



Simple Storage, Something For Everyone



# Teras Ti3160

<http://www.teras.us.com>

## Scalable SAN & NAS 10 GbE, FC, and Infiniband Up to 16 TB of Storage

Teras Ti3160 is a scalable SAN storage platform, supporting a wide variety of protocols, networking standards, speeds and management methods. It is a robust yet simple-to-deploy 16-drive enclosure supporting both SAS and SATA disks with a web-based management system. Teras storage systems consolidate SAN (iSCSI and Fibre) and NAS on a single platform, scalable for higher levels of availability, capacity and performance.

### Ideal for:

- Disk-to-disk backup
- Archival storage
- Off-site replication
- Storage Consolidation
- Disk Imaging
- Snapshots
- Database Storage
- Thin Client Networks
- VMWare
- Direct-Attached Storage
- Disaster Recovery
- File Serving
- Simple and cost-effective
- Easily integrates with existing networks and SAN's
- iSCSI, Fibre-Channel, NAS, 10GbE, and Infiniband
- A wide spectrum of applications for any organization
  - Commercial, IT, Government, and Defense
  - Transaction Processing, Oracle, SQL Database, Disaster recovery, and Archiving and Backup
  - Scales well for entry-level to high-end

## Capabilities

- Up to 16 TB of capacity
- Intelligent Power Management
- Secure, Web-based Graphical User Interface
- Console Tools and Remote Access
- Performance Tuning Tools
- Task Manager and Scheduler
- NIC Bonding and Jumbo Frame Support
- Fibre Channel, 10 Gb Ethernet and Infiniband
- Proxy and IP-sec Support
- Hardware RAID 0, 1, 5, 6, 10, 50, and 60
- RAID Monitoring w/E-mail Notification
- 128 MB 72 hour battery-backed Cache
- Support for over 2 TB Volumes and up 16 TB (64-bit)
- Multiple Active Snapshots per Volume (COW)
- Online Capacity Expansion
- Platform Monitoring w/ E-Mail Notification
- S.M.A.R.T., SNMP v2, v3, Performance/Access Logs

### iSCSI Capabilities

- IP Address Restrictions for Targets
- CHAP User Management
- MPIO Support / Auto Failover
- Volume Replication Internally and Externally

### NAS Capabilities

- Windows, Linux, Unix, Mac OS
- SMB/CIFS, FTP, sFTP, NFS v3, v4
- Active Directory & LDAP Support
- Backup & Antivirus Integration
- Backup Agent Support for Veritas, EMC Dantz, CA BrightStor

Available  
Through  
GS-35F-139S



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## iSCSI SAN Technology

iSCSI has led the way to broad adoption of SAN technology, delivering the benefits of storage-attached networks to a much broader range of customers than ever before. Implementing a SAN topology using commodity-class Gigabit Ethernet brings down the cost of an entry-level SAN solution. Now businesses of all sizes can enjoy the benefits of storage virtualization and consolidation.

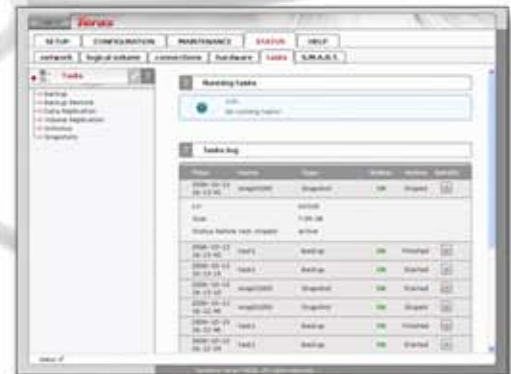
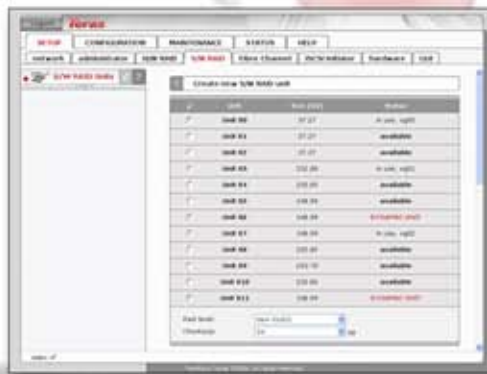
SANs are networked storage pools which can be divided and provisioned to clients systems. They are different from file servers because they provide raw-block level storage rather than abstracting requests through a higher-level software protocol. Many applications require low-level storage due to special requirements of one or more specific file systems and highly intensive I/O.

SANs allow administrators to expand storage for a large number of servers or clients without physical maintenance and downtime or additional local hardware. iSCSI SANs stack up well against Fibre-based SANs,

implementing the SCSI protocol using common TCP/IP networks. Gigabit Ethernet is now common on today's PCs, largely eliminating the need to buy additional discrete, high-cost add-in adapters such as Fibre Channel HBAs. IP networks are much more broadly deployed and well understood by more IT professionals than Fabrics.

The budget savings gained by using a much cheaper interconnect can be re-distributed to creating a much more resilient network with larger storage pools. High-availability configurations may offer greater levels of redundancy than Fibre-attached storage per budget due to lower price points, complimented by the lower cost of connectivity.

Teras iSCSI SANs make use of SAS and SATA drives. SAS drives provide a strong disk subsystem for high-performance applications requiring intensive I/O, while near-line SATA disks offer far greater capacity and features friendly to large disk array environments.



Web User Interfaces (Network Connections, Software RAID, and Task Scheduler)

## Product Ordering Codes

Model	Type	SATA	SAS
Ti500mt	Desktop	5 TB	--
Ti1040	1U	4Tb	1.2TB
Ti1040-W**	1U	4TB	1.2TB
Ti2120*	2U	12TB	3.6TB
Ti3160*	3U	16TB	4.8TB
Ti4240*	4U	24TB	7.2TB
Ti100op	Portable	10TB	3TB
Td3010	3U	10TB	3TB

\* - Indicates availability of an HA model (Teras TiXXXX-HA). These Teras rackmount models provide disk, communication and power redundancy. '-HA' versions feature a unique dual-controller design making the individual unit significantly more fault-tolerant. These high-availability configurations prevent service downtime in the event of a major component failure.

\*\* - Based on Windows Unified Data Storage Server 2003

Available  
Through  
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