

TERA NAS HD



SnaZio* TERA NAS HD is a 32-bit RISC processor Hardware SATA RAID 0,1 & 5 ready Network Attached Storage server comes equipped with Gigabit Ethernet. It's wireless networking ready and comes with DHCP, Print Server and USB 2.0 feature set. The product offers a prosumer level solution for Digital Storage, File Sharing, Backups and Media Streaming. Targetted for a wide range of applications, it allows you to securely store, manage and retrieve over a Tera byte of data and digital media contents serving clients on multiple platforms including Windows, MAC, Linux, UNIX and FTP environments. Its embedded server requires no license or additional third party software. With multiple RAID level configuration, you can be ensured a high level of protection, performance and capacity utilization. Tera NAS comes with comprehensive features, easy to use web-based Management Console which provides easy access to the entire NAS resources.

With SnaZio* Tera NAS HD, its easy to setup a complete Media Streaming solution catering to HD Home Theatre and Post-Production needs to manage very large High Definition and High Fidelity assets. When used with SnaZio* Net DVD Cinema HD player, it allows user to stream their digital contents to their Home Theatre Plasma or HDTV Projectors in high resolution formats from MPEG-1/2/4 to HDV.

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Ideal for HD Post-Production houses, SnaZio* Tera NAS provides RAID 5 reliability to meet the demanding storage needs of precious production files required to facilitate critical post production work flow. With it's dynamically resizable storage pool supporting Serial ATA and multilevel RAID, it's the best choice for archiving your media contents in one central location.

SnaZio* Tera NAS HD provides a user friendly high performance alternative to traditional server which enables you to meet all your requirements – from a data center to a Complete Digital Home Theatre Hub or a High Definition Video post production house....

SnaZio* Tera NAS Features:

- 32-bit RISC Network Storage Processor
- 64-bit DDR-SDRAM interface
- Feature Rich Embedded Operating System
- Four Serial ATA
- Hardware RAID 0/1/5 with Hot Spare option
- Windows, MAC, Linux and Unix Compatible
- Built in HTTP/HTTPS and FTP servers
- Status, Alarms and notification
- User/Volume Management
- Wired/Wireless networking
- DHCP and Static IP support
- Two USB 2.0 Ports (For printers, wireless, UPS)
- UPS Monitoring
- Quick Wizard Setup
- Supports five languages
- Compact pedestal design
- Lower power consumption and silent operation



The Best Among NAS Devices:

Powerful Operating System

Driven by a powerful Operating System, SnaZio® Tera NAS HD includes embedded operating system compatible with Windows, MAC, Linux and Unix. The feature comprehensive operating system provides enterprise management from a single and easy to use console for faster deployment and lower TCO. The Operating System resides in on-board flash allowing replacement of the entire array easily.

RAID Data Protection

SnaZio® Tera NAS HD supports hardware RAID 0 (Striping), RAID 1 (Mirroring) and RAID 5. Hardware-driven RAID system in SnaZio® Tera NAS HD provides much better performance compare to Software-driven systems in other NAS devices. The Operating system ensures the proper volume configuration and also provides scalable RAID options with different levels.

Assigning Hot Spare

SnaZio® Tera NAS allows you to designate a hard disk drive(s) as a global hot spare. This feature minimizes the amount of time your RAID volume spends in degraded mode after a disk failure. With hot spare, as soon as disk dies, data from that disk is rebuilt onto the spare and the Tera NAS HD volume returns to a redundant state. This will reduce the time till you replace the disk and ensure maximum data protection.

Background RAID Sync

RAID sync process might take several hours before you can use the replaced volume. With SnaZio® Background RAID process, there is no need to wait for hours. It's all done in background and you can use the volume right away after replacing it. Tera NAS HD makes things easier and gets you going.

Smart Sync Resume

A feature that really makes life easier. RAID initialization or parity resync process can go upto several hours and what about electricity shutdown or power failure at this stage. With the Smart Sync Resume in SnaZio® Tera NAS HD, the sync process continues from where it left off, when the Tera NAS was shutdown.

