

4000F 2Gb Fibre Channel JBOD



Flexible, mid-range Fibre Channel disk expansion with assured investment protection.

The 4000F is the cornerstone of the Xyratex Fibre Channel series and provides the first step in building a scalable, integrated storage system for SANs, clustered servers and other storage intensive applications. This high density JBOD (just a bunch of disks) storage system can support up to 12 low profile disk drives per 2U shelf and scale up to 96 drives behind a single host connection. In addition, the 4000F is field upgradeable to a high availability solution utilizing Xyratex's Fibre Channel controllers for increased data protection while ensuring investment protection.

The 4000F expansion system ensures high availability by utilizing fully redundant, hot swappable components such as disk drives, Fibre Channel interface cards, power supplies and fan assemblies. Designed to support both 10K RPM and 15K RPM Fibre Channel drives, 4000F storage systems are built for superior reliability, data integrity and performance. The 4000F:

- Scales up to 3.6TB per system and 75.6TB per data center cabinet
- Supports leading edge Fibre Channel disk drives
- Provides 2Gb Fibre Channel device compatibility and quad loop support
- Ensures high availability by using redundant, hot swappable components
- Utilizes patented enclosure technology to minimize vibration

The 4000F provides configuration flexibility that supports robust business growth. The 4000F supports SAN and direct attached storage environments. Interconnecting through hubs, switches and other devices can create simple or elaborate storage configurations ranging from dedicated storage to shared resources.

The 4000F is designed to be quickly and affordably upgraded to a 4900F storage system. With the option of using single or dual controllers, the 4000F provides customers with the assurance that their storage system will grow with their business demands.

Features

- 2Gbit Fibre Channel supports SAN and direct attached environments for flexibility
- Easy upgrade from JBOD to high availability storage solution ensures investment protection
- Modular architecture and cableless design increases reliability
- StorView Management Suite provides maximum utilization
- Scalable storage allows flexible expansion as business grows
- Redundant, hot swappable components ensure high availability
- Four 2Gb Fibre Channel connections deliver maximum performance
- Fibre Channel disk drives provide optimal performance and reliability
- Ease of use features provide fast deployment and simple maintenance

Technical Specification

General Information

Host Interface	2Gb Fibre Channel ports (SFP), 200 MB/s throughput per channel. Supports point-to-point, loop and fabric (switched) topologies
System Architecture	2Gb Fibre Channel (Host and drive Channels)
Drive Interface	2Gb Fibre Channel (400MB/s full duplex), 12 Drive per enclosure
Hot Swap Components	Disk Drives, Power Supplies, Cooling Fans, and Disk I/O cards
Error/Status Reporting	SCSI Enclosure Services (SES) Interface
Drive Support (2G)	36GB, 73GB, 146GB, 300GB (up to 15K RPM)
Maximum Capacity	System: 3.6TB (12 x 300GB) Rack: 75.6TB in one 42U rack

Dimensions

Height	88mm (3.4") 2 EIA units
Width	448mm (17.6") 1EC rack compliant
Depth	524mm (20.64")
Weight	15.9kg (35lbs)

Power

Input Frequency	47-63Hz
Maximum Input Current	4.5 Amps at 85 VAC, 1 Amp at 264 VAC
Input Voltage	Auto-sensing 85 – 240 VAC (load balancing with redundant power supplies)
Power Supply Rating	Redundant (optional) 350-watt (425-watt peak) hot-swappable power supplies with current sharing
Maximum BTUs per Hour	1,194 BTUs per system
Power Source	2 US standard independent AC power cords

Certification Compliance

Emissions	FCC Part 15 Class A, CISPR 22, EN55022-A, BSMI, VCCI, C-TICK
Agency Certification	CAN/CSA C22.22 #60950-00, UL 60950 3rd Edition, CB IEC 60950 Edition 3
CE Compliance	89/336/EEC EMC Directive, EN 55024

Warranty Information

Enclosures with drives	Up to 3 years
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Please contact Xyratex for detailed warranty information.

StorView® Management Suite

StorView Local Manager for local GUI configuration and management

StorView Global Manager for remote GUI configuration, management and alert notification

StorView Alert™ for nonstop monitoring of storage environment by Xyratex support specialists

Also available is VT-100 Command Line Interface for local out of band CLI configuration

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