

integraStor™ iS325 Storage System



- Accelerates Applications
- “Ease of Use”
- Lowers IT Overhead
- Investment Protection with Scalable Capacity
- Quick Installation with Flexible Configuration

APPLICATIONS

- Disk to Disk backup
- Content delivery —
Web servers,
Video streaming
- Imaging
- Video Surveillance
- Data archiving
- Content management
- E-mail servers
- Data Base Applications
- Online Transactional
Processing (OLTP)
- Any High-Speed SAN
Storage

KEY FEATURES

Adaptive and Persistent Cache Management

- Write Back, Write Through,
Write Coalescing, and
Read Ahead

Volume Virtualization

- Online Capacity Expansion
- RAID Level Migration
- Free Space Reclamation
- Auto Rebuild
- Micro Rebuilds

iSCSI Performance

- Jumbo Frames Support
- Full TCP/IP Hardware
Off-load Engine (TOE)

Standards Based Platform

- Conforms to Storage
Management Initiative
Spec (SMI-S)
- CHAP Authentication
Security Support
- Enclosure Management
Services Ready

iS325 integrated storage system *inA*bled by GigaStor Technology

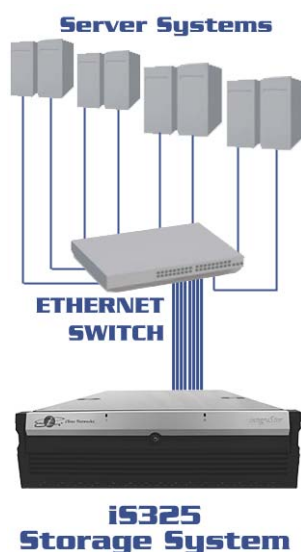
The integraStor iS325 solution is iStor's flagship storage system product that provides cost-effective, high-performance, feature rich, energy efficient (“Green”) iSCSI RAID storage solutions for IP Storage Area Networks (SANs).

The heart of the iS325 storage system is GigaStor technology, comprising a next generation “Storage System on a Chip”

designed to accelerate iSCSI RAID, iStor's advanced storage virtualization firmware, and iStor's embedded IP-based management graphical user interface (GUI). GigaStor technology enables the iS325 to be the industry's most advanced iSCSI storage system at entry level pricing, that is easy to install, configure, and maintain.

iS325 is an integrated storage system with a choice of drives & memory. This solution also includes a simple management GUI with an easy “4-click” installation that greatly reduces configuration time so IT managers can focus their valuable resources on supporting their users instead of maintaining equipment. iS325 storage system provides up to 10Gbps performance — significantly exceeding the speed of any Fibre Channel product. iS325's high level of integration

provides a complete scalable solution at an attractive total cost of ownership (TCO).



IP SAN Application Solution

The iS325 Storage Solution is a perfect union for iSCSI solutions that require storage consolidation, SAN extension over IP-based WANs, and SAN/NAS consolidation across a single unified fabric. The iS325 provides block-based, cost-effective RAID storage solutions by integrating forward-looking GigaStor technology. The iS325 design addresses a wide spectrum of customer environments from the most demanding transaction processing workloads to the high performance requirement of video applications.

Robust Storage Management

At the heart of the iS325, is the highly-integrated, high performance 10Gbps iStor storage SoC. The SoC has embedded processors running a fully featured, integrated storage-virtualization firmware stack. It also offers features such as media protection, caching, redundancy, and RAID virtualization that meets the storage requirements and needs of enterprise class 10GbE storage systems.

