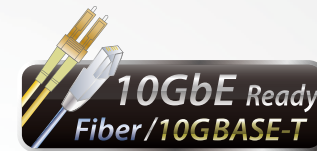
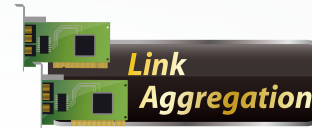
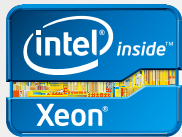


N12000PRO/N16000PRO

For High-Capacity, High-Power and High-Performance Storage



N12000PRO/N16000PRO

- Intel® Xeon® E3-1275 (3.4GHz Quad Core)
- 10GbE aggregation for HA System Redundancy
- Real-time remote replication
- Data security supported by the McAfee® antivirus
- Unified Storage - Share data through file and block level with the same appliance
- Acronis Backup Solution - System Disaster Recovery
- Dynamic Volume Expansion through 10GbE
- Massive Expansion with efficient Daisy-chaining



Contents

Why N12000PRO/N16000PRO? Awards & Reviews

Performance

Product Features

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Case Study -Thecus® N16000 China Shanghai Oriental

NAS In Commerce

Add-on Applications Customize Your NAS

Certifications

Product Specifications

Company Information & Online Marketing Resource

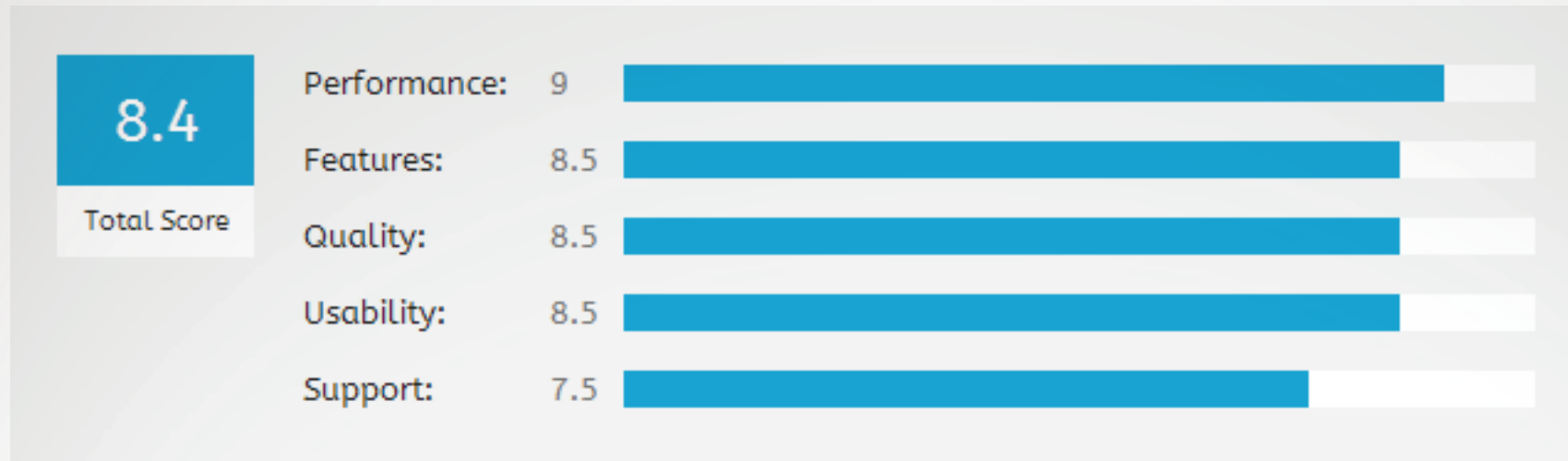
For more information about the Thecus® N16000PRO, go to: http://www.thecus.com/product.php?PROD_ID=85

For more information about the Thecus® N12000PRO, go to: http://www.thecus.com/product.php?PROD_ID=84

Why N12000PRO/N16000PRO?



