

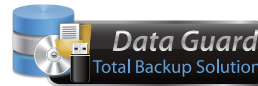


N4510U PRO

Reliable 4-bay 1U rackmount solution for SMB and SOHO



NAS data can now be burned directly to CD, DVD, and Blu-ray discs with Data Burn, this hassle-free module makes burning data to a disk effortless. In addition, burning ISO image file is also supported. Whether you're managing audio, media or essential files; Data Burn copies information fast while significantly reducing waiting time. The process of burning file to disk is now easy and smooth with Data Burn module.



Data Guard backup solution is the ultimate software as it provides both local and remote parts. Currently, data is backed up across RAID volumes, external USB drives, and eSATA. In addition, Data Guard uses innovative technology to sync data across the network to other NAS and servers. More importantly, Thecus® Data Guard is the total backup solution which makes managing NAS user-friendly and convenient.



The next generation of connectivity is here with speeds 10x faster than USB 2.0. Whether connecting digital cameras and smart phones, backing up large external hard drives, or extending the capacity of your NAS, USB 3.0 will make sure it's done in no time at up to 5 Gbit/s. Backwards compatibility adds the connectivity of a world full of USB 2.0 and USB 1.1 devices to get the best combination of speed and universal access.



Thecus' innovative hardware helps prevent failures. But sometimes you have to protect the NAS against itself. Adding an antivirus to the already comprehensive software bundle will provide the necessary software protection by scanning the files on your NAS and defending it against possible threats. McAfee is the world's largest dedicated security technology company and shares Thecus' spirit of dedication and quality. By establishing a strong partnership with them, Thecus will allow users the benefit of McAfee's powerful software on their NAS entirely for free.



The private and public clouds meet with Thecus' new DropBox, Amazon S3 and ElephantDrive cloud backup functionality! Guard your data with RAID at home and an additional level of protection in the Cloud. Just drag and drop files into the folder on your NAS and access them on any computer or mobile device with DropBox, Amazon S3 or ElephantDrive.



Make your NAS into the ultimate multimedia hub! The N4510U PRO HDMI output allows you to connect your NAS directly to your TV for device management.

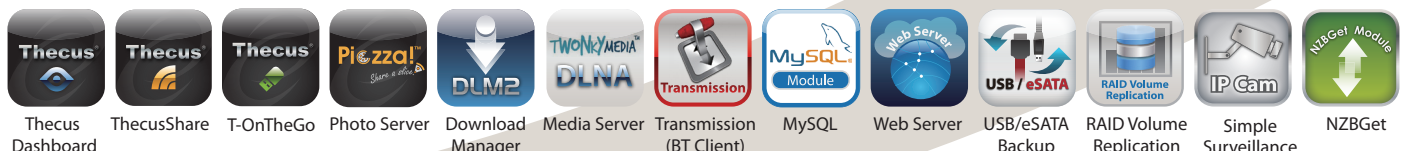


Get the most out of your storage space with the extreme speed of iSCSI and the efficiency of iSCSI thin provisioning. Connect through iSCSI for the fastest data transfer speeds available and make wasted disk space a thing of the past with thin provisioning's flexible storage functionality.



When it comes to data management, Thecus NAS truly let you have it your way. Create multiple RAID volumes each supporting different RAID modes including RAID 0, 1, 5, 6, 10 and JBOD for your own balance of performance and data protection. Should a hard drive malfunction occur, changing one is simple thanks to online RAID migration and expansion, hot spare, and auto rebuild.

Add-on apps



N4510U PRO

Specifications

Hardware Platform

Processor

- Intel® Atom™ D2701 (2.13GHz Dual Core)

System Memory

- 2GB DDR3

LAN Interface

- RJ-45x2: 10/100/1000 BASE-TX Auto MDI/MDI-X
- WOL supported

USB Interface

- USB 2.0 host port x4 (back x4)
- USB 3.0 host port x2 (front x2)

LCM Module

- LCM display
- 4 buttons (ENTER, ESC, UP, DOWN)

SATA DOM

- 1GB

HDMI Output

- HDMI port (back x1)

VGA Output

- VGA port (back x1)