Schedule Snapshots

The Snapshot feature works using "Copy-on-write" technique and captures directory structure at a particular moment in time and preserves file attributes and contents with pointers mapping to this location. The modification is saved on extra space. SnaZio® Tera NAS HD also allows you to schedule a snapshot of the volume at a specified interval. Snapshots, allowing consistent backup to be performed by making an exact read-only copy of a logical volume, frozen at some point in time, while applications continue to modify data on the logical volume. The benefits of snapshot feature in real-life are

- ✱ Snapshot feature allows instant restoration of accidentally deleted files. Because the snapshots are created instantly online, the restore process is also extremely fast since no time is spent finding the backup file.
- ✱ Minimizes overhead while saving multiple system images. During Snapshot creation, the CPU load is held to a minimum
- ✱ Allows replacing virus-affected files by referring to the snapshot taken at midnight and restoring the version of the files as of midnight
- ✱ Allows taking instant backup of volume by copying the snapshot rather than live shares being changed.

Assigning Disk Quota

SnaZio® Tera NAS HD allows you to set disk quota by either limiting the disk usage on a per-share basis or per-user or group basis. Now it's quite easier to make sure that your kids do not fill up the entire space with their downloaded games or your multimedia students with their videos. Assigning disk quote really helps to fit this device in either educational institutions or in advertising agencies or Post-Production houses where each group of people wants designated space.

Setting Security, the most out of NAS

SnaZio® Tera NAS HD supports three security modes offering a complete solution from Home to Medium-sized office and corporate environment.

Multiple Users Addition with private shares

Adding a bunch of users is a breeze in SnaZio® Tera NAS HD. Our user mode security offers the option of easily adding 1, 5 or 400 users instantaneously. Just create a user list in Excel, export it as a CSV file and upload to the Tera NAS HD. Won't it be troublesome to assign private share to these 400 users, Tera NAS HD provides a right solution by automatically creating a private share on first log-in from each user.

Writeable HTTP Shares

The powerful operating system provides Writeable HTTP shares. With this feature, anyone can now create, modify and delete files using a simple web browser. This feature allows for easy and safe file sharing over the Internet as well as easily setting up an Intranet site out of a share

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Data Journaling

SnaZio® Tera NAS HD provides state of the art data journaling ensuring data integrity. This fault-resilient system continuously writes updates to directories and bitmaps to a serial log on disk. In the event of a system failure, our journaling technology ensures that the data on the disk has been restored to its pre-crash configuration. It also recovers unsaved data and stores it in the location where it would have gone if the computer had not crashed, making it an important feature for mission-critical application.

DHCP Ready

SnaZio® Tera NAS HD is fully compatible with DHCP. There is no need to assign static IP address, DNS or gateway. Everything will be done automatically. SnaZio® Tera NAS HD can also act like a DHCP server if there is no in your existing network.

Online Updates

SnaZio® Tera NAS HD comes integrated with online update support. No more going to a website, downloading a file, and uploading it to a device. Click once to check if there's an update, and click a 2nd time to perform the update. That's it.

Wireless Ready

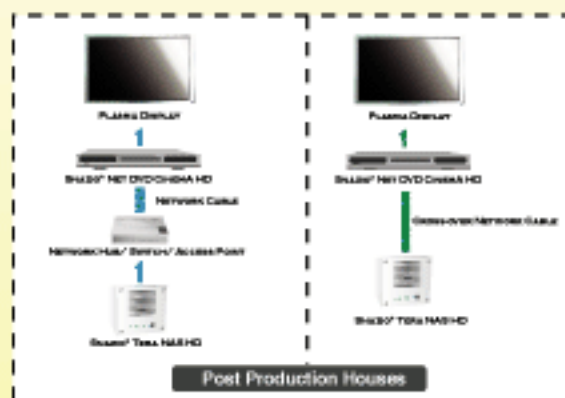
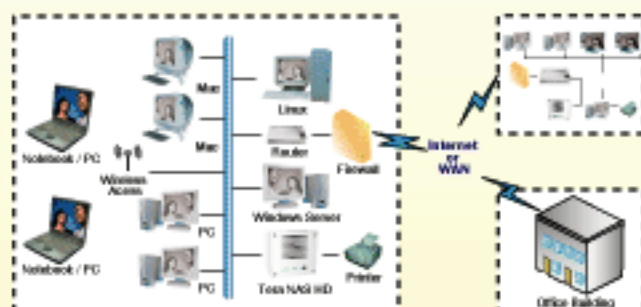
SnaZio® Tera NAS is a wireless ready solution. Simply connect a USB wireless controller and the device can now be wireless, all due to its feature rich operating system that has the tendency to either work on wired or wireless networks.