STORAGE TIMES
WORK, REST & PLAY

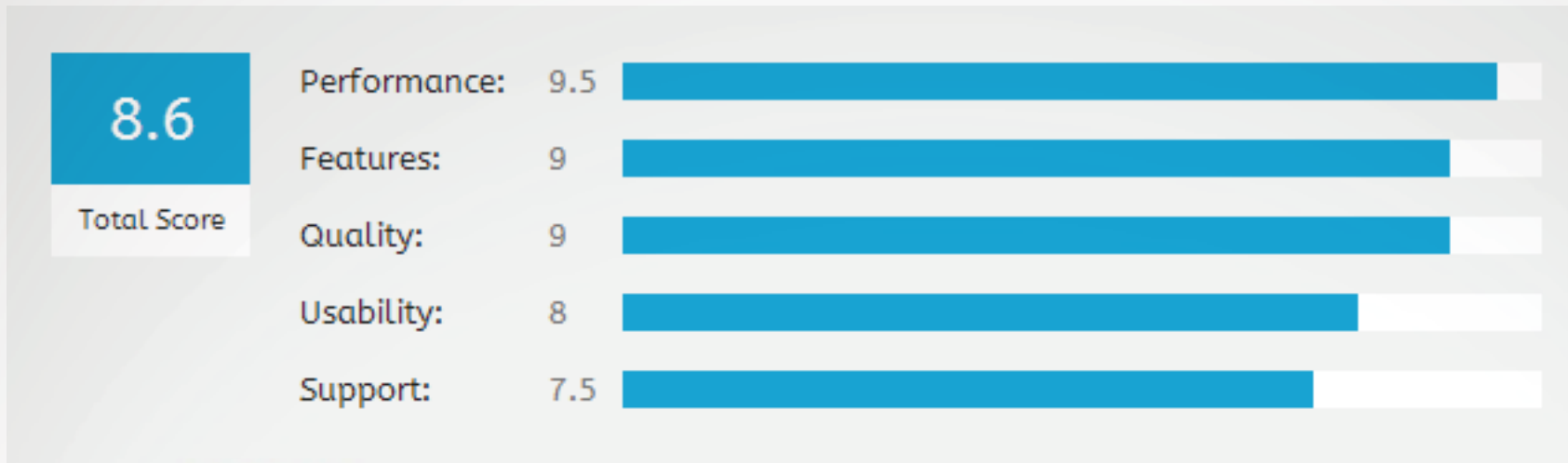


"The Thecus N12000PRO is clinical, feature full, expansion in abundance, and excellent in the area of performance. N12000PRO seems to have the knack of supporting compatibility on expansive platforms, ensuring painless and reliable storage without the aggravation of trying to make it all come together. No fuss storage at an excellent price with enterprise level features that will serve in any environment for many years to come. Truly has to be one of the best 12-bay NAS servers on the market. Awarding it our Editors Choice was easy regardless of how difficult it is to get an award at Storagetimes the N12000PRO deserved it on merit."

Why N12000PRO/N16000PRO?



STORAGE TIMES
WORK, REST & PLAY



"The Thecus N16000 series have come of age and the N16000PRO is clear evidence of that. Performance, Features, Expandability, Reliability, Compatibility and an excellent Value ratio, puts it firmly ahead of the curve and unparalleled in its class. The 10GbE performance was very impressive, despite no SSD presence but with SAS option, the local HA setup and test was a walk in the park. The N16000PRO has Pizzazz and for the price you just cannot lose. It's a winner all the way, and a worthy recipient of our Editors Choice award."

Performance



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

Testing Environment

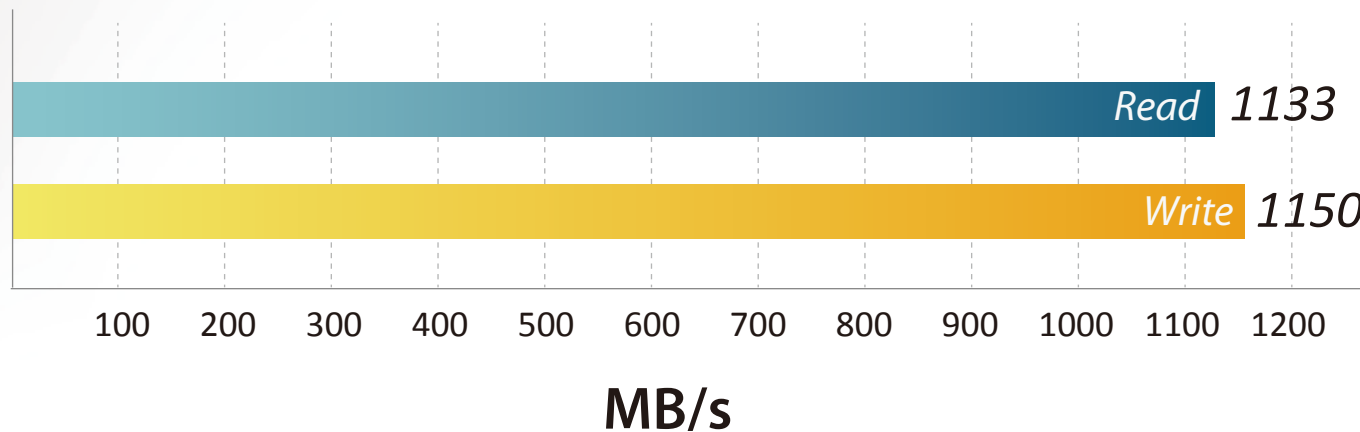
Client-side System Configuration

- CPU: Intel E5540 @ 2.53GHz/2.53GHz
- Memory: 12GB DDR2 SDRAM
- HDD: WD (WD5003ABYX_500GB) x2 (Raid 0)
- Intel® X520-SR2 10Gb NIC

Testing-side Configuration (N16000PRO)

- CPU: Intel Xeon E3-1275 @ 3.4GHz
- Memory: 8GB DDR3 SDRAM
- HDD: Seagate Barracuda XT (2TB) x3 (Raid 5)
- Intel® X520-SR2 10Gb NIC

N16000PRO SAMBA Performance



Performance



Link aggregation can sustain multiple network connections and provide redundancy in case one of the links fails. Thecus NAS supports 7 modes which provide Load Balance, Failover, 802.3ad, Balance-XOR, Balance-TLB, and Balance-ALB, Broadcast.