Audio

- MIC input, Line input, Audio output

Disk Interface

- 4 x SATA for internal
- 1 x eSATA for external

Power Supply

- 200W Power Supply (N4510U PRO-S),
- 250W Redundant power supply (N4510U PRO-R)

Thermal/Fan control

- Thermal sensor on processor temperature

System Clock

- Battery-backed up system clock

Power Management

- Auto power on after shutdown due to power loss

Buzzer

- Adjustable frequency alarm

Buttons

- Power button
- LCM button
- Locator button
- Mute button while system alert
- System reset button (Hardware)

Environment

- Temperature: 5°C to 40°C
- Humidity: 0 ~ 80 % R.H. (Non-condensing)

Chassis

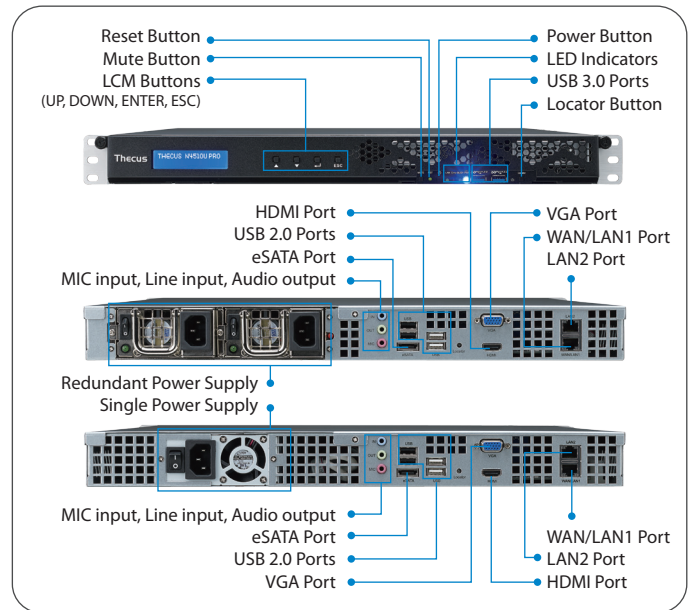
- 4-Bays 1U Rackmount

Dimensions (mm)/(inch)

- Single power supply: 44 x 432.5 x 492 mm (1.73 x 17.03 x 19.37 in)
- Redundant power supply: 44 x 432.5 x 552 mm (1.73 x 17.03 x 21.73 in)

Certificates

- CE/FCC/C-Tick/VCCI/BSMI
- RoHS
- WEEE
- VMware, Citrix



Software Functions

RAID

- RAID Modes: RAID 0, 1, 5, 6, 10 and JBOD
- Auto-rebuild: Supported
- Hot-swap: Supported
- Hot Spare: Supported
- Online RAID Migration: Supported
- Online RAID Expansion: Supported
- RAID Volume Encryption: AES256bit

Disk

- Power Management: Available spin-down while idle setting
- Bad Block Scanning: Supported
- SMART Info: Supported
- SMART Test: Supported
- Disk Roaming: Supports volume-based roaming to other Thecus NAS

Network

- Configuration: Fixed IP address, dynamic IP address
- Transport Protocols: TCP/IP/Appletalk
- File Protocols: SMB/CIFS, HTTP/HTTPS, FTP, NFS v4, AFP
- Link Aggregation: Load balance, Failover, 802.3ad, Balance-XOR, Balance-TLB, Balance-ALB, Broadcast
- TCP/IP: IPv6 & IPv4
- DDNS: Supported
- SSH: Supported
- UPnP: Supported
- UPnP Port forwarding: Supported

System status

- System Monitor: Monitoring CPU, memory, network utilization and protocols access user count
- Syslog Management:
 - Send syslog to assigned location
 - Act as syslog server to receive log info from other systems

Data Access

- Client OS Support: Windows XP and after, Windows Server 2003 and after, UNIX/Linux, Mac OS X
- FTP: Built-in FTP server with bandwidth control
- Secure FTP: Built-in secure FTP server with bandwidth control
- TFTP: Users can download and upload files with TFTP programs
- Download Manager: BT download (via Transmission module), NZB download (via NZB module)

