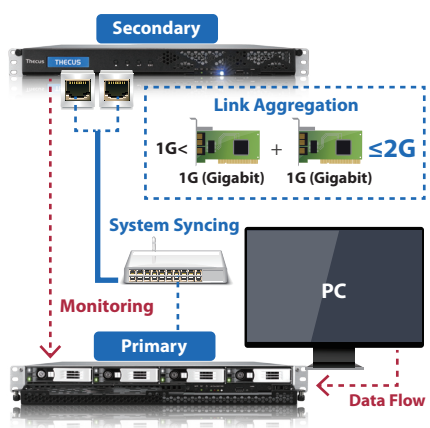# N4820U

Thecus ®
Subsidiary of **Ennoconn**

- **intel CELERON QUAD CORE**
- **4GB** DDR3 RAM UP TO 8GB
- **10TB** HARD DRIVE SUPPORTED
- **SCALE OUT** ARCHITECTURE

Reliable and Cost Efficient 4-bay 1U Rackmount NAS
for Small Business and SOHO

CE | FC | D33B79 | N11360 | N1580 | VCI | EAC | RoHS COMPLIANT

Acronis

Secondary

Link Aggregation

1G< | + | ≤2G
1G (Gigabit) | 1G (Gigabit)

System Syncing

Monitoring

Primary

PC

Data Flow

HDD | NAS

Dynamic Expansion

Flexible on Capacity Expansion

Scale Out Capable

Antivirus

Client Side Backup

Acronis

Office

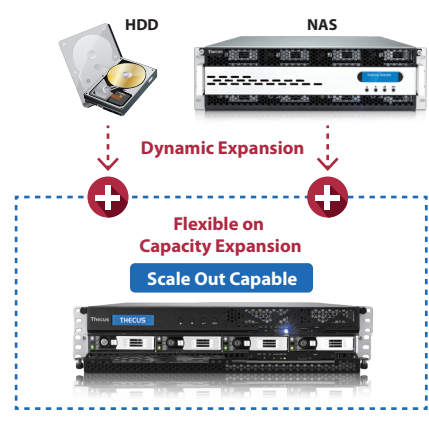**Cloud Backup**

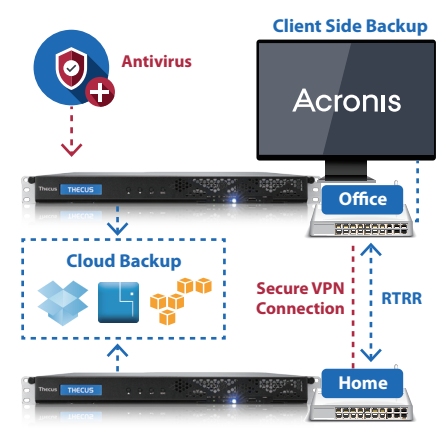**Secure VPN Connection** | **RTRR**

Home

Rapid Performance
- Thecus System Failover
- 7 Modes of Link Aggregation
- SATA III Supported

Great Scalability for Big Data
- Scale Out: Dynamic Volume Expansion
- Stackable for 5 Additional iSCSI Volumes
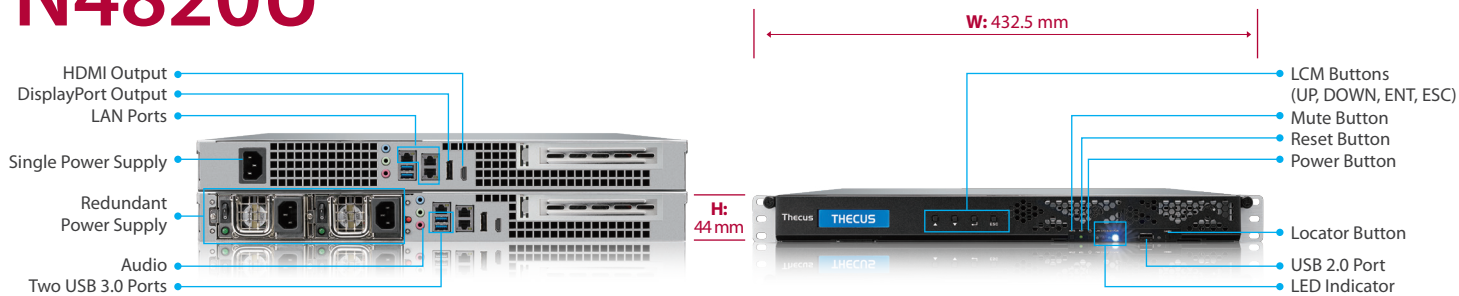- 10TB HDD Supported
- iSCSI Thin Provisioning Supported

