

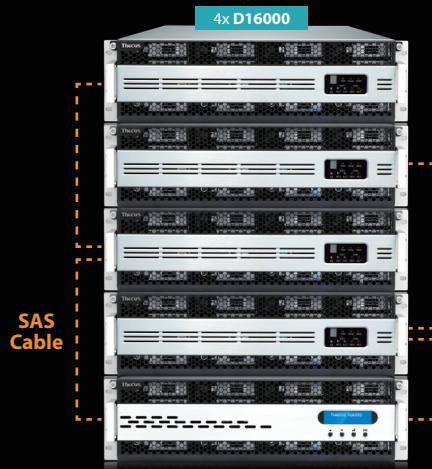
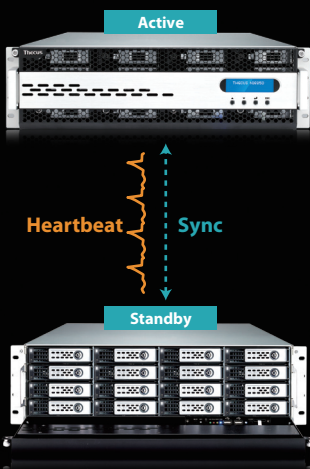
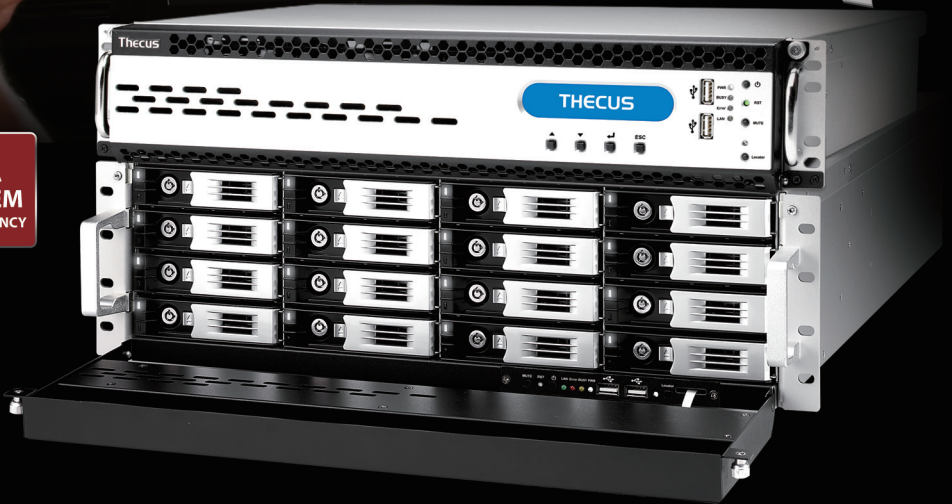
Faster, More Reliable Enterprise Storage at the Forefront of Technology

N12910/N12910SAS/N16910SAS



	DDR4 ECC RAM Up to 64GB	10TB HARD DRIVE SUPPORTED	HA SYSTEM REDUNDANCY
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Rapid Performance

- HA System Redundancy
- Thecus System Failover
- 7 Modes of Link Aggregation
- SATA III and SAS 6G Supported

Great Scalability for Big Data

- Cost-Effective Daisy-Chaining
- Advanced Virtualization with VMWare Certified
- Scale Out: Dynamic Volume Expansion
- Stackable for 5 Additional iSCSI Volumes

Reliable Data Protection

- Bundled with Free Acronis & Antivirus
- Real-time Remote Replication
- Secure Remote Access with VPN
- Dropbox/Amazon S3/ElephantDrive

N12910/N12910SAS/N16910SAS

Specifications

Hardware Platform

Processor

- Intel® Core™ i3-6100 3.7GHz Dual-Core (N12910)
- Intel® Xeon® E3-1245 v5 3.5GHz Quad-Core (N12910SAS/N16910SAS)

System Memory

- 4GB DDR4 ECC SDRAM (N12910)
- 16GB DDR4 ECC SDRAM (N12910SAS/N16910SAS)

Memory Expandable up to

- 64GB

LAN Interface (PCI-e)

- RJ-45x2: Auto MDI/MDI-X
- WOL supported

Available PCI-e Slots

- 16-lane (x1) or 8-lane (x2)
- 4-lane (x1)
- 1-lane (x1)

SAS/SATA Controller (HBA) (N12910SAS/N16910SAS)

- LSI HBA card 12G SAS/6G SATA Supported

Daisy Chain Expansion Port (N12910SAS/N16910SAS)

- Supported

LCM

- Displays system status and information

USB Interface

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

VGA/DVI/HDMI Output

- Supported

Audio(5+1), SPDIF

- Supported

K/B and Mouse (PS2)