Testing Environment

Client-side System Configuration

- CPU: Intel E8400 3.0GHz Core 2 Duo
- Memory: 4GB DDR2 SDRAM
- NIC: Intel PRO/1000PT PCI-e x1
Totally 4 units
- Switch: HP 1810-24G

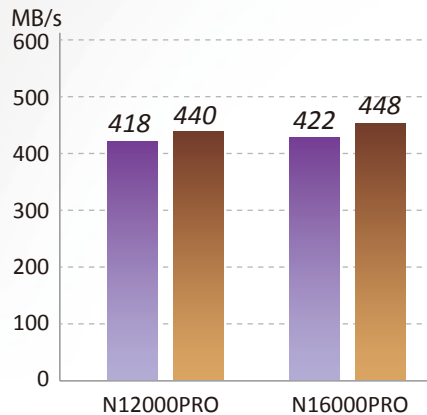
Testing-side Configuration (N12000PRO)

- CPU: Intel Xeon E3-1275 Quad Core 3.4GHz
- Memory: 8GB DDR3 SDRAM
- HDD: WD6000HLHX 600GB SAS 6G X8 with R5
- NIC: Intel PRO1000 Quad Port

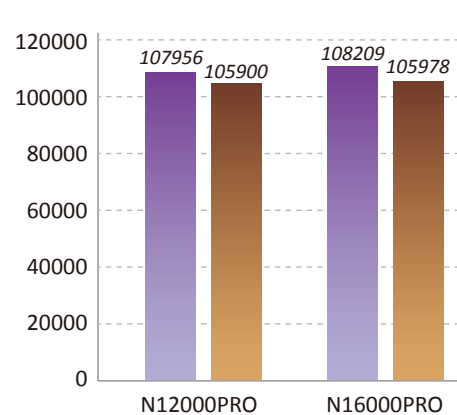
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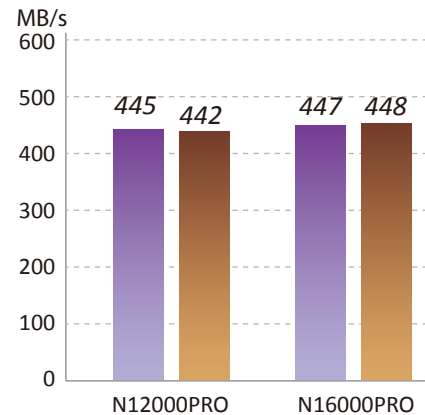
Aggregate(X4GbE) 4K Throughput



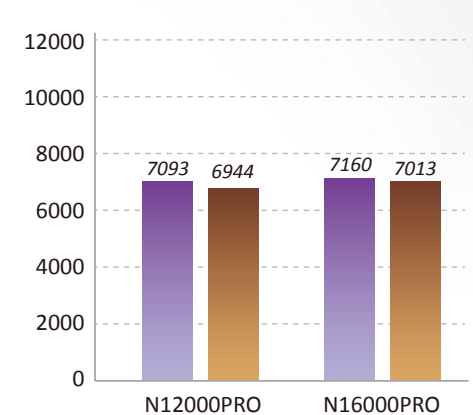
Aggregate(X4GbE) 4K IOPS



Aggregate(X4GbE) 64K Throughput



Aggregate(X4GbE) 64K IOPS



Net Bench 7.0.3 Read Write

Product Features

Bundled with **FREE** "Acronis True Image" and "McAfee Antivirus"



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.



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.



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.



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.



Link aggregation can sustain multiple network connections and provide redundancy in case one of the links fails. Thecus NAS supports 7 modes which provide Load Balance, Failover, 802.3ad, Balance-XOR, Balance-TLB, and Balance-ALB, Broadcast.



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.



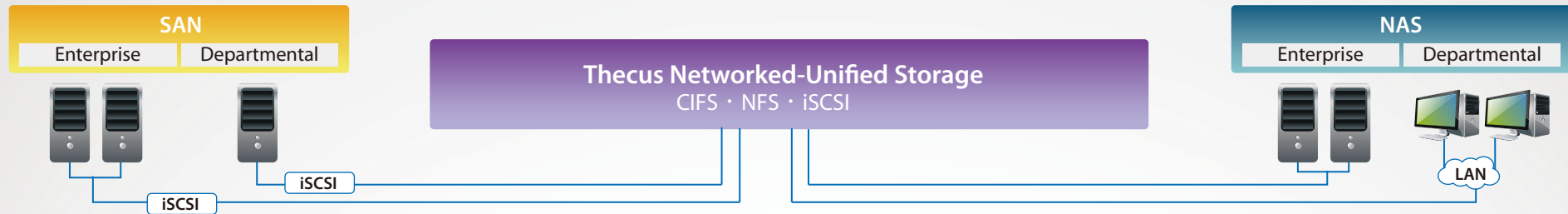
Get the most out of your storage space with the extreme speed of iSCSI and the efficiency of iSCSI thin provisioning. Connect through iSCSI for the fastest data transfer speeds available and make wasted disk space a thing of the past with thin provisioning's flexible storage functionality.