Printer Server (IPP):

- Supports USB printers
- Supports a wide range of IPP printers
- Client can manage print tasks (list/delete) via web user interface

Data Backup

- Client Incremental Data Backup: Acronis True Image (OEM version)
- Client System Disaster Recovery: Acronis True Image (OEM version)
- Client Side Backup Software: Thecus Backup Utility (Windows/Mac OS X)
- Data Burn:
 - Create files to ISO image and burn to optical disc
 - Create files to ISO image
 - Read ISO image from optical disc and write to NAS
- Mac OS X Time Machine: Supported
- Data Guard: Remote Backup/Local Backup

Block Level Access

- iSCSI Target/Initiator: Supports Microsoft/Mac OS X/Linux initiators and Thecus NAS targets
- iSCSI Thin Provisioning: Supported
- MPIO: Supported
- MCS: Supported
- Clustering: Supported
- SCSI3 persistent group reservation: Supported

Power Management

- Scheduled Power On/Off: Supported

Volume Management

- Multiple RAID: Supported
- Multiple File System Selectable: EXT3/EXT4/XFS

Multimedia Support

- iTunes Server: Supports AAC, MP3 w/ID3 tag and WAV
- Piczza!™ Web Server (via module):
 - Supports GIF, JPG (JPEG), BMP and PNG
 - Supports EXIF display
 - Supports slide show
- Media Server: Supports uPNP AV streaming protocol

User Authentication

- Local User: Supports built-in user accounts
- Local Group: Supports built-in user groups
- Windows ADS: Supported
- LDAP: Supported
- Access Guard: Supports Black & White list/IP Filter

Cloud Backup

- DropBox: Supported (via module)
- ElephantDriver: Supported (via module)
- Amazon S3: Supported

File System

- Type: Journaling File System
- Language Support: Unicode Support
- Authorization (ACL): "Read", "write", or "deny" privileges to individual users or groups in folders and sub-folders
- User Quota: Supported

Administration

- User Interface: Web-based user interface supports English, Traditional Chinese, Simplified Chinese, Japanese, Korean, French, German, Italian, Spanish, Russian, Polish and Portuguese
- Utility Program: MS Windows Setup Wizard, Supports Windows XP and after, Windows Server 2003 and after, Mac OS X Setup Wizard
- Email Notifications: Sends system messages via email to the system administrator
- SNMP Trap: System information trap out

Mobile Applications (iOS/Android)

- T-Dashboard™: Mobile monitoring and administration (via module)
- T-OnTheGo™: Upload, download and stream multimedia

Capacity Expansion

- Stackable: Can extend for 5 additional iSCSI volumes from other Thecus NAS

Others

- Recycled Bin: Supported
- Web Disk: Supported (via module)
- Web Server: Supported (via module)
- ISO Mount: Supported
- IP Cam Surveillance: Supports up to 5 IP cameras (via module)
- Auto Module Installation: Thecus's module server automatically provides the latest modules and updates through the user interface
- Local Display: X-Window via HDMI output



*Design and specifications are subject to change without prior notice.

Thecus® Thecus®, Creator in Storage
www.thecus.com

Thecus® HQ
15F, No.79, Sec. 1, Sintai 5th Rd., Sijih Dist, New Taipei City 221, Taiwan (R.O.C.)
Email: sales@thecus.com
Facebook: www.facebook.com/Thecus
Forum: forum.thecus.com
Twitter: twitter.com/Thecus_Storage
RSS: www.thecus.com/rss_news.php
Youtube: www.youtube.com/thecusstorage

Thecus® NL B.V.
Marinus Dammeweg 7, 5928 PW Venlo, the Netherlands
Email: thecus_nl@thecus.com
Tech support: esupport.thecus-eu.com
Support e-mail: support_nl@thecus.com

Thecus® Germany
Siemensstr. 17, 76275 Ettlingen
Email: support@thecus-service.de
Tech support: esupport.thecus-eu.com

Thecus® U.S.A., Inc.
487 Montague Expressway, Milpitas, CA 95035, USA
Email: support@us.thecus.com
Tech support: ussupport.thecus.com/esupport