

8-port {1GbE} iSCSI

RAVEN II

8-port (1GbE) iSCSI - powered by a 10GbE Core

RAID Incorporated's Raven II iSCSI solution is the industry's first high-performance based iSCSI solution available in an 8-port 1GbE storage system powered by a '10GbE core technology' with enterprise virtualization features and 4Gb of cache in a 3U 15 removable drive bay chassis with triple redundant power supplies. This solution addresses the needs of customers that are looking to utilize their existing network infrastructure to consolidate information into an affordable, performance-based storage infrastructure that hasn't been available until today.

This solution extends the benefits of existing NAS solutions, provides a low-cost entry into an IP-based SAN and is ideal for existing server consolidation initiatives, HPC environments and disk backups. The 8 iSCSI ports allow for up to 870MB/sec and rivals performance levels of current Fibre Channel SAN solutions. With the link aggregation feature, users have the ability to aggregate ports and preset the quality of service for any distinct application. The Volume Virtualization feature improves performance and disk utilization by dynamically spreading multiple RAID sets across all spindles in the solution. In addition, this technology allows for true dynamic capacity expansion.

Product Features

RAID levels: 0, 1, 10, 5, 50
Enclosure: 3U, 15 removable bays with redundant power supplies
Capacity: 15TB maximum capacity
VLAN Support: Up to 8

Volume Virtualization: Volumes can be created from drives of dissimilar capacity and technology. Growth can occur without migration or reconstruction. Automated single drives can contain multiple and divergent RAID technologies. As part of volume protection, the controller is protected via the enabling option of disk line which provides location protection, content protection and forced error support.

Performance: Link aggregation support which provides users the ability to scale host connectivity for performance across any combination of iSCSI ports which can sustain transfer rates at wire speeds of up to 120MB/s full duplex per port with the added benefit of predefining priority service of each target server.

IP San Manager creates storage pools, allocates storage resources to servers and directs storage network traffic through the creation of zones. Rich management features allow users to manage their online network storage with uncommon ease and flexibility.

Cache Management supports up to 4GB of cache, write-back, write through, write-coalescing and multi-stream read ahead on a volume basis, which optimizes cache utilization and performance in an application-dependent manner. Cache and its metadata will persist through sudden power loss via an on board battery for over 72 hours.

Benefits

- Affordable IP-based SAN that uses existing network infrastructure.
- Simple to set up and manage. Virtual RAIDs and LUNS can be created with just a few mouse clicks - no expertise in storage management needed.
- Link aggregation support provides the system administrator the ability to map ports in order of priority to maximize the performance of any individual server with the added feature of predefining the priority service for each server.
- Since the core of the technology is 10GbE there exists more than sufficient performance to satisfy the most demanding iSCSI applications.
- Volume Virtualization improves performance, disk usage, and allows for easy dynamic storage expansion. This technology allows maximum performance of the disks by automatically spreading the load. No need to have even number of drives in any RAID level.
- There is no longer a need to over-provision RAID sets due to the fear of expansion complications. The solution allows for LUN expansion on the fly.
- Multiple RAID levels can be incorporated within a single solution. Each RAID level utilizes all the drives within the solution thus maximizing performance of each RAID level.
- The spare space for disk failure protection is spread across the virtual disk, which provides instant availability to transfer data from an ailing drive.