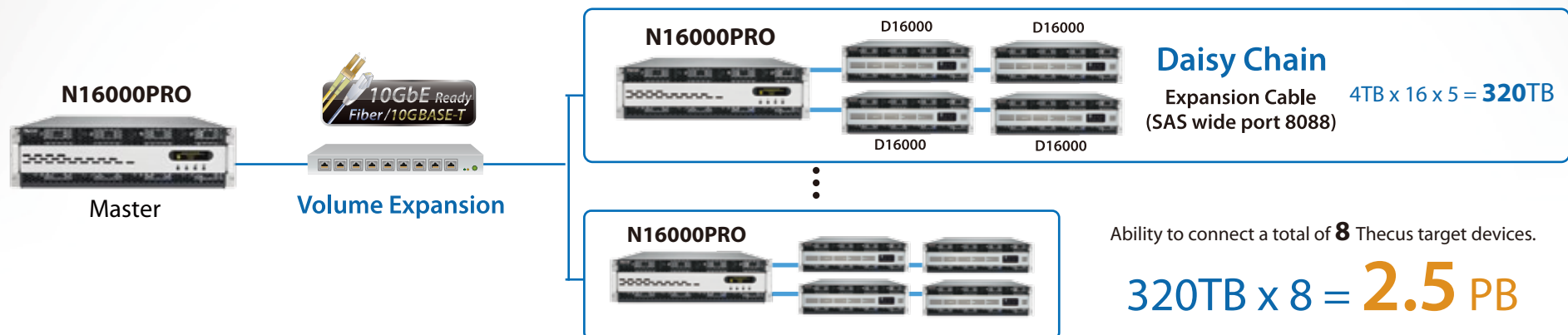
When it comes to data management, Thecus NAS truly let you have it your way. Create multiple RAID volumes each supporting different RAID modes including RAID 0, 1, 5, 6, 10, 50, 60 and JBOD for your own balance of performance and data protection. Should a hard drive malfunction occur, changing one is simple thanks to online RAID migration and expansion, hot spare, and auto rebuild.

Solution - Easy Scalability

Unified Storage: share data through iSCSI with the same appliance



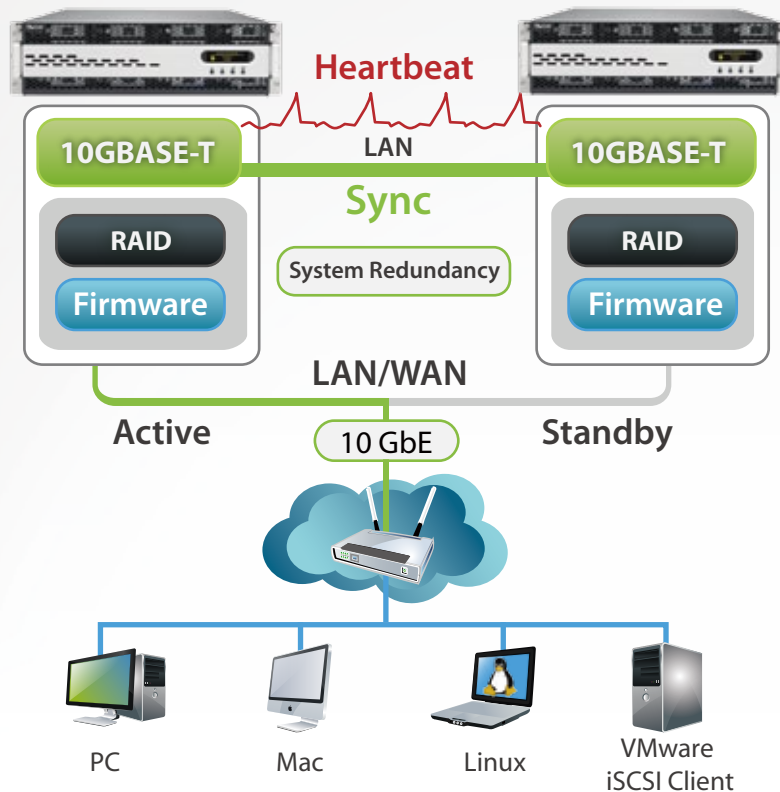
Dynamic iSCSI volume expansion and daisy-chaining for a massive expansion of 2.5 petabytes storage capacity



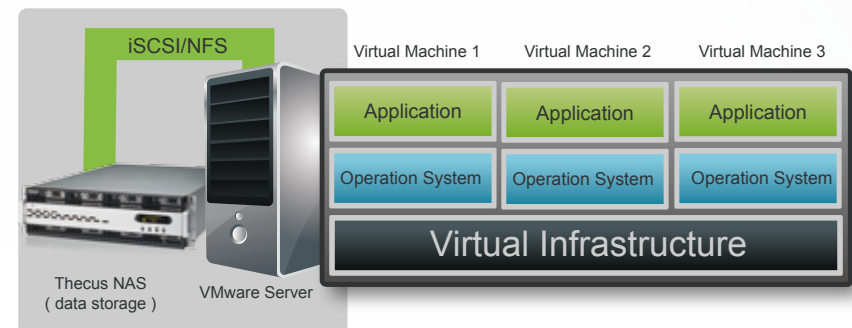
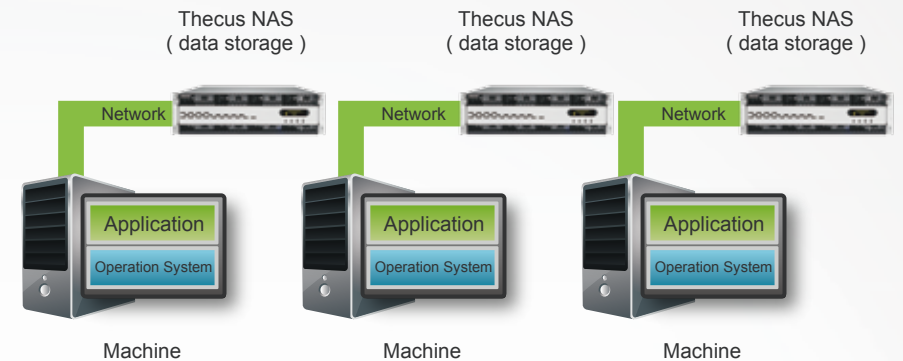
Solution - Absolute Performance & Security



