

Overview

XSI ViperStor SAS / Fibre-to-SAS / SATA RAID subsystem provides high speed data transfer. It is fully compatible with Enterprise Class SAS drives for high performance and availability as well as cost effective SATA II hard drives. The storage capacity can be further expanded by connection via SAS ports to expansion enclosures.

Systems are employed in server attached and network data storage and in major industries such as data-mining, medical imaging, disk-to-disk backup, security/CCTV and digital media including video-on-demand, stream editing and more. With advance features seen only in higher cost storage systems:

- . Single or dual active RAID controller configuration
- . Advance hardware ASIC RAID engine
- . SAS links to expansion enclosures
- . S.M.A.R.T. support
- . Multiple host ports per controller
- . Intelligent load balancing between host port with multi-path software
- . Embedded, browser based management tool
- . Windows Logo Certificated

ViperStor subsystems are equipped with redundant and hot swappable components together with advanced monitoring management software to ensure data security and subsystem protection for continuous and reliable operation.



High Availability

- * Hot-swappable enclosure modules
- * Component redundancy
- * Intelligent reactive & preventive mechanisms
 - Automated cache flush
 - Automated Media Scan
 - Auto rebuild on hot spares
 - Automated caching mode switch
- * RAID controller transparent failover & fallback capability

Advanced RAID Features

- * RAID levels 0, 1 (0+1), 3, 5, 6, 10, 30, 50, 60
- * RAID Parity regeneration
- * 3 spare disk types: dedicated, Global, enclosure-specific
- * Instant array availability
- * Stripe size and caching mode configurable per logical drive
- * Online array expansion by adding drives or copying & replacing drives
- * Online disk cloning

Management

- * Browser-based RAID manager
- * Java-based RAID manager
- * LCD keypad panel
- * Terminal console via RS-232 port
- * Telnet

Monitoring

- * S.M.A.R.T. status pooling
- * Voltage, module presence, temperature monitoring
- * Automated FRU status pooling

Operation Robustness

- * Intelligent read algorithms
- * Write cache threshold purge
- * Bad sector reassignment
- * Configurable task priority
- * Multiple co-existing RAID arrays w/stripe sizes ranging from 16K to 1MB
- * Power saving Drive Spin-down options
- * RAID level migration
- * RAID configuration on drives (drive roaming)

JBOD Characteristics

- * Single controller
- * Redundant controller
- * Separate SAS domains to dual-ported SAS drives
- * Fault tolerant hardware
- * Diagnostic LED panel
- * Fault tolerant option for access from dual controller RAID

OS SUPPORT

- . Microsoft Windows 2000 Server . Microsoft Windows 2003 Server
- . Sun Solaris ver. 9/10
- . RedHat Linux ver. 8/9, 64-bit, Enterprise ver.3
- . SuSE: Linux ver. 8/9, 64-bit
- . Fedora 64-bit

DRIVE INTERFACE

- . SAS (3Gbps)

LUN CONFIGURATIONS

- . Up to 32 logical drives (varies by memory size)

APPROVALS

- . RoHS
- . China RoHS
- . Microsoft WHQL-Windows Server 2003 EMC
- . CE
- EN 55022: 1998/A1: 2000/A2: 2003 - EN 61000-3-2: 2000/A1: 2001 - EN 61000-3-3: 1995/A1: 2001 - EN 55024: 1998/A1: 2001/A2: 2003
- . FCC (FCC Part 15, subpart B)
- . BSMI (CNS 13438) Safety
- . UL (60950-1: 2003)
- . BSMI
- CNS 14336: 1993 IEC 60950-1, First Edition

MANAGEMENT SOFTWARE

- . Event notification methods:
E-mail/ Fax/ LAN broadcast/ SNMP traps/ SMS/ MSN

Model	Host Interface	Disk Bay	Disk Type	Redundant Controller (HA)	RAID 6 support	ASIC	Max. cache mem	Disk bay expansion
6312SS	SAS	12	SAS or SATA II		Yes	400	2GB	Optional
6316SS	SAS	16	SAS or SATA II	Optional	Yes	400	4GB	Optional
6212FS	4Gb FC	12	SAS or SATA II	Optional	Yes		4GB	
6316FS	4Gb FC	16	SAS SAS II	Optional	Yes	400	4GB	



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