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# XJ 2000 SAS/SATA JBOD Series

## Ultra-Density 4U 48-drive SAS/SATA JBOD

XJ-SA24-448R is designed to provide an ultra-density 48-drive enclosure in a 4U form factor and at per/disk price points substantially better than standard single density enclosures. It supports up to 24TB of storage capacity at 48Gbps host bandwidth across dual hot-swappable expander modules.

XJ-SA24-448R supports SAS and SATA drive tiers. The dual density two-drive carrier provides front access hot swap insertion and removal of the disk drive and allows a compact high-density footprint. It is an ideal platform for SAN and NAS applications that require high density and high performance online storage and network infrastructure support.

### Features Overview

#### ▲ 48 Drive High Density Enclosure in 4U

- Universal backplane supports SAS/ SATA
- Front Accessible Hot Swap Carriers
- Dual Channel SAS
- Single channel SATA
- Optional Dual Channel SATA

#### ▲ 48 Gb Host Bandwidth Across Dual Expanders

- Flexible Expander Connectivity
- 2x wide SAS ports (12Gbit/sec) channels OR
- 1x wide SAS (12Gbit/sec) + 4x single (3Gbit/sec) OR
- 8x single SAS (3Gbit/sec) channels

#### ▲ Cool By Design™

- 90% Efficient Single Rail PSU
- Point of Load Power Generation
- Software Controlled Regulation of Variable Speed Fans
- Low Heat Dissipation/ BTU Rating

#### ▲ Cableless Design for Maximum Reliability

- ▲ Compact 24" Depth
- ▲ High Quality ISO 9000 & ROHS compliant Design
- ▲ Ethernet & Serial Management Ports
- ▲ Tri-Color LED Indicators

#### ▲ Hot Swap Integrated Power Supplies and Fans

- N+1 Single Rail High Efficiency PSU
- Low Noise Auto-regulating Fans
- Integrated I2C monitor of Voltage, Current, Temperature, Fan Speed and AC-Fail
- I2C Monitor is independent of AC Supply



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Front access 48 hard drives in 4U form factor



Rear access expander modules and power supply modules



Dual-Drive Carrier with LEDs indicators for power, activity and failure



Expander with dual mini SAS 4x, Ethernet port and Serial Console per module



Cableless & hot-swappable fan & power supply module

Features	Description	XJ-SA12-448R-x *	XJ-SA24-448R-x
<b>GENERAL</b>			
Number of IO Modules		Single	Dual
Host Interface per IO Module	Mini SAS 4x connector	Single	
Expansion Interface per IO Module	Mini SAS 4x connector	Single (or used as Host)	
Transfer speed	1,200MB/s per connector	yes	
<b>DRIVES</b>			
Drive Interface	3Gb dual ported SAS, 1.5/3.0Gb SATA	yes	
Dual Ported SATA Support	w/optional interposer boards	yes	
Drive RPM		Up to 15,000	
Form Factor		3.5", 1" height	
<b>ADMINISTRATION / MANAGEMENT</b>			
Admin/Firmware Upgrade	In-band & Out-of-band	Web interface, Serial & Ethernet port	
LED Indicator		yes	
<b>HOT-SWAP &amp; REDUNDANCY</b>			
I/O Module	Failover	yes	
Disk Drive	Hot-swap	24-bay (48 drives)	
Cooling	Hot-swap, Redundant	3 + 1 (integrated w/in Power)	
Power Supplies	Redundant	3 + 1, 500W	
Power Entry	Individual AC Inlet	yes	
<b>ELECTRICAL &amp; ENVIRONMENTAL</b>			
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%	
<b>PHYSICAL DIMENSIONS</b>			
Height		190mm	
Width		483mm	
Depth		610mm	
Weight w/o Disks		35kg	
<b>AGENCY</b>			
Emissions & Safety		FCC, CE, UL, CR	
Quality		ISO9001	

\* x: S or B for silver or black color

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