

Tyrone Opslag D1-3QI-16

3U 16-bay high performance iSCSI-SAS RAID system iSCSI GbE (x4) (supports both SAS and SATA drives)



Feature Highlights

1. iSCSI hardware off-load engine enabled
2. Supports Snapshot
3. Microsoft VSS support
4. Support 4 x SAS JBODs expansion
(Up to 80 drives for one RAID controller)
5. Load-balancing & fail-over
6. RAID 6, 60
7. Volume sharing
8. Web-based management
9. On-line volume expansion & migration
10. HDD S.M.A.R.T. enabled
11. Disk auto spindown support

Performance

- Read+Write : 600MB/sec
- IOPS 120K

Key Components

1. iSCSI-SAS RAID Controller
 - (a) Intel Xscale IOP342 (Chevelon dual core)
 - (b) 1GB ~ 2GB DDRII 533 DIMM
 - (c) 32MB Flash
2. UARTs: serial console and UPS
3. Fast Ethernet port for management
4. Drive-side: SAS(3.0Gb/s), SATAII(3Gb/s), SATAI(1.5Gb/s)
5. Host-side: Two Intel dual-port GbE controllers
6. LCM & Enclosure monitor processors
7. Optional Battery backup module

RAID & Volume Operation

1. RAID level: 0, 1, 0+1, 3, 5, 6, 10, 30, 50, 60 and JBOD
2. Up to 1024 logical volumes in the system
3. Up to 16 PDs included in one volume group
4. Global and dedicated hot spare disks
5. Write-through or write-back cache policy
6. Multiple RAID volumes support
7. Configurable RAID stripe size
8. Online volume expansion
9. Instant RAID volume availability
10. Auto volume rebuilding
11. On-line volume migration

Advanced Data Protection

1. Snapshot
 - (a) Built-in snapshot with rollback enabled
 - (b) Snapshot enabled up to 16 volumes, each logical volume supports up to 32 snapshot volumes, total 512 snapshot volumes per controller
2. Off-line array roaming
3. Smart faulty sector relocation
4. Battery backup support (optional)

Power & Environment

- AC input : 100-240V ~ 8A-4A 550W 1+1 with PFC (Auto Switching)
- DC output : 3.3V-28A; 5V-30A; 12V-35A
- Operating Temperature : 10°C to 40°C
- Relative Humidity : 5% to 95% non-condensing

Dimension

1. 3U 19-inch rackmount chassis
2. 447(W) x 550(D) x 131(H) mm
(17.6 x 21.6 x 5.15 inches)

Enclosure Monitoring

1. S.E.S. support for standard enclosure management
2. UPS management via the specific serial port
3. Fan speed monitoring fan x2
4. Redundant power supply monitor
5. 3.3V, 5V and 12V voltage monitor
6. Thermal sensors x 3 on the controller board (for the processor, bridge and host channel chip)
7. Thermal sensor x 3 (up to 24) in enclosure.
8. Expanded D1-3QJ-16 SAS/SATA JBODs status monitor

Management Interface

1. Management UI via serial console, SSH telnet, and secured Web (HTTPS)
2. Online system firmware upgrade mechanism
3. Event notification via Email , SNMP trap , windows & browser, pop-up Messenger , Syslog
4. Run-time IO transactions recording
5. Basic operation via LCM

Host Connection

1. 802.3ad port trunking and LACP
2. MC/S support
3. Microsoft Multipath I/O (MPIO)
4. iSNS & DHCP support
5. CHAP authentication
6. Data/Header digest support
7. iSCSI jumbo frame support
8. LUN Access control : Read-Write & Read-Only
9. iSCSI multiple target mode : 32 nodes support
10. Up to 32 host connections
11. Up to 16 hosts for one volume
12. Support Windows, Linux, MAC

Drive Support

1. SCSI-3 compliant
2. Multiple IO transaction processing
3. Tagged command queuing
4. Hard drive S.M.A.R.T. enabled
5. SAS expansion port connecting up to 4 D1-3QJ-16 SAS JBODs
6. Up to 80 SAS/SATA drives per controller

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