

# RS-1600-FFX2/FFX2E 2Gb RAID



The RS-1600-FFX2 incorporates the high density RS-1600 enclosure with the FFX2 2Gb RAID controller. The enclosure is also available as the RS-1600-FFX2E featuring a 10/100 Ethernet outbound management port. This cost efficient solution is perfect for demanding environments requiring solutions for data intensive applications.

The FFX2 system is flexible and expandable ensuring customer investments are protected. When fully expanded over 16TB of data can be efficiently stored and maintained (7 RS-1600 enclosures populated with 146 GB drives). This capacity is complemented with exceptional performance rates; IOPS exceed 90,000 and data transfer rates are maintained at 360MB/s.

24/7 availability is sustained using dual hot swappable redundant controllers with active-active configurations. Failover is automatic, if a controller is lost, the second will continue to provide uninterrupted data access.

RS-1600-FFX2 arrays operate with Xyratex's system management software X-DAM. The Ethernet version uses eArray Director. These

## RAID Features

- RAID levels 0, 1, 0+1, 3, 5, 10, 30, 50 and JBOD
- GBIC CU or optical interface
- Active-Active failover with dual hot-pluggable controllers
- Up to 512MB Mirrored data cache to ensure data integrity
- Sustained performance of 100,000 IOPS
- SES enclosure management
- X-DAM / eArray Director array configuration status monitoring tool
- Online RAID expansion for uninterrupted service

HTML based configuration and monitor programs have a user friendly interface combined with remote monitoring and error notification. Compatible operating systems include: IBM AIX, HP/UX, SGI IRIX, Intel-based LINUX, SPARC Solaris and MS NT/2K/XP.

## About the RS-1600 Enclosure

The Xyratex RS-1600 enclosure 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 array 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 Specification

<b>Product code:</b>	<b>RS-1600-FFX2/FFX2E</b>	
<b>FC-AL Drives supported:</b>	16 per enclosure	
<b>FC Drives supported:</b>	18GB, 36GB, 73GB & 146 GB up to 15K RPM	
<b>Chassis Material:</b>	Combination of pre-plated sheet metal, injection moulded plastics and meta castings	
<b>Hot-pluggable components:</b>	PSU/Cooling modules, disk drives, I/O modules and controllers	
<b>Dimensions</b>	<b>Height:</b> (3 EIA Units)	130mm (5.12")
	<b>Width:</b> (1EC Rack Compliant)	446mm (19.0")
	<b>Depth:</b>	511mm (20.12")
	<b>Weight:</b>	35Kg (77 lbs)
<b>Altitude</b>	<b>Operational:</b>	0 to 3047m
	<b>Non-operational:</b>	-305 to 12,192m

<b>Power</b>	<b>Voltage:</b>	110 to 260V or -48V DC
	<b>Frequency:</b>	48 - 62 HZ
	<b>Power consumption:</b>	450W
<b>Temperature &amp; Humidity</b>	<b>Temp. Range:</b> (Operating)	+5 to +40°C
	<b>Humidity non-condensing:</b>	20% - 80%
<b>Shock &amp; Vibration</b>		
<b>Operational Shock:</b>	5g 10ms 1/2 Sine	
<b>Operational Vibration:</b>	Random 0.21grms 5-500Hz	
<b>Non-operational Shock:</b>	30g 10ms 1/2 Sine	
<b>Non-operational Vibration:</b>	Random 1.04 grms 2-200 Hz	
<b>Relocation Vibration:</b>	Swept Sine 0.3g 2-200Hz	
<b>Acoustics</b>	<b>Sound Power Operating:</b>	< 6.0 LwA @20°C
<b>Warranty</b>	<b>Enclosures with drives:</b>	3 years

Please contact Xyratex for detailed warranty information.

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