QuodCelior iStor™ iSCSI Target (RAID Storage) Model 4XS

Combining the strengths of networking and SCSI to build an affordable and reliable Storage Area Network (IP-SAN).

The QuodCelior iStor maps SCSI commands over a TCP/IP network and utilizes relatively inexpensive Gigabit Ethernet (GigE) network components to send blocks of data over an IP network. Supported by software and hardware heavyweights such as Microsoft, IBM, Cisco, and Intel, the QuodCelior iStor is poised to bring SAN technology to the next generation of simplicity, affordability and manageability.
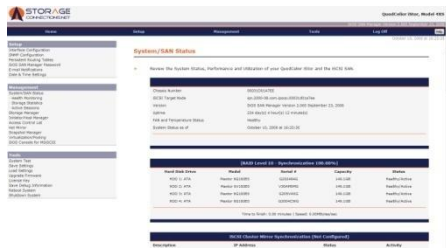
Introduction to iSCSI SAN

The Internet Small Computer System Interface, or iSCSI, is a widely adopted IP based protocol that provides all the benefits of block-based storage with SCSI compatibility. Combined with the distance, bandwidth, standardization and low cost of Ethernet, it also comes with a huge base of IT expertise from those already familiar with Ethernet and IP. The iSCSI protocol maps SCSI commands over a TCP/IP network and utilizes relatively inexpensive Gigabit Ethernet (GigE) network components to send blocks of data over an IP network. As a result, iSCSI provides IT staffs an alternative to existing solutions, such as Fibre Channel SANs, while combining the familiarity, bandwidth and low cost of Ethernet with the efficient, speedy, block-based data transfer performance of a SAN. IP for networked storage is inevitable. By implementing iSCSI, organizations have the opportunity to leverage existing network infrastructure investments while reaping the benefits of future proliferation of IP based network storage.

Introducing StorageConnections.Net QuodCelior iStor

StorageConnections.Net is a storage provider leading the iSCSI SAN revolution. StorageConnections.Net offers an intelligent iSCSI SAN platform that radically reduces the complexity and cost of enterprise level, networked storage solutions. Leveraging the cost and performance advantages of Ethernet, StorageConnections.Net's architecture revolutionizes storage by enabling a new generation of open, high performance, easily scalable networked storage solutions. The StorageConnections.Net QuodCelior iStor iSCSI Storage Sub-System is a low-cost, flexible, reliable, block-level network storage solution that assimilates the fabric of Ethernet networks directly into the storage system platform, enabling unprecedented scalability, availability and manageability. StorageConnections.Net's QuodCelior iStor Storage Sub-System is the disk array, or iSCSI target, in the iSCSI SAN. Organizations utilizing StorageConnections.Net's iSCSI, network-based technology will migrate from Fibre Channel components to inexpensive, off-the-shelf, industry standard GigE network components. StorageConnections.Net is vendor-neutral and operates simply in any open, standards based network environment. Consequently, the interfaces between the host and the QuodCelior iStor Storage Sub-System can be from any standards-based vendor, since StorageConnections.Net can interoperate with a variety of GigE host Initiators and network-switches. In addition, since the QuodCelior iStor Storage Sub-System is an iSCSI, networked-based disk array, it is readily available across large networks and can be dynamically scaled in capacity and performance. Organizations can set up storage disks/virtual tapes from 128Mbytes to as many terabytes of space that are available. There are no restrictions on the size of the disks/virtual tapes. Moreover, any number of individual available hosts can initiate these disks/virtual tapes. IT administrators can easily assign disks/virtual tapes to a single host, they can be re-deployed, or they can be shared in a clustered environment.

Product Highlights

- SCSI Disk & Virtual Tape Emulation (DLT/DAT) with customizable SCSI strings.

- Supports Synchronous or Asynchronous Unit Mirroring with automatic failover, Storage Virtualization/Pooling and Snapshots.

- Smart Teaming (Link Aggregation).

- Web based SAN Management Software (SiOS™ SAN Manager).

- Access Control List (ACL) for assigning host(s) read/write access with auto LUN Masking.

- Volume Manager for Virtual Target/iDisk creation and on-the-fly capacity resizing.

- RAID-0, 1 and or 5 creations by few mouse clicks. In Virtualization/Pooling mode RAID-10 and RAID-50 supported.

- Real-time e-mail alerts monitoring tools.

- Very low TCO (Total Cost of Ownership), builds on to the existing Ethernet infrastructure.

- Simplicity, because the QuodCelior iStor uses standard Ethernet, it doesn't suffer from some of the complexity and distance limitations that encumber other storage protocols.

- Up and running in minutes, the QuodCelior iStor is installed in less than 15 minutes.

- **3-years limited warranty.**

Making Storage Networking Commodity™

Technical Specifications

Protocols	iSCSI (RFC 3720)
	String Profile for iSCSI Names (RFC 3454)
	iSCSI Naming and Discovery (IETF draft version 10)
	iSNS (IETF draft version 19)
	IPSec (RFC 2401)
	IP (RFC 791)
	TCP (RFC 793)
	ICMP (RFC 792, 950)
	HTTP (RFC 1945)
	Other RFC's (iSCSI MIB/SNMP) 1191, 2018, 1323, 826, 1166, 1918, 768, 793,813, 821, 822, 823, 882, 883, 973, 974, 894, 826, 1062, 3168, 2616 and 1867)
	SCSI-2, SCSI-3, SAM-2 and SAM-3
Number of Host Initiators	Up to 192
Number iSCSI Targets	Up to 192
Multiple Sessions per iSCSI Target	Up to 192
Multiple Connections per Session	Up to 192
RAID Levels	0, 1, 10, 5 and 5 + Hot-Spare
Data Transfer Rate	Up to 250Mbytes/sec in full-duplex mode
I/O connections	10/100/1000Mbit Ethernet Interface (iSCSI/Management)
	10/100/1000Mbit Ethernet Interface (iSCSI)
Hot Swap Components	Four (4) SATA Hard Disk Drive bays, two (2) Power Supply Unit
Data Rebuild	Automatic Data Regeneration
Operating System Support	Microsoft, Novell, Linux, Mac OS X (contact SUN or IBM for Solaris or AIX)

Chassis Specifications

Power Supply Capacity	650W (1 + 1) Redundant AC power supply w/ PFC
Voltage	100 ~ 240VAC Full Range, auto-sensing
Frequency	50 ~ 60HZ
Input Current	8.0A (RMS) for 115VAC
	4.0A (RMS) for 230VAC
Inrush Current	70.0A MAX. for 115VAC
	90.0A MAX. for 230VAC
Operating Temperature	10° to 35°C (50° to 95°F)
Altitude	-492 to 3048 meters (-150 to 10,000 feet)
Relative Humidity	8% to 90% (non-condensing)
Weight	46 lbs (20.9kg) without drives
Dimension	Depth 650mm (25.6") x Width 437mm (17.2") x Height 43mm (1.7")

Regulatory Standards Compliance

Compliance	Products bear CE Marking indicating compliance with the (89/366/EEC, 73/23/EEC) directives, which includes the following safety and EMC standards. RoHS
Safety	UL 60950
EMC	FCC (CFR 47, part 15) Class A

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