Thecus®
Empowering Professionals

The Definitive Windows Storage Server

W8900

W12000

W16000

No Windows Server CALs Required

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.

PCI-e Gen2

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.

SIS Data De-duplication

Single-Instance Storage (Dedup)

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.

10GbE Ready Fiber/10GBASE-T

10GbE Ready

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.

W16000/W12000/W8900

Specifications

Hardware Platform

Processor
- Intel® Xeon® E3-1225 3.1GHz Processor(W16000/W12000)
- Intel® Core™ i3-2120 3.30GHz Processor(W8900)

System Memory
- 8GB DDR3 SDRAM

Storage (for Pre-installed OS)
- 2.5" SATA
- 250GB 5400rpm/7200rpm above

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)
- HDD 1-16 Activity/Fail (green/red) (W16000)
- HDD 1-12 Activity/Fail (green/red) (W12000)

- HDD 1-8 Activity/Fail (green/red) (W8900)

HDMI Output
- HDMI port (back x1)

Audio
- MIC input, Line input, Audio output

Disk Interface
- 16 x SATA for internal, 2 x eSATA for external (W16000)
- 12 x SATA for internal, 1 x eSATA for external (W12000)
- 8 x SATA for internal, 1 x eSATA for external (W8900)

Power Supply
- Redundant power supply 500W or more (W16000/W12000)
- Redundant power supply 350W or more (W8900)

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℃ to 40℃
- Humidity: 0 ~ 80 % R.H. (Non-condensing)

Chassis
- 3U Rack mount (W16000)
- 2U Rack mount (W12000/W8900)

Dimensions (HxWxD)
- 133 x 440 x 662 (mm) (W16000)
- 89 x 440 x 662 (mm) (W12000)
- 87 x 438 x 595 (mm) (W8900)

Software Functions

(Bundled with Windows Storage Server 2012 R2 Standard Version)

Windows Storage Server 2012 R2 Standard is a robust and reliable foundation on which to develop, deliver, and manage rich user experiences and applications. Windows Storage Server 2012 R2 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 (Windows Storage Server 2012 R2 Standard (Standard))
- Offloaded Data Transfer (ODX): Supported
- Thin Provisioning: Supported
- Storage Spaces: Supported
- SMB: SMB 3.0
- SMB Transparent Failover: Supported
- Failover Clustering: Supported
- Cluster-Aware Updating: Supported
- Online CHKDSK scanning: Supported
- Scale-out active-active/continuously available file server: Supported
- SMB Multichannel: Supported
- SMB Direct (RDMA): Supported
- SMB performance DAS equivalence: Supported (97% of DAS transaction performance)
- Hyper-V VHD files & SQL Server database files on SMB shared folders: Supported
- Online Backup to Cloud: Supported
- Hyper-V Replica: Supported
- NIC teaming: Supported
- Hyper-V share-nothing live storage migration: Supported
- Hyper-V Virtual Fiber Channel: Supported
- ReFS: Supported
- Native 4K Disk Support: Supported
- Virtual Disk Format: VHDX up to 64 TB
- Shared block storage (iSCSI Target + Diskless Boot): Supported
- BranchCache: Supported
- Virtualization (Hyper-V host or guest support): Supported
- Simplified Cluster Setup: Supported
- Networking Infra (Print, DHCP, DNS & WINS): Supported
- NFS file sharing: NFS v4.1
- Deduplication: Supported
- OEM Customizable Out of Box Experience: Supported

- DFS-Namespace and Replication: Supported
- File Classification Infrastructure (FCI): Supported
- File Server Resource Manager (FSRM): Supported
- Domain Join: Supported
- Active Directory Lightweight Directory Services: Supported
- Windows Server Backup: Supported
- BitLocker: Supported

Retail/Reseller Information

RoHS COMPLIANT