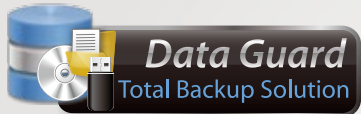
For the first time, **your data is completely free of delays in access.** Regardless of the situation, HA actively duplicates your data on two separate, identical NAS. If one needs maintenance, the other will dutifully rise to the occasion without as much as a blip in service. Whether rain, shine, or Armageddon, your data will always be there.



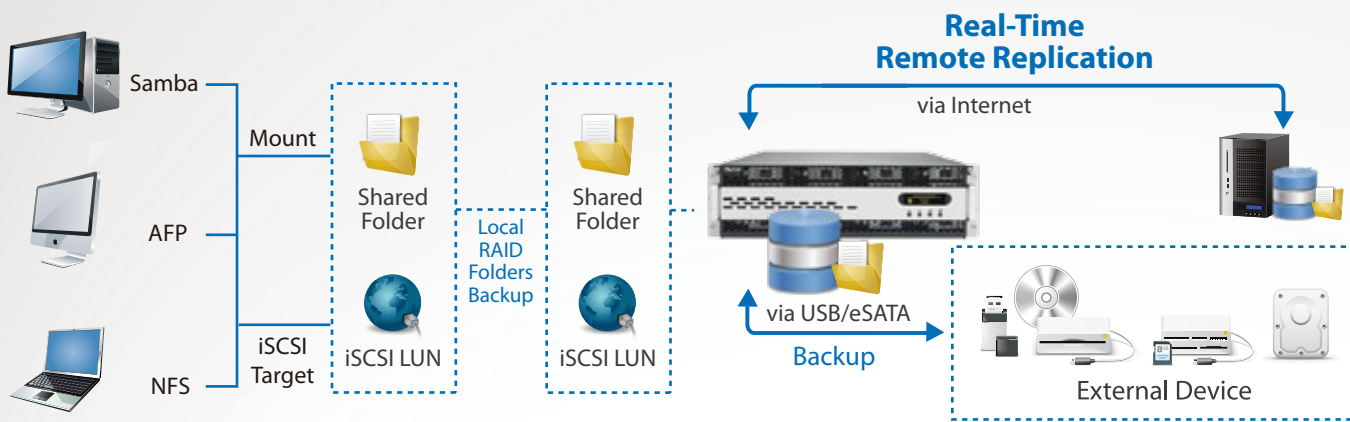
Thecus' VMware iSCSI Certification on the N12000PRO and N16000PRO means that there are now three new expansive, powerful, and affordable solutions for companies that already have virtualized data centers as well as those that are just starting to realize the benefits of this setup. As data systems become larger and more complex, the importance of consolidation, simplification, efficiency, and energy conservation will continue to grow.



Solution - Total Backup



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.



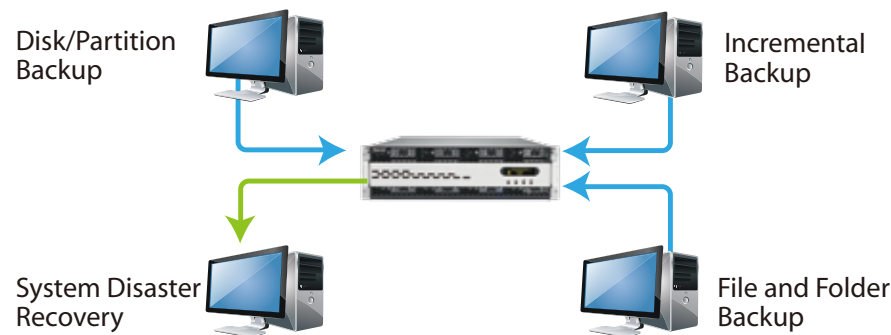
Thecus® NAS includes connections for USB and slim CD-ROM drive. Data on your NAS can now be burned directly to CD, DVD, and Blu-ray discs with Data Burn. Burning ISO image files is also supported. With Data Burn, the process of burning files to disc is now quick and easy.



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 with 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.



Thecus brings the best to the table with Acronis' advanced backup software. Back up all your data with One-click Protection or pick and choose only your most important files. Acronis sports a slick interface, user-friendly design, and comprehensive features to keep your data safe.



Case Study - Thecus® N16000 China Shanghai Oriental



Company:
Shanghai Oriental Television

Location:
China/ Shanghai

Industry:
TV Media

Thecus model :
N16000

Website:
<http://www.DRAGONTV.cn>

Shanghai Oriental Television station is a popular local TV station in China, its signal covers more than 20 large and medium sized cities in the Yangtze Delta, with a population of 130 million. Number of programs rapidly increases due to daily coverage, and with optical storage devices and access output tape, both storage capacity and efficiency is hindered.

