

RAIDFLEX™ 8000 Series SAS--SAS / SATA JBOD



The **RAIDFLEX 8000 JBOD** is a 2U 19" enclosure which houses a total of 12 x 3.5-inch disk bays and supports an external storage strategy providing scalability to grow with the business. Its SAS backplane provides flexibility with the possibility mixing SAS and SATA drives in a drive enclosure, and with different tiers of storage, management is simplified with near-line applications utilizing inexpensive SATA drives and highly-utilized applications deploying SAS drives.

High Availability is achieved with hot swappable Environmental Service Modules (ESM) and Customer Replaceable Units (CRUs). Components which can be removed and replaced with little or no downtime. The **RAIDFLEX 8000 JBOD** also supports redundant ESMs allowing access to all drives to continue even in the unlikely event of one ESM becoming inoperable.

The **RAIDFLEX 8000 JBOD** is fully tested and compatible as a SAS expansion unit for up to 48 drives for the following systems:

RAIDFLEX 8000 RAID Systems

RAIDFLEX 8000 RAID systems with either Fibre Channel, SAS or iSCSI host interfaces are scalable up to a maximum of 48 drives (one RAID header and three JBOD enclosures).

LSI HBA / RAID Controllers

Up to four of the **RAIDFLEX 8000 JBOD** units may be daisy-chained onto LSI HBAs such as the 8888ELP PCIe RAID controller. Connection to LSI PCIe and PCI-X single and dual port HBAs offers direct access to individual disks, which is particularly suitable for storage virtualisation appliances running operating systems such as Solaris using the ZFS

LSI Lynx 3090 SAS Switch

The LSI Lynx switch, with nine SAS ports, enables the construction of a micro-fabric where multiple servers are able to share one or more storage devices. This also offers a method of expanding the amount of JBOD storage for virtualisation appliances without introducing the complexity of a RAID controller.

Features	Applications
<ul style="list-style-type: none"> ● Up to 4.8TB with SAS drives ● Up to 12TB with SATA drives ● Daisy-chain expansion to 48 drives ● Dual Redundant SAS Expander option 	<ul style="list-style-type: none"> ● Expands RAIDFLEX 8000 FC / SAS / iSCSI ● Expands LSI 8888ELP PCIe RAID ● Expands LSI HBAs ● Connects to LSI Lynx SAS switch



RAIDFLEX™ 8000 Series

SAS--SAS / SATA JBOD

3Gb SAS	
Models	
Designation	88212z3-sj – 2U, 12 Drives, 3Gb SAS Host, single ESM 88212z3-rj – 2U, 12 Drives, 3Gb SAS Host, dual ESM
General	
Capacity (up to)	12 bay – 12TB (SATA) or 4.8TB (SAS)
Supported OS	Windows 2K, 2K03, Linux 32/64 bit, Red Hat Enterprise Linux, SUSE SLE
Powerconsumption	515 Watts (+ 5V @ 19A/+12 V @ 35A)
Performance	
Maximum aggregated bandwidth	1200 MB/s
Connections	
Host Channels	3Gb SAS (2 port per controller)
Ports	1x diaganstic port (PS/2)
Drive Channels	12 x SATA-II/SAS
Controller	
No. of ESMs	1 or 2
Hot Swap Components	
Controller	Redundant hot-swappable ESMs (only 88212z3-rj)
Hot swap trays	12 x SATA-II/SAS
Power Supplies	2 x 530 W
Cooling Fans	2 x Turbo Fan
Management	
Monitoring Messaging	SES (SCSI Enclosure Service) fuctionality for host-based monitoring
Physical	
Dimensions (WxDxH) in mm	448 x 540 x 86
Weight (unpacked, w/o drives)	27kg
Environmental	
Temperature	Operating 10°C to 40°C Non operating -20°C to 60°C
Humidity	20~80%, non-condensing
Altitude	Operating 0 – 10000ft Non-operating 0 – 20000ft
Designed to meet	
Quality standard	ISO9001
Health and Safety	UL, CUL, CB
EMC	FCC, VCCI Class A, EN55022 Class A, EN55024, BSMI, C-Tick
RoHs and WEEE compliant	Yes