Flexible Expansion

The iS325 supports up to 15 high performance, high capacity SATA drives, and can be configured to take advantage of the 4 or 8 port GbE or 1 port of 10GbE iSCSI throughput. By utilizing Serial ATA disks, the iS325 enables compelling block-based network storage solutions such as near line storage, disk-to-disk backup, and DAS replacement along with high-capacity providing compelling total cost of ownership.



iStor Networks, Inc.®

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COMMON TECHNICAL SPECIFICATIONS

iSCSI NETWORK INTERFACE

• Host Connectivity	1GbE = 4 or 8 ports, RJ45 connectors. 10GbE = 1 port, standard connector for XFP Transceiver, sold separately.
• Connections	1,024
• CHAP Authentications	Yes
• Access Control of Management	Yes
• iSCSI/TCP/IP Full HW Offload	Yes
• Jumbo Frames Support	Yes

VOLUME AND RAID SUPPORT

• RAID Controller	GigaStorATX 1GbE or 10GbE
• RAID Support	RAID Levels 0, 1, 1+0, 5 and JBOD (Striped sets, mirrored sets, parity sets, striped mirrored sets, and JBOD)
• Volumes / Target Nodes	1,024 Virtual Volumes (256 available per initiator) / 1,024
• VLANs Supported	Up to Eight VLANs Supported (1-to-1 mapping between IP subnet and VLAN. Multiple VLANs per physical port with VLAN tag. — 1GbE Only: All physical ports in LAG belong to the same VLAN.)
• Online Capacity Expansion / Hot Swappable Drives	Yes / Yes
• Instant Volume Access	Yes
• Free Space Defragmentation	Yes
• Auto-Detection Failed Drive / Auto-Rebuild	Yes / Yes
• RAID Level Migration	Yes
• Drive Roaming in Power Off	Yes
• Micro Rebuilds	Yes

STORAGE MANAGEMENT

• Embedded IP-Based Management GUI	Create, manage, expand, and monitor storage pool, volumes and RAID. Event manager to view and persist events.
• Firmware Field Upgradeable / SMI-S Version 1.1	Yes / Yes

OS AND HBA SUPPORT

• Operating System Supported	Microsoft® Windows® 2000 Advanced Server SP4 and Server SP4; Windows 2003 (x64) Enterprise Edition R2 and Standard Edition R2; Windows 2003 (x86) Enterprise Edition R2, SP1 and Standard Edition R2, SP1; Red Hat, Red Hat Advanced Server, SuSE Professional and Linux; Mac® OS 10.3 and 10.4; emboot winboot/1
• iSCSI Ethernet Host Bus Adapters Supported	QLogic® QLA4010C iSCSI PCI-X; Adaptec® 7211C 1 Gb iSCSI PCI-X; ATTO iSCSI Mac Initiator - Xtend SAN; Intel® PRO/100T IP Storage; Alacritech® iSCSI Accelerator; 3COM 00-0337-000 Rev. B; Neterion 10Gbe (10GbE Only)
• Switches	Dell Power Connect 3424 24 Port 1GbE; Raptor ER 1010 24 Port 1GbE/10GbE; Fujitsu XG0801A 10GbE Optical; D-Link DXS 3250 48 Port 1GbE 2 Port 10GbE Uplink; Extreme Summit 400-48T

POWER

• Supply Type	Redundant 3U 2+1 760 watt
• Input Voltage / Input Frequency	100-240 VAC (auto-switching) / 50-60 Hz
• Input Current	2.5A maximum at 100 VAC and 1.2A maximum at 240 VAC (maximum amps vs voltage varies linearly throughout this voltage range)
• Power Factor Correction	95%@110V, Full Load
• Power Consumption / Thermal	275 W (full configuration) / 940 BTU per hour (full configuration)

ENVIRONMENTAL

• Operating / Storage Temperature — English (Metric)	32° to 104° F (0° to 40° C) / -4° to 158° F (-20° to 70° C)
• Operating / Storage Humidity	20 to 90% non-condensing / 10 to 95% non-condensing

PHYSICAL

• Form Factor	3U industry-standard 19" rack
• Height x Width x Depth x Weight — English (Metric)	52" x 16.9" x 22" x 73 lbs full configuration (13.2 cm x 43 cm x 55.8 cm x 33 kg full configuration)

STANDARDS

• RoHS	Compliant
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