Thecus® N16000 utilizes Intel Xeon® X3480 quad-core processor, it uses 64-bit operating system, and supports 6G SATA/SAS HDD, with maximum storage capacity of 64TB. After a careful study, Shanghai Oriental TV finally selected the Thecus® enterprise-class N16000 for its high stability and powerful network storage platform; more importantly to cope with daily bases of 300GB large files transfer and to increase efficiency.

Highlights

- Multiple client access through network storage system
- Manage permission sets
- High Availability – active duplication
- Capable of storing 1 year of HD image files and related materials on Thecus N16000

Shanghai Oriental Television station uses Thecus® N16000 to establish a secure storage environment

- Two Thecus® N16000, each appliance of 16 2TB enterprise-class SATA HDD, and set up for RAID 6 storage environment (actual capacity of 28TB).
- Through 10Gb Ethernet networking High Availability (HA) real-time synchronization; when problems occur, there will be no data loss.
- Set link aggregation to employ 200MB/s of actual bandwidth.
- Provides client (winxp, win7) 2TB data storage capacity, set entirely on a workstation without having to make any changes.

Case Study - Thecus® N16000 China Shanghai Oriental



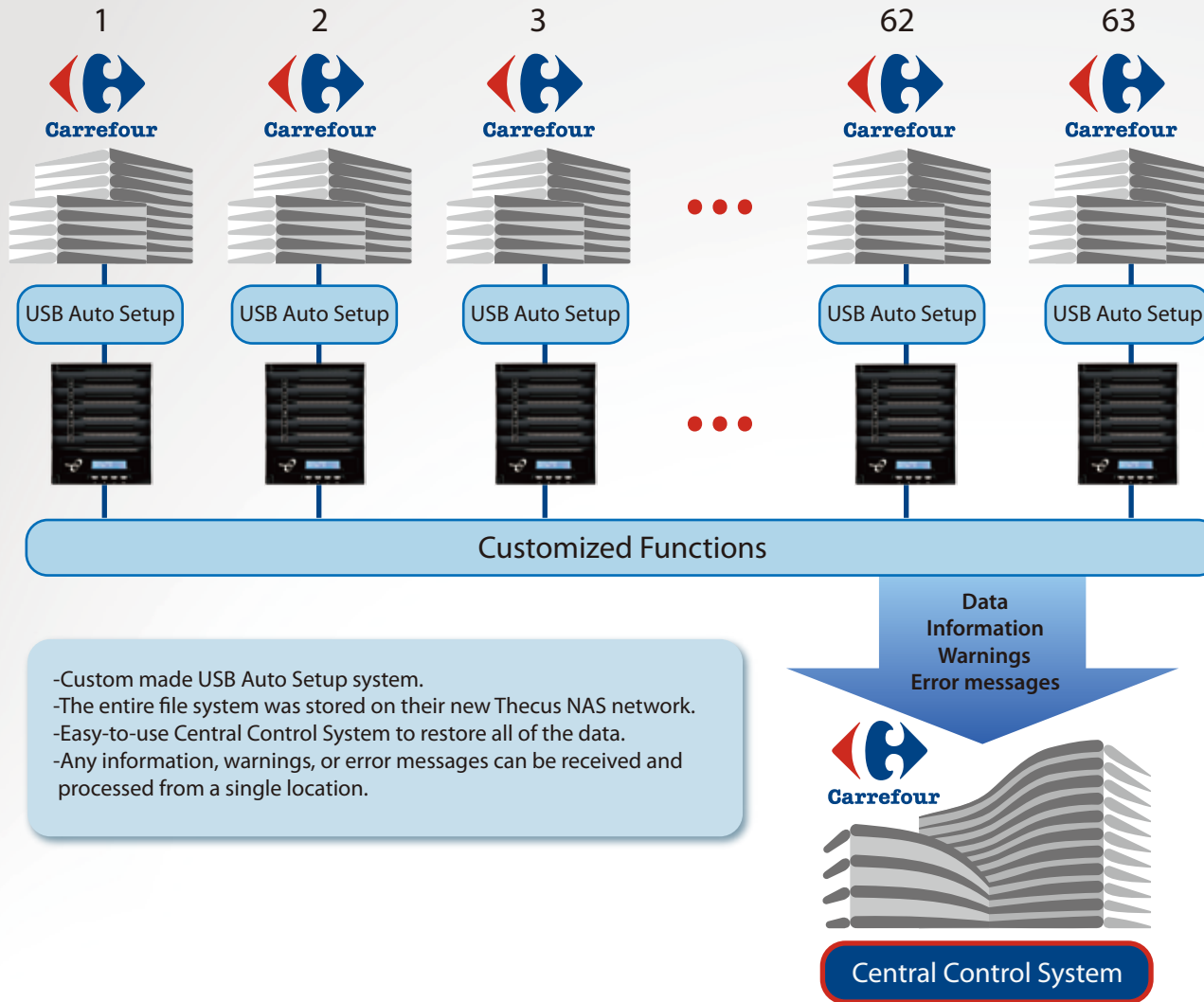
RAID 6



RAID 6

NAS in Commerce

See how one of the world's major supermarkets implemented their Thecus® NAS solution in 63 stores.