Connect & Manage As Many NAS Devices

Comes bundles with SnaZio® Tera Station, the NAS browsing utility not only allows you to keep track of all the connected SnaZio® NAS devices but also allows you to monitor the your volumes, disks, temperature, fan, power and UPS.

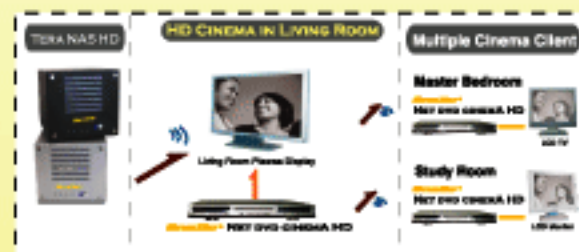
SnaZio® Tera NAS HD Applications

Small & Medium Business: Designed with the most innovative Network Storage Processor (NSP), SnaZio® Tera NAS HD is a cost effective high performance Network Attached Storage (NAS) for SMB and remote offices who need to lower storage cost ensuring data reliability and faster performance. In an easy-to-deploy architecture, SnaZio® Tera NAS offers instant storage with hardware RAID 5 four hot-swap SATA disks with 1 Terabyte (1,024 GB) of hot swap storage capacity.





Post Production Houses: SnaZio® Tera NAS HD is an answer to all the video post production people who want to deploy a central storage solution and integrate it with their editing and playback workflow. In today's competitive environment, studio people's major concern is shifted to facilitating collaboration –sharing video among in-house editing team and that's where the Tera NAS provides the whole solution. It's a turnkey solution for high Bandwidth storage like High Definition Videos. Post Production people specially video editors have storage requirements ranging from 144 GBs to several TBs. The idea behind SnaZio® Tera NAS is to provide central storage space and to give several editors access to same material for production.

Digital Home Cinema: SnaZio® Tera NAS HD is a complete Media Streaming solution catering Consumer and Post-Production needs for High Definition videos. When used with SnaZio® NetDVD Cinema HD, it allows to stream videos to your living room in almost all the video formats including MPEG-1, MPEG-2, MPEG-2 HD, MPEG-4, DivX, Xvid, WMV, WMV9 HD and DivX HD. Tera NAS HS is fully compatible with SnaZio® Net Cinema software to stream videos to SnaZio® NetDVD Cinema HD. Your Digital Home can never be completed without it....



Video Surveillance: SnaZio® Tera NAS HD addresses a lot of problems being faced by video surveillance industry which has been dramatically increased in the year 2005. With upto 1 TB of disk space, large amount of short term and long term video surveillance data can be stored near line for near instant access ensuring the data reliability using RAID 5 level. It's a perfect match for video surveillance industry.

