

iS316



3U, 16-BAY iSCSI RACKMOUNT STORAGE SYSTEM

KEY FEATURES

10-Gigabit Architecture

- Full wire-speed Ethernet
- Simple connectivity

Virtual Storage

- Virtual storage pools
- No RAID Pre-configuration
- Mixed RAID types per pool
- Online volume expansion
- Online RAID level migration
- Application aware volumes
- Mixed drive capacities
- Virtual volume rebuild
- Volume sizes up to 32TB

iSCSI Performance

- Jumbo Frame Support
- Full TCP/IP Hardware Off-load Engine (TOE)
- Up to 8 iSCSI host data ports
- Up to 880 MB/second throughput
- MPIO, MCS, LAG

Security Features

- CHAP Authentication
- VLAN Support
- Initiator ACL
- SSL Encryption
- Read-Only Volumes

APPLICATIONS

- Departmental applications
- Remote/Branch Office
- Disk Backup
- Web Servers
- Video Surveillance
- Data archiving
- E-mail servers
- Video editing

iS316 Storage System

The iStor iS316 is an easy-to-use, high-performance iSCSI storage system for the small and medium business owners. The iS316 system is available with either four or eight 1-Gigabit Ethernet data ports, or one 10-Gigabit Ethernet data port, all of which are based on a common 10G data-path architecture.



The Future of Storage

Until a few years ago, only the largest enterprises could provide their employees with on-line access to multiple Terabytes of information, because providing this capability represented hundreds of thousands of dollars in annual ownership and operating costs.

The iS316 provides this capability to a wide range of users by bringing the annual ownership and operating costs below \$1,000 per Terabyte. The storage can be accessed by all users who have access to it through the company's TCP/IP network. Your data is protected even if a disk drive fails, and it can be provisioned for large numbers of users through a simple, functional, easy to use user interface.

Easy to Use

Unlike most storage systems, the iS316 does not require any special training. Instead, menu-driven wizards with easy-to-understand language guide even novice system administrators through the set up and configuration process. Our "Virtual Storage" technology makes ongoing management just as easy. There is no longer a need to worry about the complexities of RAID Groups and LUNs associated with traditional storage systems.

Fits Into Your Storage Infrastructure

The iS316 chassis fits in a standard 19-inch rack and consumes 3U of rack space. When fully populated, the iS316 has enough storage capacity for nearly all of your storage needs. The iS316 can store up to*:

- 14,000 CD's
- 1,600 DVD's
- 400 Blue Ray Discs
- 10,000,000 X-Rays
- 48 years of surveillance video at typical security resolutions and frame rates

*(Based on using sixteen 2TB disk drives)

Redundant and hot-swappable power supplies and cooling fans that are accessible from the rear of the chassis make it easy to replace any failed hardware component while the system is operating, without impacting your quality of service or opening the chassis cover.

High-Performance Workgroup Storage

Connect to your storage via the Ethernet port found on all servers. Each of the host data ports allow direct connection a dedicated host server, or simply add an Ethernet switch if you need more. While small, the iS316 is based on the same technology used by Enterprise Data Centers. It provides enough performance to satisfy even the most demanding applications such as High Definition Video. In fact, it will outperform storage solutions costing up to 10X more, which means it's the best investment you can make in storage.

iS316

TECHNICAL SPECIFICATIONS



iStor Networks, Inc.[®]
STORAGE FOR YOUR NETWORKED WORLD™

Storage For Your Networked World

CONTROLLER	Single controller with up to 2GB of battery-backed cache memory
DRIVE TYPES	7200-RPM, 3½-inch or 2½-inch SATA drives (the 2½-inch drives require a third-party adapter)
SYSTEM CAPACITIES	16 SATA drive bays (connected to a vertical back-plane)
PERFORMANCE	80,000 IOPS Up to 440 MB/sec (4-port version) or up to 880 MB/sec (8-port version)
NETWORK INTERFACE	4 x 1Gbps iSCSI Data Ports (4-port version) 8 x 1Gbps iSCSI Data Ports (8-port version) 1 x 10Gbps iSCSI Data Ports (10G version) 1 x 10/100Mbps Management Port
SECURITY	CHAP Authentication, Initiator Access Control (ACL)
RAID LEVELS	0, 1, 1+0, 5 and JBOD
VOLUMES	Up to 1024
VIRTUAL STORAGE	Virtual storage pools (No RAID Groups) Mixed RAID types per storage pool Volume sizes up to 16TB Online volume expansion Online RAID level migration Application aware volume creation Mixed drive capacities Volume rebuild (only active volumes are rebuilt, not the entire disk, thereby accelerating rebuilds) Virtual volume rebuild (rebuilds volumes over multiple available drives to accelerate rebuilds)
VLAN SUPPORT	Up to 8 VLANs
DRIVE OPERATIONS	Drive roaming Down drive (migrates data off of drive for replacement) Micro-rebuild (prevents premature failing of good drive due to temporary unresponsiveness)
iSCSI SUPPORT	Compatible with all standards-compliant iSCSI initiators
OS SUPPORT	Windows [®] 2000/2003/2008, Red Hat & SuSE Linux, Mac [®] OSX, VMware ESX Server 3.5 and 4.0, IBM AIX-5, Solaris 10 (refer to the iStor inAble [®] matrix at www.istor.com for the latest list of supported hardware and software)
POWER REQUIREMENTS	Power supplies: 500 Watts each (quantity 2) AC voltage: 100-240 VAC, auto-switching Frequency: 47-63Hz Current: 8A RMS max at 115 VAC and 4A RMS max at 230 VAC Power consumption: 275 W (Full configuration) Thermal: 940 BTU per hour (Full configuration) Power Factor Correction: EN61000-3-2 (95% @ 110V, Full Load)
ENVIRONMENTAL	Operating Temp: 5° to 40° C / 41° to 104° F System Temp: -40° to 70° C / -40° to 158° F Operating Humidity: 0 to 95%, non-condensing Storage Humidity: 0 to 95%, non-condensing Cooling Airflow Required: approximately 100 linear feet per minute
PHYSICAL	Chassis Dimensions (excluding rack-mount ears and pull-out handles): 5.19" (13.2 cm) high x 17.25" (43.8 cm) wide x 21.63" (55 cm) deep Weight (with hard disk drives installed): approximately 64 pounds / 29.1 kg



Front View



Rear View (4-port version shown)

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