



# W12000

## The Definitive Windows Storage Server



When data is sent to multiple users, single-instance storage allocates data to be stored once, eliminating the need to duplicate data storage. This results to reduced data storage and improved data backups. Single-instance storage is most functional when transferring data to large distribution directories by improved delivery efficiency.



No CALs required benefits users the ability to access the services of the server without a permit. With this, business users will not have to go through the trouble of obtaining authorization of per-user or per-device. With no CALs required, users are able to access data on demand, without the troubles of CALs.



The evolved PCI-e Gen2 offers innovative technology that saves cost with an efficient narrow configuration.

While doubling the transfer rate of the previous PCI-e, the PCI-e Gen2 provides the same bandwidth as the PCI-e but with only half its lanes. The target is to save on cost and provide an improved PCI-e for users. The Gen2 provides a significant improvement on system performance over the PCI-e; users can now enjoy faster transfer speeds and connectivity.



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.



Make your NAS into the ultimate multimedia hub! The W12000's HDMI output allows you to connect your NAS directly to your TV for device management.



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.

# W12000

## Specifications

### Hardware Platform

#### Processor

- Intel® Xeon® E3-1225 3.1GHz

#### System Memory

- 8GB DDR3 SDRAM

#### Storage (for Pre-installed OS)

- 2.5" SATA
- 250GB 5400rpm/7200rpm above

#### LAN Interface (PCI-e)

- RJ-45x3

#### 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)
- HDD 1-12 Activity/Fail (green/red)

#### HDMI Output

- HDMI port (back x1)

#### Audio

- MIC input, Line input, Audio output

#### Disk Interface

- 12 x SATA for internal
- 1 x eSATA for external

#### Power Supply

- Redundant power supply 500W or more

#### Thermal/Fan Control

- Thermal sensor on processor temperature
- CPU fan control
- System fan control

#### Buttons

- Power button (Front, shutdown controlled by user interface)
- System reset button
- Locator button

#### RS232

- 1 (For UPS)

#### Environment

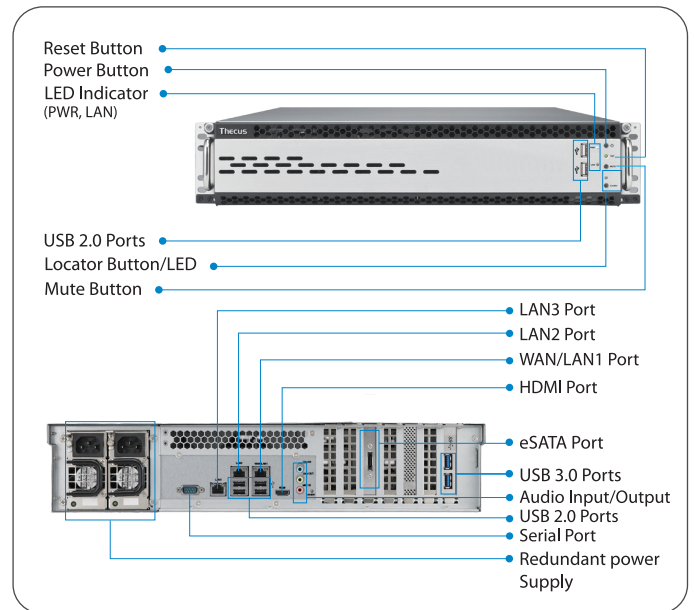
- Temperature: 5°C to 40°C
- Humidity: 0 ~ 80 % R.H. (Non-condensing)

#### Chassis

- 2U Rack mount

#### Dimensions (HxWxD)

- 89 x 440 x 662 (mm)



### Software Functions

#### (Optional, Windows Storage Server 2012 Standard Version)

Windows Storage Server 2012 Standard is a robust and reliable foundation on which to develop, deliver, and manage rich user experiences and applications. Windows Storage Server 2012 Standard provides a secure network infrastructure and reduces costs while increasing technological flexibility and value within your organization.

#### Key Features

- File sharing (SMB & NFS)
- DFS-Replication
- File Classification Infrastructure (FCI)
- File Server Resource Manager (FSRM)
- Domain Join
- Shared block storage (iSCSI Target + Boot)
- OEM Customizable Out of Box Experience
- Storage Spaces
- Deduplication
- BranchCache
- Virtualization(Host + 2 VM\*)
- Clustering
- Simplified Cluster Setup
- Networking Infra (DHCP, DNS & WINS)

#### Feature

- Offloaded Data Transfer (ODX)
- Thin Provisioning
- Storage Spaces
- SMB: SMB 3.0
- SMB Transparent Failover
- Failover Clustering
- Cluster-Aware Updating
- Online CHKDSK scanning
- Scale-out active-active/continuously available file server
- SMB Multichannel
- SMB Direct (RDMA)
- SMB performance DAS equivalence (97% of DAS transaction performance)
- Hyper-V VHD files & SQL Server database files on SMB shared folders
- Online Backup to Cloud
- Hyper-V Replica
- NIC teaming
- Hyper-V share-nothing live storage migration
- Hyper-V Virtual Fiber Channel
- ReFS
- Native 4K Disk Support
- Virtual Disk Format: VHDX up to 64 TB
- Shared block storage (iSCSI Target + Diskless Boot)
- BranchCache
- Virtualization (Hyper-V host or guest support)
- Simplified Cluster Setup
- Networking Infra (Print, DHCP, DNS & WINS)
- NFS file sharing: NFS v4.1
- Deduplication
- OEM Customizable Out of Box Experience
- DFS-Namespaces and Replication

- File Classification Infrastructure (FCI)
- File Server Resource Manager (FSRM)
- Domain Join
- Active Directory Lightweight Directory Services
- Windows Server Backup
- BitLocker



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

**Thecus®** Creator in Storage  
www.thecus.com

#### Thecus® HQ

15F., No.79, Sec. 1, Sintai 5th Rd., Sijhih Dist, New Taipei City 221, Taiwan ( R.O.C.)  
Email: sales@thecus.com Facebook: www.facebook.com/Thecus  
Forum: forum.thecus.com Twitter: twitter.com/Thecus\_Storage

#### Thecus® U.S.A., Inc.

487 Montague Expressway, Milpitas, CA 95035  
Email: support@us.thecus.com  
Tech support: ussupport.thecus.com/esupport

#### Thecus® NL B.V.

Marinus Dammeweg 7, 5928 PW Venlo, the Netherlands  
Email: thecus\_nl@thecus.com  
Tech support: esupport.thecus-eu.com  
Support Email: support\_nl@thecus.com

#### Thecus® China

13th Floor Room G, Investment Building, Zhongshan South Road No. 414, Qinhua District, Nanjing City, China  
Support Email: support\_cn@thecus.com