

Features

High performance, redundancy, and connectivity SAS interface supports

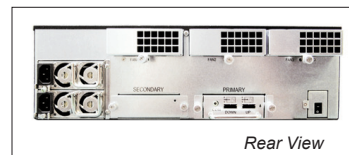
High performance/availability SAS drives and high capacity/ lower cost SATA drives in a single system, the flexibility to reduce total cost of ownership (true mix-and-match of drives in a single enclosure)

Up to four 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 I/O modules, drives, fans and power supplies for high availability and easy maintenance



Rear View

Dimensions (W x D x H)
(with chassis ears/protrusions)

mm : 482.6 x 570 x 133.4
inches : 19 x 22.5 x 5.25

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, AIC provides 3U-16 enclosure using 3.5" drives. All of AIC's SAS Disk Enclosures are designed with dual host and cascade paths for further capacity expansion.

Scalability

AIC 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 AIC's SAS Disk Enclosures are designed in a modular base, completed 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 high reliability SAS drives by 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. On the other hand, customers looking for performance but not requiring redundancy can deploy the single I/O module system with SAS drives without sacrificing performance and reliability. Applications such as Video Editing can use pure SAS interface for on-line storage usage. For the lowest \$/GB consideration, customers can apply the single I/O module system with 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.

SPECIFICATIONS

GENERAL

Number of IO Modules	Single/Dual
Host Interface per IO Module	Single Mini SAS 4x connector
Expansion Interface per IO Module	Single (or used as Host) Mini SAS 4x connector
Transfer Speed	1,200MB/s per connector

DRIVES SUPPORTED

Drive Interface	3Gb dual ported SAS, 1.5/3.0Gb single ported SATA
Dual Ported SATA Support	w/optional interposer boards
Drive RPM	Up to 15,000
Form Factor	3.5", 1" height

ADMINISTRATION / MANAGEMENT

Admin/Firmware Upgrade	In-band & Out-of-band Windows® GUI, Serial port
LED Indicators, Audible Alarm	Yes

HOT-SWAP & REDUNDANCY

I/O Module	Redundant for dual I/O module
Disk Drive	Hot-swap 16-bay
Cooling	Hot-swap, Redundant 2+1
Power Supplies	460W 1+1 hot-swap redundant PFC
Power Entry	Dual AC Inlet

ELECTRICAL & ENVIRONMENTAL

Universal A/C Input	100~240V AC full range
Operating Environment	Temperature 0°C to 35°C Relative humidity 20% to 80%
Non-operating Environment	Temperature -20°C to 60°C Relative humidity 10% to 90%

PHYSICAL SPECIFICATION

Gross Weight	w/ PSU; w/o Rail & Disks	27.6kgs / 60.7lbs
Packaging Dimension (W x D x H)	mm	597 x 767 x 458
Cubic Feet		7.4
Reference Container Loading	20'	130
	40'	265
	40' H	320

Ordering Information

Part Numbers	Descriptions
XJ-SA12-316R-B	3U with 460W redundant power supply, 16x3.5 bays, single expander
XJ-SA24-316R-B	3U with 460W redundant power supply, 16x3.5 bays, dual expander