

DinoStor TapeServer

An innovative appliance that adds Ethernet-based sharing and advanced encryption capabilities to tape backup devices.



DinoStor TapeServers bridge SCSI and FC tape devices to Gigabit Ethernet so that NDMP-capable NAS servers can share tape devices via Ethernet. By optionally encrypting the backup data, TapeServers also prevent data theft if tapes are lost.

Why share tape drives?

In a data center with several NAS servers, tape drive sharing reduces the number of drives necessary for backup and makes the backup operation more reliable.

Why encrypt backup data?

If an encrypted backup tape is lost, unauthorized parties cannot make sense of the data on the tape. Tape loss \neq stolen data!

Why use DinoStor TapeServers for drive sharing and tape encryption?

TapeServers are easy-to-use plug-and-play appliances that can be configured in a few minutes. They share drives via Gigabit Ethernet without any degradation of native backup performance.

By using universally accepted and open standards such as NDMP for drive sharing and AES for encryption, DinoStor TapeServers completely eliminate vendor lock-ins and the interoperability difficulties often encountered with proprietary storage networking products.



Consolidate your tape libraries to reduce cost and improve reliability

Dedicating an exclusive tape device to every NAS server in a data center is grossly inefficient—akin to dedicating a local printer to every desktop computer in an organization. Not only is it expensive, but if a printer fails, the connected desktop can't print. DinoStor TapeServers are to tape devices what network print servers are to printers. They reduce the number of tape drives you need and ensure that isolated tape drive failures don't result in failed backups.

Avoid data theft and stay in compliance

Encrypting the data written to tape ensures that no data is compromised if a tape is lost or stolen. Whether it be your internal policy or a compliance requirement to encrypt, DinoStor TapeServers can encrypt the backed up data using AES, the security standard adopted by organizations around the world, including the U.S. federal government.

Protect NAS servers from unscheduled downtime and maintenance

When using DinoStor TapeServers, a NAS server accesses tape drives via Gigabit Ethernet. There is no longer a direct connection between the NAS server and tape drive. Eliminating direct SCSI connections to tape drives results in improved NAS uptime because misbehaving tape drives can't bring the NAS server down.

Enhance NAS server performance

While it may be possible to use a tape-attached NAS server as a conduit for backing up other servers on the network, the resulting performance degradation of the conduit NAS server often renders it useless for serving files. By using the DinoStor TapeServer instead, you reclaim the full capability of that conduit NAS server and allow it to do its intended job: serve data, not serve the backup operation.

Realize greater data-center safety and convenience

At a fraction of the cost of FC-based backup networks, DinoStor TapeServer's Gigabit Ethernet-based drive sharing gives the backup network a more flexible spatial configuration than distance-limited SCSI can. There is no need for the NAS servers to be in close proximity to the backup library. The increased distance between the servers and backed up data greatly limits the ill effects of catastrophes in data centers.

Specifications

Operating system	DinoStor™ OS				
NDMP	Versions 2, 3, and 4 (auto-negotiable)				
Encryption	AES 256-bit				
Models	GigE Ports	SCSI Ports	FC Ports	Encryption	Drive Limit
TS222L	2	2	—	No	2
TS242L	2	2	—	No	Unlimited
TS241F	2	—	1	No	Unlimited
TS444L	4	4	—	Yes	Unlimited
TS442F	4	—	2	Yes	Unlimited
Network interface	Copper 10/100/1000 BASE-T with jumbo frame support				
Tape library interface	SCSI: Ultra 320 LVD; 68-pin VHDCI connector FC: 2Gb multimode; LC-style connector				
Throughput	Up to 120 megabytes per second per network port				
Management	Front panel LCD Browser-based GUI Secure shell (SSH)-based CLI				
Network protocols	DHCP, DNS, and NTP clients				
Monitoring	Web browser, SNMP, syslog, e-mail				
Operating temperature	10°C to 35°C (50°F to 95°F), 20% to 80% relative humidity, noncondensing				
Power	100-240V AC 50/60 Hz, 190 watts (nominal)				
Dimensions	H: 43 mm (1.7"), W: 438 mm (17.2"), D: 394 mm (15.5")				
Weight	8.4 kg (18.5 lbs)				
Regulations	Safety: UL60950-1, CAN/CSA C22.2 N° 60950-1, CB Scheme IEC60950-1 with all national deviations EMC: FCC CFR47: Part 15 Class A, ICES-003, CE, CISPR22, EN55022, EN55024:1998, CISPR24:1997				

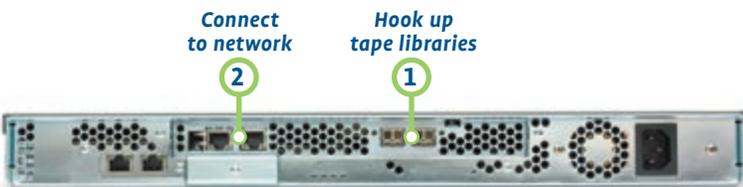
Specifications are subject to change without notice.

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Easy as 1-2-3

You need no special training or additional hardware to perform backups using TapeServers. With just three quick steps, you are ready to back up your entire network.



3 Enter your settings



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