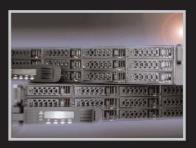# sixRAID 12bay SCSI 320 TO SATA

emeaRaid`s sixRAID series is a 19" rackmount standard, low profile, ultra condensed, modular and cable-less storage array designed for various needs of fast-growing environments. Target usage ranges are set from small business to department and corporate server needs.

The sixRAID series offers high performance and reliability, considerable availability greater capacity and cost effective external RAID subsystem, which uses the new generation of Serial ATA 1.0 channels for disk drives or either Ultra320 SCSI or 2Gbps Fibre channel I/O standard to connect services to the Host computer.

After you have configured the sixRaid, you can provide a non-stop service with a high degree of fault tolerance through the use of RAID technology and advanced array management features

RAID Architecture

- Intel 80321 I/O processor
- Proprietary ASIC to support extreme performance RAID 6 function.
- Up to 1GB 200MHz DDR SDRAM on one DIMM socket with ECC protection
- Advance 64-bit PCI-X bus architecture.
- Marvell 8 channels SATA controller (88SX5080)

RAID Features

- RAID Levels: 0, 1, 3, 5, 0+1, 6 & JBOD
- Multiple RAID selection
- Online RAID level/stripe size migration
- Online Array roaming
- Online capacity expansion and RAID level migration simultaneously
- Instant availability and background initialization
- Automatic drive insertion / removal detection and rebuilding

Host Interface

- Two Ultra320 SCSI Channels - 320MB/sec per channel

Drive Interface

- 12 of SATA 1.0 channel -1.5Gbps per channel

Monitors / Indicators

- LCD Control Panel for setup, alarm mute and configuration
- System status indication through LCD, LED and alarm buzzer
- All system events can be sent to multiple user alerts to be via Plain English e-mails.

RAID Management

- Field-upgradeable firmware in flash ROM.
- Firmware-embedded SMTP manager Monitor all system events and user can select either single or multiple user alerts to be sent via Plain English emails.
- Firmware-embedded Web Browser-based RAID manager via 10/100 Ethernet port

Operating System

- OS independent and transparent.

Environmental /Physical

Cooling System
- Hot swappable and redundant Cooling Fan modules.

Power System
- Redundant by Dual 350W Power modules with PFC feature, Load Sharing type and cable-less design.
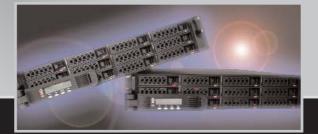
Electrical
- AC Voltage 110-230 VAC /AC Frequency 50-60Hz

Temperature
- Operating Temperature: 10 to 35 degree C.

Relative Humidity
- 20% to 80% non-condensing

Dimensions
- 446mm(W) x480mm(D) x 2U

emeaRAIDconnection

SIXRAID is a 12 of SATA drives to Ultra320 SCSI host interface, 2U - 19" standard rackmount RAID subsystem. The RAID controller uses a high performance Intel Xscale CPU along with intelligent cache system, which supports up to 1GB DDR memory. With advance algorithms to provide RAID level 0, 1,3, 5 and **6** as your option, you can benefit performance and availability. SIXRAID provides dual channels of a new generation Ultra320 SCSI (320MB/sec) as Host interface to connect services server, the through put can easily approach to 150 MB/sec.

New generation of Serial ATA is utilized in our design as the disk interface; you can easily build a TB RAID with less compatible problems with total 12 pieces of SATA disk drive.

Redundancy and hot pluggable power supplies and cooling system can tolerate a main failure without interrupting service. Web configuration (on board Ethernet supported) brings you a most convenient way to configure and monitor your RAID subsystem.