



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.



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.



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.



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.



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.



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.



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.



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

















Dashboard

ThecusShare T-OnTheGo Photo Server Download Media Server Transmission Manager

(BT Client)

Backup

Simple Replication Surveillance

www.Thecus.com

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)

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:
- 1.Send syslog to assigned location 2.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)
- Thecus
 - Thecus[®], Creator in Storage www.thecus.com

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Thermal/Fan control

- Thermal sensor on processor temperature System Clock
- Battery-backed up system clock
- 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
- WFFF
- VMware, Citrix
 - Printer Server (IPP):
 - 1. Supports USB printers
 - 2. Supports a wide range of IPP printers
 - 3. Client can manage print tasks (list/delete) via web user interface

Reset Button

Mute Button

LCM Buttons

HDMI Port

USB 2.0 Ports

MIC input, Line input, Audio output

Redundant Power Supply

Single Power Supply

MIC input, Line input, Audio output

eSATA Port

eSATA Port

VGA Port

Type: Journaling File System

User Quota: Supported Administration

and Portuguese

Capacity Expansion

other Thecus NAS

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)

Local Display: X-Window via HDMI output

Others

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USB 2.0 Ports

File System

(UP, DOWN, ENTER, ESC)

Power Button

LED Indicators

USB 3.0 Ports

Locator Button

VGA Port

LAN2 Port

WAN/LAN1 Port

WAN/LAN1 Port

LAN2 Port

HDMI Port

Po Basersa

Language Support: Unicode Support
 Authorization (ACL): "Read", "write" or "deny" privileges to

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 autom administrator

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

Stackable: Can extend for 5 additional iSCSI volumes from

Auto Module Installation: Thecus's module server automatically provides the latest modules and updates through the user interface

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

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the system administrator • SNMP Trap: System information trap out Mobile Applications (iOS/Android)

individual users or groups in folders and sub-folders

- **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)

iSCSI Thin Provisioning: Supported MPIO: Supported

Power Management • Scheduled Power On/Off: Supported

MCS: Supported

Volume Management

3. Supports slide show

Amazon S3: Supported

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Cloud Backup

hecus® NL B.V

Data Burn: 1.Create files to ISO image and burn to optical disc 2.Create files to ISO image

3.Read ISO image from optical disc and write to NAS Mac OS X Time Machine: Supported Data Guard: Remote Backup/Local Backup

Clustering: Supported SCSI3 persistent group reservation: Supported

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

Multimedia Support
iTunes Server: Supports AAC, MP3 w/ID3 tag and WAV
PiczzaI[™] Web Server (via module):
1. Supports GIF, JPG (JPEG), BMP and PNG
2. Supports EXIF display

Media Server: Supports uPnP AV streaming protocol
User Authentication

LDAP: Supported Access Guard: Supports Black & White list/IP Filter

Local User: Supports built-in user accounts Local Group: Supports built-in user groups Windows ADS: Supported

DropBox: Supported (via module)

ElephantDriver: Supported (via module)

Block Level Access • iSCSI Target/Initiator: Supports Microsoft/Mac OS X/Linux initiators and Thecus NAS targets