



# TopTower N6850

## The World's No.1 Professional NAS



**Data Burn**  
CD/DVD/Blu-Ray

Thecus® NAS provides connection for USB and slim CD-ROM; users have the choice to install two types of optical disc drive to their Thecus storage device. 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**  
Total Backup Solution

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.



**High Definition Media Output**

Make your NAS into the ultimate multimedia hub! The N6850's HDMI output allows you to connect your NAS directly to your TV for device management.



**Touch Panel**

Seeking for an advanced monitoring and user flexibility screen? Touch Panel display technology offers top-quality advantages when integrated in a NAS. With clear navigation buttons: back, next, enter and escape, Touch Panel is designed for any type of user. Furthermore, not only can users view NAS status but can interactively control and change settings with a simple touch. From locating IP address, rebooting, starting link aggregation and more, Touch Panel offers users more control and flexibility.



**Antivirus**  
Powered by McAfee®

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.



**Cloud Backup**  
DropBox/ElephantDrive/Amazon S3

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.



High-end data centers often need a level of speed that today's average Internet cannot provide. This Thecus NAS is 10Gb Ethernet ready to satisfy the toughest needs of today and tomorrow.



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.

## Add-on apps



Thecus Dashboard



T-OnTheGo



Photo Server



Mail Server



Media Server



Transmission (BT Client)



MySQL



Web Server



USB/eSATA Backup



RAID Volume Replication



Simple Surveillance



NZBGet

# TopTower N6850

## Specifications

### Hardware Platform

#### Processor

- Intel® Pentium® G620 2.6Ghz

#### System Memory

- 2GB DDR3

#### LAN Interface (PCI-e)

- RJ-45x2: Intel 82574L 10/100/1000 BASE-TX Auto MDI/MDI-X
- WOL supported
- PCI Express 8 lane slot x2

#### USB Interface

- USB 2.0 host port x4 (Type A, one has power always on function) (front x2, back x2)
- USB 3.0 host port x4 (front x2, back x2)

#### OLED

- Displays system status and information (Multilingual)

#### HDMI Output

- HDMI port (back x1)

#### Audio

- MIC input, Line input, Audio output

#### Disk Interface

- 6 x SATA for internal

#### Power Supply

- Single power supply (80plus)

#### System Clock

- Battery-backed up system clock

#### Power Management

- Auto power on after shutdown due to power loss

#### Buzzer

- Adjustable frequency alarm

#### Touch Panel

- Power button
- OLED buttons (ENT, ESC, UP, DOWN)

#### Environment

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

#### Chassis

- Tower base

#### Dimensions (HxWxD)

- 320.4 x 215 x 282.6 (mm)

#### Compatibility

- 10GbE PCI-e card
- USB/slim CD/DVD/Blu-Ray drive
- UPS

#### LED Indicators

#### OLED Buttons

#### USB 3.0 Ports

#### USB 2.0 Ports

#### Power Button

#### MIC Input, Line Input, Audio Output

#### USB 3.0 Ports

#### USB 2.0 Ports

#### LAN2 Port

#### WAN/LAN1 Port

#### HDMI Port

#### Serial Port

#### eSATA Port

### Software Functions

#### RAID

- RAID Modes: RAID 0, 1, 5, 6, 10, 50 and JBOD
- Auto-rebuild: Supported
- Hot-swap: Supported
- Dedicated Hot Spare: Supported
- Global Hot Spare: Supported
- RAID Level Migration: Supported
- RAID Level Expansion: Supported
- RAID Volume Encryption: AES256bit

#### Disk

- Power Management: Available spin-down on idle setting
- Bad Block Scanning: Supported
- SMART Info: Supported
- SMART Test: Supported
- Disk Roaming: Supports volume-based roaming to other Thcus 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: Thcus 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 Thcus 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™ Photo Server (via module):
  - Supports GIF, JPG (JPEG), BMP, PNG
  - Support EXIF display
  - Support slide show
- Media Server: Supports uPnP AV streaming protocol (via Twonkymedia module)

#### 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, Portuguese, Turkish and Czech
- 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)

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

#### Data Security

- Virus Scan: Supports McAfee® (via module)

#### Capacity Expansion

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

#### Others

- Recycling Bin: Supported
- Web Disk: Supported (via module)
- Web Server: Supported (via module)
- ISO Mount: Supported
- IP Cam Surveillance: Supports up to 10 IP cameras (via module)
- Auto Module Installation: Thcus' module server automatically provides the latest modules and updates through the user interface
- Local Display: X-Window via HDMI output



D33B79 N11360

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

**Thecus®** Creator in Storage  
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