- Supported

Disk Interface

- 12 x SATA for internal, support SATA II / SATA III hard disk (N12910)
- 12 x SATA/SAS for internal, support SATA II / SATA III hard disk (N12910SAS)
- 16 x SATA/SAS for internal, support SATA II / SATA III hard disk (N16910SAS)

Power Supply

- Redundant power supply 500W or more (80plus)

Environment

- Temperature:
 - 0°C to 40°C (Operation)
 - -40°C to 70°C (Non-operation)
- Humidity: 0 ~ 80% R.H. (Non-condensing)

Chassis

- 2U Rack mount (N12910 series)
- 3U Rack mount (N16910)

Dimensions (HxWxD)

- 89 x 440 x 662 (mm)/3.5 x 17.3 x 26.06 (in) (N12910 series)
- 133 x 440 x 662 (mm)/5.24 x 17.3 x 26.06 (in) (N16910)

Weight

- 26.39 (Kgs)/58.18(lb) (N12910 series)
- 29.38 (Kgs)/64.77(lb) (N16910)

Certificates

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

Software Functions

RAID

- RAID Modes: RAID 0, 1, 5, 6, 10, 50, 60 and JBOD
- Auto-rebuild: Supported
- Hot-swap: Supported
- Hot Spare: Supported
- RAID Level Migration: Supported
- 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 (require OS7 64bit)
- Disk Wipe and Clone: Supported
- Disk Security: Supported

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
- Bonjour: Supported
- VPN Server: Supported
- vLan: 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
- FTP Secure: Support explicit TLS
- TFTP: Users can download and upload files with TFTP programs
- Download Manager:
 - BT download (via Transmission Module)
 - NZB download (via NZB Module)
- WebDAV/WebDAV SSL: Supported

- 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 (N12910): Acronis True Image (OEM)
- Client System Disaster Recovery (N12910): Acronis True Image (OEM)
- Client Incremental Data Backup (N12910SAS/N16910SAS): Acronis Server Backup
- Client System Disaster Recovery(N12910SAS/N16910SAS): Acronis Server Backup
- Local folder/iSCSI Backup: Supported
- Remote folder/iSCSI Backup: Supported
- High Availability: Supported
- Mac OS X Time Machine: Supported
- Snapshot: Supported (Btrfs)
- System failover: Supported

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: EXT4/XFS/Btrfs

Multimedia Support

- iTunes Server: Supports AAC, MP3 w/ID3 tag and WAV
- Media Server:
 - Supports uPnP AV streaming protocol (via 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

User Profile

- Photo Center: Supported
- File Center: Supported
- APP Center: Supported

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 (exclude btrfs)
- Folder Quota: Supported (Btrfs only)

Administration

- User Interface: Web-based user interface supports English, Traditional Chinese, Simplified Chinese, Japanese, Korean, French, German, Italian, Spanish, Russian, Polish, Portuguese
- Utility Program:
 - MS Windows Setup Wizard
 - Supports Windows XP and after
 - Mac OS X Setup Wizard
- Email Notifications: Sends system messages via email to the system administrator
- SNMP Trap: System information trap out
- P2P Connection:
 - Mail registration to connect NAS remotely

Mobile Applications (iOS/Android)

- Thecus Connect™ (Android):
 - Provides live up-to-date information of your NAS
- Thecus Wizard™: Offers fast NAS Setup via your phone
- Thecus T-OnTheGo™:
 - Upload, download and stream multimedia
- Orbweb.me : Uploading, downloading, streaming multimedia and webcam via P2P connection

Data Security

- Antivirus: Supported (via module)

Capacity Expansion

- Stackable: Can extend for 5 additional iSCSI volumes from other Thecus NAS
- Daisy Chain (N12910SAS/N16910SAS): Allowed to daisy chain to an additional 4 sets of Thecus D16000
- Expand through SAS wide port Interface (N12910SAS/N16910SAS):
 1. Can be configured as multi-independent RAID volume
 2. Can join to existed RAID volume
- Scale Out: Dynamic volume expansion

Others

- Recycling Bin: Supported
- Web Server: Supported (via module)
- ISO Mount: Supported
- IP Cam Surveillance: Supported via Motion Eye
- UPS: Supported through USB interface
- Local Display: X-Windrow via HDMI output

Email: sales@thecus.com


Official Website: www.thecus.com

For Windows NAS: wss.thecus.com


Reseller Center: www.thecus.com/reseller_index.php


NAS App Center: www.thecus.com/sp_app_center.php

 Facebook: www.facebook.com/Thecus

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Retail/Reseller Information