Specifications	SnaZio* TERA NAS HD	
Model	TERA NAS HD NW1200 	TERA NAS HD PRO NW1250 
SNMP (for Email alerts)	----	YES
Jumbo Frame Support	----	YES
Network Security	(Share, Group) Level	(Share, Group, Domain) Level
NFS	----	YES
System Specifications		
Processor	32-bit RISC Network Storage Processor	
RAM	128 MB (Supports DCR memory for easy upgrade)	
Drive Interface	4 * Serial ATA-150 Hot Swap (48-bit) LBA for drive capacities up to 400GB)	
Additional PCI	32-bit 33 MHz host interface for PCI add-on card	
Supported RAID Levels	RAID 0, 1, 5	
RAID Management	Standby Hot-Spare, Smart Sync Resume, Background Sync, Life-Support Mode	
Volumes Management	Journal & Non-Journal Mode, User/Group/Share level quotas, Snapshot with scheduling	
System Management	Web-based Administration for server and network configurations, Enclosure Monitor, Email Alerts, Integrated Update Agent for auto update firmware, SNMP Monitoring and Traps	
Supported Languages	English, Japanese, Simplified Chinese, Traditional Chinese, Korean	
Supported Web Browsers	Internet Explorer 6.0+, FireFox 1.0, netscape Navigator 7.0+, Safari 1.22+	
Network Specifications		
Network Connection	LAN, Wi-Fi (Wireless connectivity is enabled in firmware. Required additional USB Wireless Router)	
Network Interface	(10BASE-T) IEEE 802.3, (10BASE-TX) IEEE 802.3u, IEEE802.11g / IEEE802.11b	
Port/Connector	4RJ-45 8 pin 10Mbps / 100Mbps (auto sensing)	
No. Of Ports	1	
Transmission Speed	10 / 100 / 1000 Mbps	
Access Method	CSMA / CD	
Network Config Options	DHCP (Client & Server Modes), Manual IP Address	
Network Security Options	Share-level passwords, Group Authentication, Windows Domain, Active Directory Services (ADS), Secure Socket Layer (SSL), Windows Access Control List (ACL), Encrypted Network Logins	
Network File Services	CIFS/SMB for Windows & MAC OS X, AFP for MAC OS 9, NFS v2 and v3 for Linux and UNIX, HTTP/HTTPS for web browsers, Anonymous FTP	
Network Transport Protocols	TCP/IP, AppleTalk, FTP	
Network Client Types	Microsoft Windows 98/ME/XP/NT4.0/2000/2003 Macintosh OS 7.x, 8.x, 9.x, 10.x Unix/Linux	
Streaming Media Format		
Video Format	MPEG-1, MPEG-2, MPEG-4, DivX, Xvid, RMP4	
Audio Format	MPEG-1 Layer 1 / 2 / 3 (MP3), OGG vorbis, AC3, MPEG-4 AAC (Low complexity, 5.1 channel), WMA9, PCM	
Audio Digital / Surround Format	THX, DTS, Dolby Digital, WMA9 Pro, AC3 and Linear PCM at 16/20/24 bit with 44.1/48/96 KHz	
Image Format	4RJ-45 8 pin 10Mbps / 100Mbps (auto sensing)	
TV System	NTSC / PAL compatible	
Supported Resolutions For Media Streaming		
Video Resolution	Upto 1920*1080 (1080i)	
Multiple DVI Resolution	480p, 720p, 1080i, 640*480, 800*600, 1024*768, 852*480 (Plasma) (p-progressive, i-interleaved) @ 50/60 Hz. Custom DVI resolutions are available via firmware update	
Multiple Component Resolution	480i, 480p, 720p, 1080i (60Hz); 576i, 576p, 720p, 1080i (50Hz);	
Picture Resolution	Upto 2048*1532	
USB Connectivity		
Interface	USB 2.0 Hi-Speed	
Connector	Type-A	
Number Of Ports	2	
Data Transmission Speed	Max: 480 Mbps	
Supported USB Devices	Printers, UPS, Wireless Network Adaptors	
Basic Specifications		
Operating Environment	0 - 40 degrees	
Humidity	20 -80%	
Form Factor	Pedestal	
Voltage	110 / 220 VAC at 50/60 Hz	
Current	3.0A at 200-240 VAC, 5.0A at 110-127 VAC	
Power Consumption	Less than 100W with HDDs	
Physical Specs	Height 8.0 inches (20cm), Width 8.5 inches (22cm), Depth 10.5 inches (27cm), Weight 9 pounds (4Kg W/o HDD)	
Media Server Software Platform and Updates		
Media Server Software	SnaZio* Net Cinema (operates as stand alone server)	
Firmware Updates	Periodic Updates for OS will be available online	

NOTE: Streaming format and media resolutions support is inside the SnaZio* Media Server software when used with SnaZio* Net DVD Cinema HD player

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