- Custom made USB Auto Setup system.
- The entire file system was stored on their new Thecus NAS network.
- Easy-to-use Central Control System to restore all of the data.
- Any information, warnings, or error messages can be received and processed from a single location.

Other Notable Clients

American

- Intel
- Marvell

Australia

- Australian Department of Defence
- State Library
- Post Office
- Australia Railway

France

- Acome Societe De Cooperative De Travailleurs
- Marwal Systems
- Granits Liberte
- Ste Distribution Automobile Chalonnaise
- Tolerie Chaudronnerie De Bagneux Sarl

Germany

- BMW Group Elektronik Fahrdynamik
- German telecom system
- City Government

Russia

- Federal Penitentiary Service
- The Regional Departments of The Pension Fund
- The Regional Departments of The Directorate of Internal Affairs (Police) for the project called "Safe city"

South Africa

- EMI music

Japan

- NEC
- NTT

Taiwan

- 台灣家樂福
- 台灣農田水利局
- 台積電
- 台灣海巡署
- 遠東紡織
- 翰林出版社

China

- 廣東佛山順德職業學院
- 貴州農業銀行
- 武漢國稅局
- 廣州白雲機場
- 中國銀行科技處
- 北京科技大學
- 福建軍區
- 江蘇省交通廳

Customize Your NAS

Nearly double the number of apps supported by leading competitors

http://www.thecus.com/sp_app_center.php



N16000PRO Product Specifications

Hardware Platform

Processor

- Intel® Xeon® E3-1275 (3.4GHz Quad 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)

OLED

- Displays system status and information
(Multilingual)

SAS/SATA controller (HBA), PCI-e (8-lane)

- LSI 2008 HBA card supports 6G SAS/SATA
(x8)

HDMI Output

- HDMI port (back x1)

Audio

- MIC input, Line input, Audio output

Disk Interface

- 16 x SATA/SAS for internal
- 2 x eSATA for external

Power Supply

- Redundant power supply 700W or more
(80plus)

PCI-e Slots

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

System Fan

- Hot swappable (x4)

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

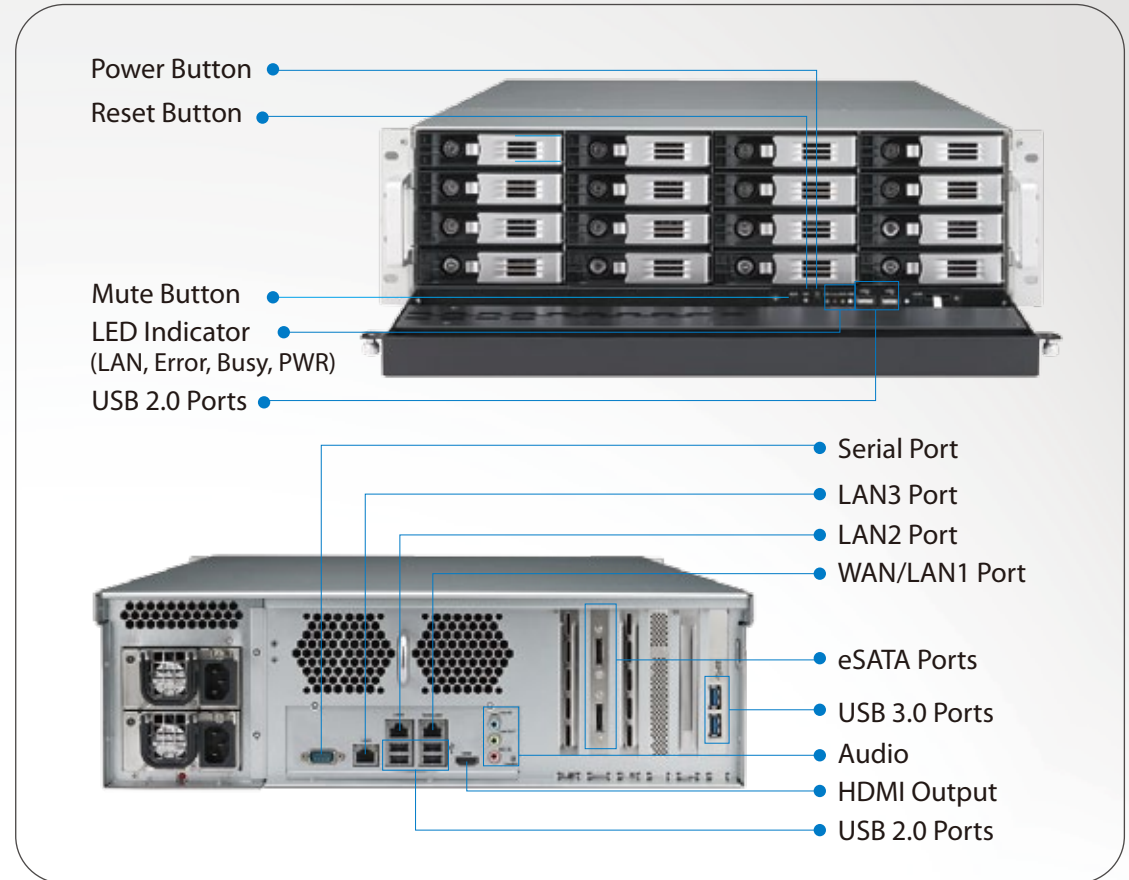
- 3U Rack mount

Dimensions (HxWxD)

