



# iBOD-S Tiered Drive Enclosure



## **iBOD-S48 4U 48 Drive High Density Enclosure**

### Key Features

#### 48 Drive High Density Enclosure in 4U Rack Space

- 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
- Conversion at Point of Load Power
- Software Controlled Regulation of Variable Speed Fans
- Low Heat Dissipation/ BTU Rating

Compatible with leading Fibre Channel, iSCSI and SAS Head Ends, RAID Controllers and Storage Servers

#### Cableless Design for Maximum Reliability

#### 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

#### Compact 24" Depth

#### High Quality

- ISO 9000 Design and Manufacture
- ROHS compliant

#### Serial Management Ports

#### Bi-Color LED Indicators

The MPSTOR iBOD-S48 is the first in a new family of high-density intelligent tiered storage enclosures designed for OEM and integrators developing enterprise storage solutions. The iBOD-S48 is designed to provide a high-density 48-drive enclosure in a 4U form factor and at per/drive price points substantially better than standard single density enclosures. The iBOD-S48 supports SAS and SATA drive tiers. The dual density two-drive carrier provides front access hot swap insertion and removal of the disk drives and allows a compact high-density footprint. A range of drive carriers is available to support dual SAS, as well as single or optional dual channel access to single channel SATA drives. High efficiency single voltage power system and auto regulating variable speed fans provide quiet economical operation in a broad range of physical environments. Using cableless design and hot swap components throughout increases reliability and ease of service. Web or command line configuration, monitoring and management ease integration with controllers and subsystems.

The MPSTOR iBOD enclosure is designed specifically for OEMs looking to deploy demanding Network Storage applications including, Enterprise Data Center, Data Streaming & Video, Disk to Disk Back-up, Disaster Management, and ILM/IIM .

## People in Partnership have the Edge

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### Feature Description

#### General

4U 48 Drive High Density	Y
Front Access Hot Swap Drives	Y
Dual Drive Brick Carriers	Y
Mix and Match SAS & SATA II	Y
Cables Design	Y

#### Performance

Maximum Throughput Per Channel	
SAS	12 Gb/sec
SATA II	12 Gb/sec

#### Maximum Aggregate Throughput

SAS	48 Gb/sec
SATA II	48 Gb/sec

#### External Interfaces

Number of Hot Swap Interface Controllers	2
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#### Number of Host/ External Ports

SAS	4
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#### Number of Host/ External Channels

SAS	16 narrow or 4 wide
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#### Protocols

SAS-STP-SMP-SES

#### Maximum Host Connections

SAS	4
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#### Number of Drive/ Expansion Channels

SAS	2
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#### Internal Capacities Per Enclosure

#### Maximum number of Disk Drives

SAS	48
SATA II	48
Mix Drive Types	Y

#### Hot Swap & Redundancy

Disk Drives	Y
Dual drive access and hot swap controllers	Y
Cooling	Y
Power	Y

### Feature Description

#### Administration

Tri-Color LED Indicators	Y
Serial Port	Y
Command Line Interface	Y

SMP	Y
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SES	Y
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Drive Zoning	Y
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#### Alerts

Drive Failure	Y
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Temperature	Y
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PSU	Y
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Cooling Fan	Y
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#### Electrical & Environmental

Power Supply 500W Single Rail	4
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Universal A/C Input	80-250VAC
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Operating Environment	40F-120F Non-condensing
Non-operating Environment	40F-140F Non-condensing

#### Enclosure Dimensions

19" EIA Rack Mount in /mm	19 / 48
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4U Rack units in/ cm	7.5 / 19
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Depth in/cm	24 / 61
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Weight excl. Drives lbs /kg	77 / 35
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#### Regulatory

Emissions	FCC / CE
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Safety	UL/ CE
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RoHS	Y
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ISO 9000 2000	Y
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