



The Xyratex RS-1600-FC and RS-1602-FC 2G product range is an innovative and cost effective range of high performance, modular, storage systems providing highly stable and reliable enclosures for sixteen Low Profile (1in) disk drives in only 5.25" of rack space.

16 drives in a 3U rack enclosure represents industry leading capacity in this form factor, with absolutely no compromise in cooling capability up to 40°C ambient conditions. Highly effective cooling ensures your drives will provide the best possible Mean Time Between Failure, maintaining the drive manufacturer's warranty in full effect.

The standard enclosure is designed for 24x7 operation with fully redundant and hot-swappable data path logic, power supplies, cooling and enclosure management functions. Disk drive carriers are lockable and hot-swappable.

Enclosure Features

- High drive packing density (16 drives in 3U/5.25")
- Supports FC-AL 2 at 1Gb or 2Gb/s
- Drive cooling provided by 4 Centrifugal blowers
- FCC class A, UL, cUL, and CE mark
- Dual PSUs with Power Factor Correction & autoranging
- -48VDC PSU option for Telco applications
- No active data path components on the midplane
- Operator panel with Enclosure ID selection, status indicators and configuration switches
- Fault Indicators and audible alarm for power, cooling, system faults, loop speed and hub configuration
- Suitable for standard 19" rack or Telco style center of gravity mounting
- Deskside Tower options available
- All components hot swap for maximum availability
- Dual redundant feature select module (see below)

JBOD Feature Modules

- 1Gb LRC - single or dual Sixteen drive loop(s)
 - ~ 2x DB9 or 1x DB9 and 1x SC Optical connectors
- 1Gb/2Gb LRC (single or dual loop)
 - ~ User Configurable as a 2x8 drive or 1x16 drive loop(s)
 - ~ 4x Small Form Factor Pluggable (SFP) modules per I/O Module
 - ~ LC Optical or HSSDC-2 Cu modules

A range of optional modules provides customer flexibility and investment protection. Operating to industry Fibre Channel standards at 1 or 2Gb/s, enclosures can have a number of JBOD loop architectures or provide high performance SBOD connections where required. By simply swapping IO modules, customers can upgrade from a 1Gb/2Gb JBOD to a fully featured 2Gb dual SBOD system.

The following modules are available for the product; full redundancy is provided if two modules are installed.

- FC-AL Single loop 1Gb/2Gb, with DB9 or SC Optical connections.
- FC-AL Single or Dual Loop 1Gb/2Gb, with SFP interfaces

A flexible design approach enables Xyratex to provide functions or features to maximize our OEM partners' potential; please discuss your requirements with us. Continuing our policy of providing product exclusively for OEM/System Integration Partners, the RS family has been designed with productization to match our customers brand requirements. Disk drive carriers are totally customizable through changes in color and form without incurring major costs.

The drive carriers also have mechanical properties which ensure excellent thermal, EMI and rotational vibration characteristics to support 15K RPM drives and 2Gb operation.

Feature Modules

- All modules incorporate enclosure management and status reporting via SES
- Dual redundant master/slave SES with two I/O modules installed
- FRU Fault indicators

SBOD Feature Modules

- 1Gb/2Gb SBOD controller (one or two)
- SFP Cu or Optical interface
- Max 112 drives per system
- Up to 16.4 TB capacity (146GB drives) or 33.6 TB capacity (300GB drives)

Specification

Height:	3U (5.25in)
Width:	19inch IEC Rack compliant
Depth:	RS-1600-FC 500mm, RS-1602-FC 551mm
Weight:	35kg
Power:	Max 450W
Voltage:	110 to 260V AC Single Phase 48-62 Hz or -48VDC
Acoustics:	Less than 6.0 B LwA @ 20°C
Temperature Operational:	5 to 40°C, 20 to 80% Humidity
Altitude:	0 to 2133m (0 to 7,000 ft)
Operational Shock:	5g 10ms 1/2 Sine
Operational Vibration:	-0.21 grms 5-500Hz Random
Non-Op Shock:	30g 10ms 1/2 Sine
Non-Op vibration:	-1.04 grms 2-200Hz Random
Relocation Vibration:	-0.3g 2-200Hz Sine

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