iR16FC4ER

iStoragePro™
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16-Bays Rackmount Enterprise 4GB Fibre Channel RAID System

Product Overview

iStoragePro R16 Rackmount Enterprise Fibre RAID system is equipped with the high performance Fibre Technology designed with multiples 4GB Fibre connection to host computer which is capable of providing high speed storage solution. This efficient Fibre interface setup provides cost effective solution without compromising performance.

Advanced Data Protection

- Built in snapshot with rollback enabled
- Microsoft Windows Volume Shadow Copy Services (VSS)
- Local N-way mirror
- Off-line array roaming
- Smart faulty sector relocation
- Battery backup support (optional)

Performance

- 1 FC Port : 400 MB/Sec
- 2 FC Port : 800 MB/Sec

Key Features

- 2X 4Gb ports w/ load-balancing & fail-over for high availability
- Multi-Path (MPIO)
- Volume sharing among multiple hosts
- Host access control
- RAID 6, 60
- Configurable N-way mirror for high data protection
- On-line volume migration
- SATAII drive Backward-compatible
- Global/dedicated cache
- iSnap : build-in iStoragePro writable snapshot feature

- Windows VSS
- Clustering
- SAS JBOD expansion
- Web UI management
- Quick installation & Volume create wizard
- S.E.S. inband monitor
- Complete notifications through multiple interfaces
- UPS & BBM protection
- Disk auto spindown
- Batch configuration & system configuration export

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Controller components

- Intel IOP 81341 800MHz
- 512MB ~ 2GB DDRII 533 DIMM
- UARTs for serial console management and UPS
- Dedicated Fast Ethernet port For Web-UI
- Backend: Up to 16 SAS 3.0 Gb/s, or SATA 1.0, 1.5Gb/s or SATA 2.0, 3.0 Gb/s disks
- Front-end: 2X 4Gb FC ports
- LCM supported for easy management use
- Battery backup support (Optional)

Enclosure Monitoring

- S.E.S. enclosure management
- UPS management via the specific serial port
- Fan speed monitoring
- Redundant 550W 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

Management Interface

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

Host & Drive Connection

- 2 x SFP optical FC ports support independent access, fail-over, or load-balancing
- Microsoft Multipath IO (MPIO)
- 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 connections
- Up to 16 hosts clustered for one volume

- Compatible with Windows, Linux, & MAC Operation Systems
- Up to 4 SAS JBODs can be connected 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