

B12F-R1430
B12F-G1430

Infortrend

EonStor® B12F 1U RAID Series

High performance density and
flexible scalability
for
4Gbps FC SAN

for 2.5-inch SFF HDD!

THE SCALABILITY

OVERVIEW

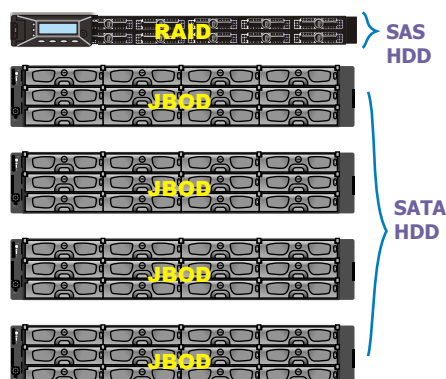
The B12F RAID series is the first 1U-profile RAID system using the latest 2.5" enterprise-drives enable the design of a highly compact RAID enclosure with better transaction rates than its 3.5" counterpart.

Use of 2.5" drives delivers greater performance density, takes up 66% less of rack space, and consumes almost only one third less of power.

The series also supports the option with large capacity SATA drives by attaching 2U or 3U JBOD.

Tiered Storage:

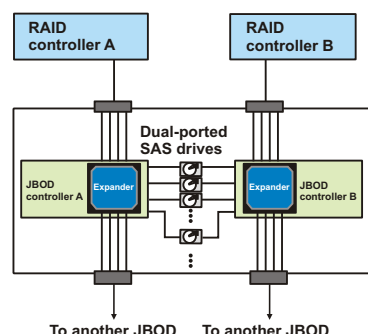
Mixing SAS / SATA HDD in 2U or 3U JBOD



60 HDD in just 5U space !



HIGH AVAILABILITY



Utilizing SAS drives' dual-ported connectivity, data paths are routed through redundant expanders and controller modules to ensure the optimal availability of your data.

In addition to path redundancy, all components are designed to withstand harsh environments and strenuous work loads. With the help of intelligent firmware algorithms, the enclosure can be operated with an ease of mind.

HIGHLIGHTS

B12F-R/G1430: 4Gbps FC to SAS

- High availability dual-active RAID controllers and fault-tolerant hardware
- Host interface: 4Gbps Fibre Channel
- Drive interface: 3Gbps 2.5" disk drives
- Max. scalability: redundant-controller: 1 RAID + 3 JBOD
single-controller: 1 RAID + 4 JBOD
- 5th generation, ASIC400 architecture:
 - Hardware RAID5 + RAID6 engine
 - Dedicated, 18Gbps sync. cache channels
- EonPath Multi-pathing software
- SANWatch w/ Snapshot protection
- RAID and JBOD matching table:

Model	1U JBOD (SAS)	2U JBOD (SATA)	3U JBOD (SATA)	Configuration
B12S-R1430	B12S-J1000-R	S12S-J1002-R	S16S-J1000-R	Dual-controller; fault-tolerant paths
B12S-G1430	B12S-J1000-S	S12S-J1000-G	S16S-J1000-S	Single-controller; single path

Connections to the 2U S12S-J1000-G and the 3U S16S JBODs require the SFF-8088 to SF-8470 cables.



AVAILABLE MODELS

Models	Controller	Host Ports	Channels	Drive Bays	Scalability
B12F-R1430	Redundant	4 (SFP)	4 (4Gbps FC)	12	1 RAID + 3 JBOD (48, SAS HDD / 60, SATA HDD)
B12F-G1430	Single	2 (SFP)	2 (4Gbps FC)	12	1 RAID + 4 JBOD (60, SAS HDD / 76, SATA HDD)

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SPECIFICATIONS

**Subsystem Characteristics**

- RISC CPU
- ASIC400 RAID engine
- Up to 2GB cache per controller
- 4G FC host ports 4 or 2
- LCD keypad panel 1
- BBU (per controller) 1
- Default DDR cache memory (per controller) 512MB
- 10/100 Ethernet port (per controller) 1
- COM ports (per controller) 2
- PSUs 2
- Cooling modules 2
- Diagnostic LEDs on all FRUs

Drive Interface

- No. of disk trays 12
- 3Gbps SAS
- Drive-side enclosure service
- SAS multi-lane expansion port (per controller) 1

Host Connection Ports

- Data single path bandwidth 4Gbps
- Tag command queuing 256

RAID Configurations

- RAID levels 0, 1(0+1), 3, 5, 6, 10, 30, 50, 60
- Up to 32 logical drives (varied by memory size)
- Up to 1024 LUNs (varied by memory size)
- Multiple array configurations
- Background rebuild/scan/initialization
- Infortrend Smart fault management technologies

High Availability

- Redundant, hot-swappable FRUs
- Subsystem self-diagnostics
- Li-Ion battery backup
- UPS status detection
- Cluster ready

Management Software

- Browser- or Java-based SANWatch software
- Terminal via RS-232C
- Telnet over Ethernet
- LCD keypad panel
- Event notification methods:
- Email/Fax/LAN broadcast/SNMP traps/SMS/MSN

OS Support

- Microsoft Windows 2000 Server/2003 Server
- Sun Solaris ver. 9/10
- Red Hat Linux ver. 8/9, 64bit, Enterprise ver. 3
- SuSE: Linux ver. 8/9, 64bit
- Fedora 64bit
- MAC OSX Version 10.4

Approvals

- BSMI, CB, CE, FCC, UL, cUL, RoHS
- Windows WHQL-Windows Server 2003

Requirements

- AC Input: 90-264VAC 380W with PFC
- DC Output: 12V-24A; 5V-30A

Relative Humidity

- 5% to 95% non-condensing
- Operating Temperature:
- 0°C to 40°C (without BBU)
- 0°C to 35°C (with BBU)

Dimensions

- With chassis ears/protrusions:
483mm W x 43.5mm H x 500.6mm D
(19 x 1.71 x 19.7 inches)
- Without chassis ears/protrusions:
444.8mm W x 43.5mm H x 497.8mm D
(17.5 x 1.71 x 19.6 inches)

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