

iR16SASER

iStoragePro Rackmount 16 bay Enterprise SAS RAID System



Product Overview

iStoragePro R16 Rackmount Enterprise SAS RAID system is equipped with a high performance SAS technology. By using one MiniSAS 8088 cable, iR16SASER can connect to the host controller card which is capable of providing high speed storage solution. This efficient SAS interface setup provides cost effective solution without compromising performance. iStoragePro R16 SAS RAID system can easily be configured as a RAID 0, 1, 5, 6, 10 & JBOD, capable of providing performance and fault-tolerance to protect your video data. iR16SASER SAS RAID system is designed for expansion total 80 Hard Disk Drives by daisy chain multiple SAS JBODs

Key Components

- Intel IOP 81341 800MHz
- 1GB ~ 2GB DDRII 533 DIMM (1GB included)
- UARTs for serial console management and UPS
- Dedicated Fast Ethernet port For Web-UI
- Backend: Up to 16 SAS 3.0Gb/s, or SATA 1.0, 1.5Gb/s or SATA 2.0, 3Gb/s disks
- Front-end: 2X 4-lane wide ports
- LCM supported for easy management use
- Battery backup support (Optional)

Key Features

- 2 X 4-lane wide ports
- Volume sharing among multiple hosts
- Host access control
- RAID 6, 60
- Configurable N-way mirror for high data protection
- On-line volume migration
- SATA II drive Backward-compatible
- Global/dedicated cache
- Clustering
- SAS JBOD expansion
- Web UI management
- Quick installation
- S.E.S. inband monitor
- Complete notifications through multiple interfaces
- UPS & BBM protection
- Disk auto spindown
- Batch configuration & system configuration export

Enclosure Monitoring

- S.E.S. enclosure management
- UPS management via the specific serial port
- Fan speed monitoring
- Redundant power supply monitor
- Voltage monitor
- Thermal sensors on the controller board and in the enclosure.
- Status report of the managed SAS/SATA JBODs

RAID & Volume Operation

- RAID level: 0,1,0+1,3,5,6,10,30,50, 60 and JBOD
- Up to 1024 logical volumes in the system
- Global and dedicated hot spare disks
- Write-through or write-back cache policy for different application usage
- Dedicated or shared cache allocation for volume usage
- Multiple RAID volumes support
- Configurable RAID stripe size
- Online volume expansion
- Instant RAID volume availability
- Auto volume rebuilding
- On-line volume migration

Advanced Data Protection

- Built in snapshot with rollback enabled
- Local N-way mirror
- Off-line array roaming
- Smart faulty sector relocation
- Battery backup support (optional)

Management Interface

- Management UI via
 - Serial console
 - SSH telnet
 - HTTP Web UI
 - Secured Web (HTTPS)
- Event notification via
 - Email
 - SNMP trap
 - Syslog
 - Windows Messenger
 - Browser pop-up windows
- Online system firmware upgrade mechanism
- Built-in LCD module to control most enclosure components
- iSNS & DHCP support

IO Performance

- 1000MB/sec with SAS hard drives
- 700MB/sec with SATAII hard drives

Host Connection

- 2 x 4-lane wide ports support
- SCSI-3 compliant
- Multiple IO transaction processing
- Tagged command queuing
- Access control in LUN usage: Read-Write & Read-Only
- Hard drive S.M.A.R.T. enabled for SATA drives
- Up to 32 host connection
- Up to 16 hosts clustered for one volume
- Compatible with Windows, Linux, & MAC Operation Systems
- One SAS JBOD expansion port to connect the SAS JBODs for the possible capacity expansion
- Up to 4 SAS JBODs can be connected to by using the SAS JBOD port
- The overall SAS / SATA drives supported for one controller is up to 80 drives
- The maximum capacity supported for single controller is 128 TB

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