

N8900

Full-Featured 2U Rackmount NAS Server



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.



Divide the massive storage of a Thecus NAS among multiple users. Whether there are two users or 100, user quotas make it easy to divvy up and manage disk space.



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.



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, 10,50, 60 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.



A Disk On Module (DOM) contains all of the system's critical software. If it stops working for any reason, your system firmware could be inaccessible - or worse. With Thecus' unique Dual DOM (OS Redundancy) design, a secondary DOM automatically reprograms the primary DOM if it fails, meaning your data is always safe and accessible.



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.



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.



Thecus NAS products are ready for a number of emerging technologies. Through the built in PCI-e slot, business users can add a 10G Ethernet Adaptor for lightning fast transfer speeds, or a USB 3.0 Adaptor Card to enjoy next-generation connectivity.

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Specifications

Hardware Platform

Processor

- Intel® Core™ i3-2120 (3.3GHz Dual Core)

System Memory

- 8GB DDR3 SDRAM

LAN Interface (PCI-e)

- RJ-45x3: Intel 82574L 10/100/1000 BASE-TX Auto MDI/MDI-X
- WOL supported

USB Interface

- USB 2.0 host port x6 (front x2, back x4) (Type A)
- USB 3.0 host port x2 (back x2)

LED Indicator

- Power: (Blue)
- System busy: (Yellow)
- System alert: Redundant power or system fan failure (Red)
- HDD 1-8 Activity/Fail (Green/Red)

OLED

- Displays system status and information (Multilingual)

HDMI Output

- HDMI port (back x1)

Audio

- MIC input, Line input, Audio output

Disk Interface

- 8 x SATA/SAS for internal
- 1 x eSATA for external

Power Supply

- Redundant power supply 500W or more

PCI-e Slots

- 8-lane (x3), One is used by SAS HBA
- 4-lane (x1)
- 1-lane (x1) used by CU30N (USB 3.0)

Thermal/Fan Control

- Thermal sensor on processor temperature
- CPU Fan control

System Fan

- Hot swappable (x2)

Buttons

- Power button (Front, shutdown controlled by user interface)
- LCM button (ENT, ESC, UP, DOWN)
- System reset button
- Locator button

RS232

- 1 (For UPS)

Environment

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

Chassis

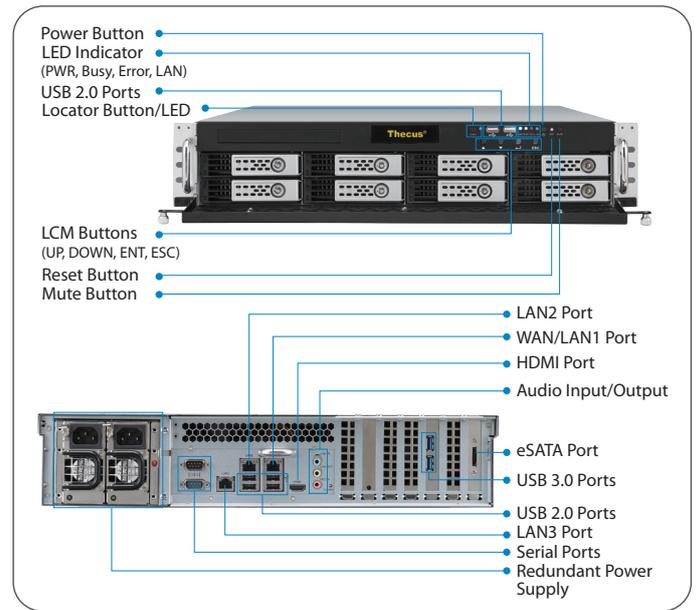
- 2U Rack mount

Dimensions (HxWxD)

- 87 x 438 x 595 (mm)

Weight

- 15.8Kgs



Software Functions

RAID

- RAID Modes: JBOD and RAID 0, 1, 5, 6, 10, 50, 60 and JBOD
- Auto-rebuild: Supported
- Hot-swap: Supported
- Dedicated Hot Spare: Supported
- Global Hot Spare: Supported
- Online RAID Migration: Supported
- Online RAID 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 Thecus NAS

Network

- Configuration: Fixed IP address, dynamic IP address
- IP sharing mode: Can be enable/disable
- 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

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
- 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

Data Backup

- Client Incremental Data Backup: Acronis True Image (OEM version)
- Client System Disaster Recovery: Acronis True Image (OEM version)

- Single Volume Remote Replication: Incremental or synchronized (via Rsync module)
- USB device copy to NAS: Controlled through LCM
- Bi-directional USB copy: Supported (via USB Copy module)
- MAC time machine: Supported

Block Level Access

- iSCSI Target/Initiator: Supports Microsoft/Mac OS X/Linux initiators and Thecus NAS targets
- iSCSI Thin Provisioning: Configurable to virtual size 16TB
- 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
- 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

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 2000/XP/2003/Vista/7
 - Mac OS X Setup Wizard

- Email Notifications: Sends system messages via email to the system administrator
- SNMP Trap: System information trap out

Others

- Dual DOM Supported
- Recycling Bin: Supported
- Web Server: Supported (via module)
- ISO Mount: Supported
- User Module: Supported
- IP Cam Surveillance: Supports up to 10 IP cameras (via module)
- HA (High Availability): Supported



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

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