AccuRAID AR424IT

4U 24-Bay 2x10G iSCSI to SAS/SATA Enterprise RAID Subsystem Storage

Overview

The **AccuRAID AR424IT** is a 4U 24-bay dual channel 2x 10GbE iSCSI to SAS/SATA RAID subsystem with redundant controller upgradeable option. With built-in 2x 10GbE Ethernet ports supporting independent access, fail-over or load-balancing (802.3ad port trunking, LACP), AR424IT is capable of composing a high performance SAN environment with a fraction of the cost of Fibre Channel RAID storage systems. Built-in redundant controller ready backplane allows non-destructive redundancy controller upgrade path without purchasing a brand new hardware. Supporting RAID 0, 1, 1+0, 3, 5, 6, 30, 50, 60 and JBOD, with global or dedicated hot spare disks, multiple hard drive failure could be protected without downtime or data loss.

The built-in powerful 64-bit RAID processor provides high performance through-put. The built-in Snapshot feature provides point-in-time copy of saved data without relying on the host software. Management is available via Web and Secure Web (HTTPS), SSH telnet or serial console, with built-in event notification via e-mail or SNMP trap. Redundant power supplies, cooling fans and controllers are part of the modularized design to allow redundancy as well as off-self spare parts to eliminate downtime. To increase the return of investment, AR424IT supports both SAS and SATA drives, and could be expanded by adding up to 3 additional SAS/SATA JBOD units (Total Storage: 96 bay or 192TB). Intended to provide storage solution for IT and vitalization server computing with VMware vSphere or, Microsoft Hyper-V or Citrix with SCSI-3 persistent target support, the AR424IT is a perfect solution for Storage Area Network needs in IT and other applications.

Architecture

- Intel IOP 342 64-bit processor with 2GB on-board ECC cache memory (upgradeable to 4GB).
- Single controller with redundant controller upgrade option.
- Up to 1300MB/s and 220K IOPS with dual redundant controller.

- SAS / SATA II RAID 60 ASIC engine, providing the highest level of data protection.
- Supports Dual 10G Channel, or 2 * 10 Gigabit Ethernet, supports 802.3ad port trunking, LACP.
- Support SCSI-3 Persistent Target for Windows Server clustering.
- Support VMware Sphere, ESX/ESXi 4.0, Microsoft Hyper-V and Citrix XGen
- Supports SAS or SATA Hard drives.
- Redundant and hot-swappable power supply and cooling fans.
- O/S-Independent and host transparent RAID solution.

RAID

- Supports JBOD, RAID 0, 1, 0+1, 3, 5, 6, 30, 50, 60 with global and dedicated hot spare and multiple volumes.
- RAID 6 tolerates multiple drive failures without downtime or data loss, providing the most advanced level of data protection.
- Supports online array migration and online capacity expansion.
- Hot swappable drives that support hot spare and automatic hot rebuilding with automatic drive insertion/ removal detection.
- Built-in Snapshot and Windows Volume Shadow Copy Support (VSS).

Management

- Embedded enclosure management through WEB GUI, LCD control panel, and online RAID management via serial port.
- Intuitive, yet comprehensive GUI for configuration and monitoring from remote and local locations.
- Built-in event notification via e-mail and SNMP trap.
- iSNS and DHCP supported.