	Single	Dual	
Host Interface per IO Module	Mini SAS 4x connector	Dual		Dual		Dual		Single		
Expansion Interface per IO Module	Mini SAS 4x connector	Single		Single		Single		Single (or used as Host)		
Transfer speed	1,200MB/s per connector	yes		yes		yes		yes		
DRIVES SUPPORTED										
Drive Interface	3Gb dual ported SAS, 1.5/3.0Gb single ported SATA	yes		yes		yes		yes		
Dual Ported SATA Support	w/optional interposer boards	no		no		yes		yes		
Drive RPM		Up to 15,000		Up to 15,000		Up to 15,000		Up to 15,000		
Form Factor		SFF 2.5"		SFF 2.5"		3.5", 1" height		3.5", 1" height		
ADMINISTRATION / MANAGEMENT										
Admin/Firmware Upgrade	In-band & Out-of-band	Windows® GUI, Serial								
LED Indicators, Audible Alarm		yes								
HOT-SWAP & REDUNDANCY										
I/O Module	Redundant	no	yes	no	yes	no	yes	no	yes	
Disk Drive	hot-swap	10-bay		24-bay		12-bay		16-bay		
Cooling		2		Redundant 2 + 1		Redundant 2 + 1		Redundant 2 + 1		
Power Supply	Redundant 1 + 1	250W		350W		460W		460W		
Power Entry	Dual AC Inlet	yes		yes		yes		yes		
ELECTRICAL & ENVIRONMENTAL										
Universal A/C Input		100-240V AC full range								
Operating Environment		Temperature 5°C to 35°C, Relative humidity 20% to 80%								
Non-Operating Environment		Temperature -20°C to 60°C, Relative humidity 10% to 90%								
PHYSICAL DIMENSIONS										
Height		44mm		87mm		87mm		130mm		
Width		440mm		440mm		440mm		440mm		
Depth		464mm		423mm		548mm		570mm		
Weight w/o Disks		14kg		16kg		18.5kg		19.5kg		
AGENCY										
Emissions & Safety		FCC, CE, UL, CB								
Quality		ISO9001								

Contact Us:

www.xtore.com

Xtore USA:
Phone: +1-626-581-7015
Email: sales@xtore.com

Xtore Taiwan:
Phone: +886-3-313-1618
Email: sales@xtore.com.tw

Xtore Japan:
Phone: +81-43-202-8380
Email: jsales@xtore.com.jp

Xtore Europe:
Phone: +31-30-6386789
Email: sales@xtore.nl

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