- 133 x 440 x 662 (mm)

Weight

- 18Kgs



N16000PRO Product Specifications

Software Functions

RAID

- RAID Modes: RAID 0, 1, 5, 6, 10, 50, 60 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:
 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
- Download Manager: BT download (via Transmission Module), NZB download (via NZB Module)
- 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 Backup and Recovery Server OEM for Windows (license x5)
- Client System Disaster Recovery: Acronis Backup and Recovery Server OEM for Windows (license x5)
- Client Side Backup Software: Thcus Backup Utility (Windows/Mac OS X)
- 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

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):
 1. Supports GIF, JPG (JPEG), BMP and PNG
 2. Supports EXIF display
 3. Supports 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)

- T-Dashboard: Mobile monitoring and administration (via module)
- T-OnTheGo™: 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
- Volume Expansion: Support dynamic Volume expansion via 10G interface
- JBOD Expansion: Support Capacity expansion via Thcus D16000 JBOD device

System Redundancy

- High Availability: Support system level redundancy

Others

- Dual DOM Supported
- 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

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

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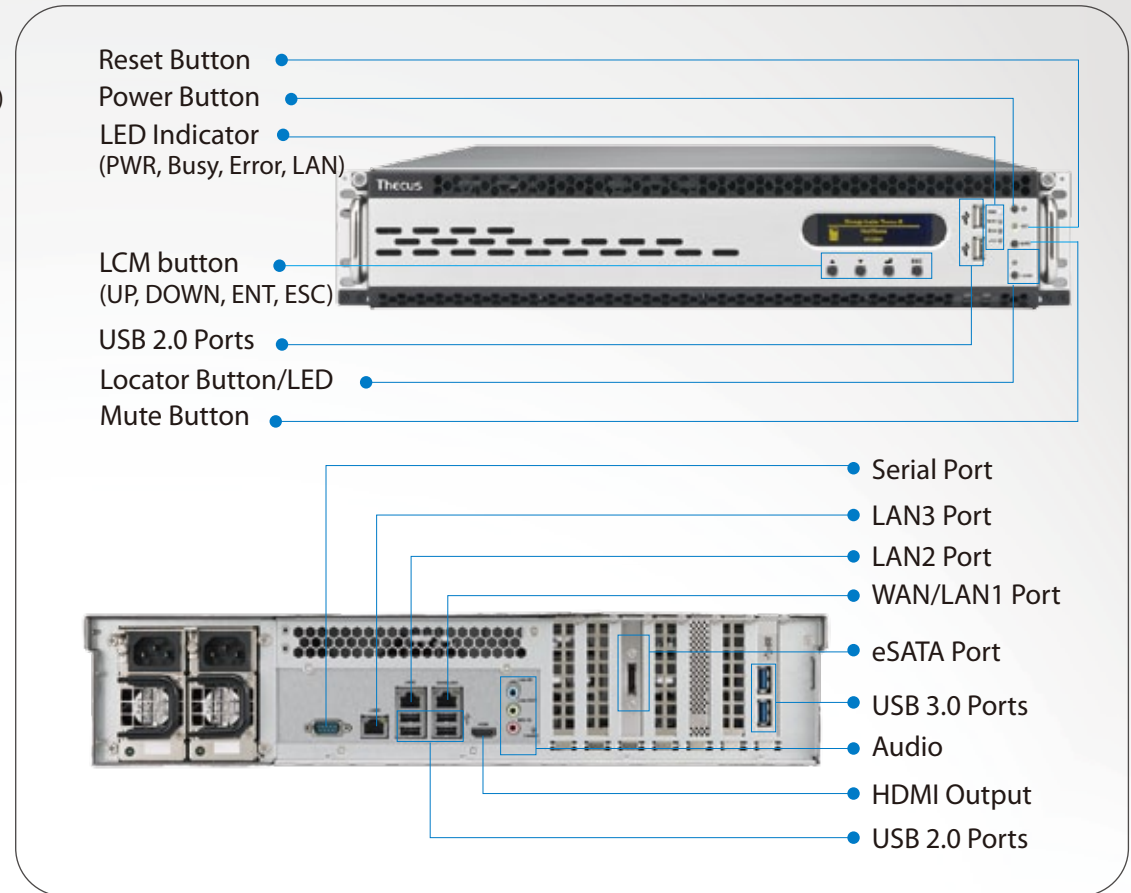
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Block Level Access

- 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):
 1. Supports GIF, JPG (JPEG), BMP and PNG
 2. Supports EXIF display
 3. Supports slide show
- 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
- 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)

- T- Dashboard: Mobile monitoring and administration (via module)
- T-OnTheGo™: 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
- Volume Expansion: Support dynamic Volume expansion via 10G interface
- JBOD Expansion: Support Capacity expansion via Thcus D16000 JBOD device

System Redundancy

- High Availability: Support system level redundancy

Others

- Dual DOM Supported
- 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

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



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