

F5200E 2Gb FC-SAS/SATA RAID



The Xyratex model F5200E offers affordable data storage with high performance, continuous availability.

Businesses today demand affordable high-performance data storage and retrieval systems for performing a variety of critical business functions. The Xyratex F5200E offers high performance and continuous availability, while simplifying management. Customers can mix Serial Attached SCSI (SAS) and Serial ATA (SATA) drives in the same system resulting in optimal performance and return on investment.

Software clearly differentiates the Xyratex F5200E over other entry level storage solutions on the market today. All models in the Xyratex 5000 series of RAID systems feature StorView for intuitive administration and performance monitoring. Automated control of individual controller's cache, arrays, and devices via a web-based interface simplifies storage administration, resulting in decreased management costs and improved storage utilization. A full-function Command Line Interface (CLI) is part of Xyratex StorView allowing customers to integrate array management into existing operational procedures. An optional upgrade to StorView, StorView Global, configures, monitors, and manages Xyratex 5000 Series RAID controllers from any location, anywhere on the network.

The Xyratex F5200E provides superior performance for applications with high data throughput needs, such as video editing and database intensive online transaction processing. The Xyratex F5200E leverages SAS full duplex, point-to-point architecture with dedicated connections for maximum data throughput. With maximum flexibility, superior performance and continuous availability, the Xyratex F5200E sets new standards for entry-level RAID storage offerings.

Features

- Two (2) or four (4) 2Gb/s high speed Fibre Channel host connections per system
- Mix up to 60 high performance SAS and cost effective SATA drives in one system
- Intuitive management through controller based or host based software
- Dual active high availability and low cost single controller configurations
- Host based dynamic multi-pathing for high availability
- Exceptional expandability with 30TB of total capacity
- Online capacity growth through dynamic array and LUN expansion
- Cable-less, modular design and redundant, hot swappable components for fault tolerance
- Customizable fascia, SCSI Inquiry Strings, management interface, multi-path manager

Technical Specification

General Information

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|--------------------------------------|--|
| Product Code | F5200E |
| External Interface | 2Gb FC, point-to-point, loop and fabric (switched) topologies |
| Supported Operating Platforms | Windows 2003 (32-bit); RedHat Linux AS3/AS4 (32-bit); SuSE Linux 8/9 (32-bit) |
| Supported Hosts | 256, 512 LUNs, LUN Masking, >2TB LUNs |
| Total Capacity per Unit | 6TB |
| Expansion Chassis | 5000 (4 maximum), SAS connected, single and dual IO Module configurations |
| Total Expansion Capacity | 30TB, 512MB and 1GB Cache per controller (selectable by volume – read, adaptive read-ahead, write through, write-back), battery backup |

Disk Drives

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|---------------------------------|--|
| Disk Drives Supported | Seagate SAS (15K/36GB/73GB/146GB) Western Digital SATA (7.2K/400GB) Maxtor SAS (10K/73GB/146GB/300GB) Seagate SATA (7.2K/500GB) |
| Interface Types | SAS (3Gb/s), SATA-I, SATA-II (1.5Gb/s) +NCQ , dedicated bandwidth to each drive |
| Max Drives per Enclosure | 12, 512 Logical Drives/system, automatic bad sector assignment |

RAID Controllers

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| No. of Raid Controllers | 1 (single) or 2 (dual – HA) |
| RAID Levels Supported | Up to 60 disk arrays with independent RAID level 0, 1, 5, 10, and 50 support, selectable strip sizes (64K, 128K, and 256K) |
| RAID Protection Features | Background initialization, background parity checking, and automatic drive rebuild with redundant RAID arrays |

System Management

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| Software | StorView, StorView Global, StorView Path Manager |
| Interfaces Supported | Ethernet (out-of-band), FC host based (in-band) |

System Availability

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|--|--|
| Hot Swappable Components | Disk drives, RAID controllers, power supplies and cooling fans |
| Additional Reliability Features | StorView Path Manager – Windows host based dynamic multi-path failover |

Dimensions

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|---------------|-------------------------------------|
| Height | 87.9mm (3.46") 2 EIA units |
| Width | 443.7mm (17.49") 1EC rack compliant |
| Depth | 550mm (21.65") |
| Weight | |

Altitude, Power and Temperatures

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|---------------------------------|---|
| Operational Altitude | 2,133m (7,000 ft) |
| Non-operational Altitude | 12,192m (40,000 ft) |
| Voltage | 100-240VAC 5.0A maximum per input |
| Frequency | 60/50 Hz, single-phase |
| Power Consumption | 300W typical |
| Temperature Range | Operating: 5° to 40°C (41° F to 104° F) |
| Humidity | Operating: 10% to 80% (non condensing) |

Shock and Vibration

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|----------------------------------|---------------------------|
| Operational Shock | 5g 10ms 1/2 sine |
| Operational Vibration | Random .21grms 5-500Hz |
| Non-operational Shock | 30g 10ms 1/2 sine |
| Non-operational Vibration | Random .1.04 grms 2-200Hz |
| Relocation Vibration | Swept Sine 0.9g 2-200Hz |
| Acoustics | <58 dB LpA @20°C |

Approvals

CCC, BSMI, CE, UL, cUL, RoHS (R5), Microsoft WHQL, Microsoft RAID System Submission – MPIO (Single Host)

Warranty Information

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

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