Reliable Data Protection
- Free Acronis & Antivirus
- Real-time Remote Replication (RTRR)
- Secure Remote Access with VPN
- Dropbox/Amazon S3/ElephantDrive

Surveillance | **AD Server** | **RAID Encryption** | **Antivirus** | **Link Aggregation** | **Backup Solution** | **VPN Server**

www.**Thecus**.com

N4820U

W: 432.5 mm

HDMI Output
DisplayPort Output
LAN Ports
Single Power Supply
Redundant Power Supply
Audio
Two USB 3.0 Ports

LCM Buttons (UP, DOWN, ENT, ESC)
Mute Button
Reset Button
Power Button
Locator Button
USB 2.0 Port
LED Indicator

H: 44 mm

Hardware Platform

Processor
- Intel® Celeron N3450 1.1GHz Burst to 2.2GHz Quad Core

System Memory
- 4GB DDR3, can upgrade to 8GB
- Memory Module Pre-installed: 4GB x1
- Total Memory Slots: 2

LAN Interface (PCI-e)
- RJ-45x3: 10/100/1000 BASE-TX Auto MDI/MDI-X
- WOL supported

USB Interface
- USB 3.0 host port x2 (back x2)
- USB 2.0 host port x1 (front x1)

LCM
- Displays system status and information

Multimedia Output
- DP/HDMI Output, Mic Input, Line Input, Line Output

Disk Interface
- 4 x SATA for internal, support SATA II / SATA III hard disk

Power Supply
- 250W power supply (Single)
- 300W power supply (Redntdant)

Thermal/Fan control
- Thermal sensor on processor temperature
- System FAN speed controlled by temperature

System Clock
- Battery-backed up system clock

Power Management
- Auto power on after shutdown due to power loss

Buttons
- Power, Reset, Mute, LCM Buttons

Buzzer
- Adjustable frequency alarm

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

Chassis
- 1U 4bays Rack Mount

Dimensions (HxWxD)
- 44 x 432.5 x 578.9 (mm) / 1.73 x 17.03 x 22.79 (in)

Certificates
- CE/FCC/C-Tick/VCCI/BSMI
- RoHS
- WEEE

Software Functions

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

Disk
- Power Management:
  Available spin-down while idle setting
- Bad Block Scan: Supported
- SMART Info: Supported
- SMART Test: Supported
- Disk Roaming: Supports volume-based roaming to other Thecus NAS (Require ThecusOS 7 64 bit)
- 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, Balance-XOR, 802.3ad, 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, Temperature, fan, 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)
- 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 user interface

Data Backup
- Client Incremental Data Backup:
  Acronis True Image (OEM version)
- Client System Disaster Recovery:
  Acronis True Image (OEM version)
- Local folder/iSCSI Backup: Supported
- Remote folder/iSCSI Backup: Supported
- System Failover: Supported
- Mac OS X Time Machine: Supported
- Snapshot: Supported (Btrfs)

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

User Profile
- Photo Center: Supported
- File Center: Supported
- APP Center: Supported
- Surveillance 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, French, German, Italian, Spanish, Russian
- 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
- DDNS: Supported
- SNMP Trap: System information trap out
- P2P Connection: Mail or FB account to register

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

Capacity Expansion
- Stackable: Can extend for 5 additional iSCSI volumes from other Thecus NAS
- Scale-Out: Dynamic Volume Expansion

Others
- Recycled Bin: Supported
- Local Display: X-Window 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
Forum: forum.thecus.com
Twitter: twitter.com/Thecus_Storage
RSS: www.thecus.com/rss_news.php
YouTube: www.youtube.com/thecusstorage
Blog: blog.thecus.com

Retail/Reseller Information