

PAC Storage 4GB FC SBOD



PAC Storage integrates the power, flexibility and reliability of Fibre Channel switching into its industry-leading 4G Fibre Channel enclosures, supercharging back-end performance to achieve leading edge system operation and design.



The demand for ever-expandable storage grows, as do the requirements for reliability, availability and serviceability of data. FC-AL growth, and the need for increased data throughput has never been greater.

PAC Storage replaces traditional 2G Fibre Channel drive loops and integrated 2G advanced switching hubs, with the FSATA-16-SBD. This innovative new 4Gb Fibre Channel SBOD solution that uses embedded technology to create a high-performance, point-to-point switched connection between the storage controller and the individual drives, offering substantially improved read/write performance levels, up to 1.6 GB/sec per enclosure in standard operation or 3.2 GB/sec when utilizing Trunking. Eliminating the loop architecture within the standard JBOD storage enclosure dramatically improves data availability, and substantially reduces the effects of latency, especially in systems with large disk counts.

As well as enhanced performance, the FSATA-16-SBD enclosure supports advanced system diagnostic features that provide users

Features

- Point to point disk drive communications
- Bandwidth of up to 3.2 GB/s per enclosure
- Extended SES for advanced management features
- Reduced latency in large disk count systems
- Autonomous FC error monitoring of port management
- ANSI enclosure SES support for management & diagnostics
- Up to 8 non-blocking initiator connections
- Multi-path trunking doubles interconnect performance
- Trunking
- Drive LIP threshold management

with detailed information on every event, simplifying troubleshooting and enabling direct indication of failing components in any environment. This allows bottlenecks to be identified quickly and eliminated, thus protecting the integrity of the system. Single points of failure that frequently affect larger drive loops and daisy chained configurations are eliminated, so that failures no longer impact other devices in the system.

About the FSATA-16-SBD Enclosure

The PAC Storage FSATA-16-SBD family of enclosures has 16 hot-swappable disk drives in just 3 standard units of rack space, industry-leading capacity in this form factor. Designed with hot-swappable data path logic, power supplies, cooling modules and enclosure management functions, this fully-redundant enclosure is designed to meet the demands of 24/7 operation. Customization services are available for drive carrier and chassis bezel plastics. Please contact your sales representative regarding your individual company branding requirements.

Technical Specifications

Product code:	FSATA-16-SBD
Controller:	Single/dual Active/dual independent bridge
Performance:	Up to 380 MB/s dual controller
Drive support:	16 hot-swappable FC drives with point-to-point connections (per enclosure)
External interface:	1, 2 & 4Gb/s FC-AL external ports (4x SFP Cu or optical)
FC drive types supported:*	18, 36, 73, 146 & 300 GB 3.5" drives up to 15K RPM
Hot-pluggable components:	PSU/Cooling modules, disk drives, I/O modules and controllers
Dimensions	Height: (3 EIA Units) 130mm (5.12") Width: (1EC Rack Compliant) 482.6mm (19.0") Depth: 500mm (19.7") Weight: 35Kg (77.6 lbs)
Altitude	Operational: 0 to 2133m Non-operational: -305 to 12,192m
Power	Voltage: 110 to 240V AC or -48V DC Frequency: 48 - 62 HZ Consumption: 450W

* Additional drive types and capacities will be qualified as new releases are made.

Maximum System Config:	7 Enclosures
Temperature & Humidity	Temp Range: (Operating) 5 to 40°C Non-condensing: 20% - 80%
Shock & Vibration	
Operational Shock:	5g 10ms 1/2 Sine
Operational Vibration:	Random 0.21grms 5-500Hz
Non-operational Shock:	30g 10ms 1/2 Sine
Non-operational Vibration:	Random 1.04 grms 2-200 Hz
Relocation Vibration:	Swept Sine 0.3g 2-200Hz
Acoustics	Sound Power Operating: < 6.0 LwA @20°C
Warranty	
Enclosures with drives:	Up to 3 years
<i>Please contact PAC Storage for detailed warranty information.</i>	
Approvals	
UL and cUL listed. Tested to UL/IE/EN 60950. Certified Body Certificate & Report to IEC60950. CE marked to the requirements of the Low Voltage Directive 73/23/EEC and the Electromagnetic Compatibility Directive 89/336/ EEC. FCC Class A. EMC: EN55022/EN61000 - 3-2; EN61000 - 3-3.	

* For a full list of supported drives, please contact your account or sales manager.

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www.pacstorage.com