

SPECIFICATION

W5000 W4000 W2000



Hardware Platform	W5000	W4000	W2000
Processor	Intel® Atom™ D2550 (1.86GHz Dual Core)	Intel® Atom™ D2701 (2.13GHz Dual Core)	Intel® Atom™ D2701 (2.13GHz Dual Core)
System Memory	2GB DDR3 SDRAM	2GB DDR3 SDRAM	2GB DDR3 SDRAM
Embedded Boot Drive	Seagate SSHD	SSD	SSD
Drive Bays	5	4	2
Form Factors Supported	2.5" / 3.5"	2.5" / 3.5"	2.5" / 3.5"
External eSATA Ports	1	1	1
LAN Ports (Gigabit)	2	2	2
USB 3.0/USB 2.0 Ports	1/4	2/2	1/2
Multimedia Ports	HDMI/VGA	HDMI/VGA	HDMI/VGA
Card Reader	-	-	SD/SDHC/MMC Card
Dimensions (mm) (HxWxD)	230 x 190 x 240	192 x 172 x 250	163.8 x 115.4 x 217.6
Weight (kg)	7.2	6.6	4

Software Functions	Windows Storage Server 2012 R2 Essentials
File System	Native NTFS support, FAT32, EFS, ReFS
Disk Management	Data Deduplication
	Storage Spaces
	- Create pools of storage using industry standard hard disk drives
	- Enables data redundancy with mirroring or parity
	NTFS Online Scan and Repair (CHKDSK) intelligently repairs unexpected corrupted data
Network Support	Protocols : IPV6 / Multiple NICs / DNS / DHCP & WINS
	Support for multiple subnets / Multiple IP addresses
File and Block Storage Protocol Support	File : SMB (1.0, 2.0, 2.1, 3.0, 3.01), NFS (v2, v3, v4.1)
	Block : iSCSI Target Server, iSCSI, SATA, and USB
Directory Services / User Management	Seamless Active Directory integration with any existing Active Directory Domain
	Authentication and authorization
	Domain Controller, Certificate Services, Federation Services, Rights Management
Windows Client Integration via Launch Pad	Agent deployed on client, one click connection to NAS appliance
Performance	NIC Teaming: Aggregates bandwidth of multiple NICs
	SMB Multi-channel: Multiple transport sessions in a single NIC
Secure Remote Access	Secure Remote Desktop Services with Encryption and Authentication
	Remote file access via FTP/FTPS
	Remote Web Access via HTTPS
Licensing	Client support for up to 50 users or devices
	No Windows Server Client Access Licenses (CALs) required
	Single processor socket / Up to 4 GB of memory
Printer Server Support / FAX and Scan	Local printer connection: Full Windows print services support
	Distributed Scan Server: Print Server and Document Services
Health Reporting / Notifications	Integrated health monitoring and reporting
	- Send health report to chosen email address on a customizable schedule
Media Pack for Streaming	Stream music, videos, and pictures with the included Windows Server Essentials Media Pack
Global Language Pack	36 Interfaces Available



Windows Embedded

World's First Windows Storage Server 2012 R2 Essentials NAS

wss.Thecus.com



Technical Support:
 In Dutch, French, and German: esupport.thecus-eu.com
 In English and Chinese: esupport.thecus.com
Email: sales@thecus.com
Reseller Center: www.thecus.com/reseller_index.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
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Scalability Improvements



Storage Spaces

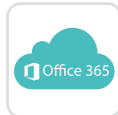
Storage Spaces delivers Software Defined Storage (SDS). Easily group multiple hard drives into a storage pool and protect data in the pool, without the need to understand RAID. Storage Spaces enables cost-effective, highly available, scalable, and flexible storage solutions for business-critical deployments.



Data Deduplication

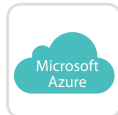
Controls data growth by removing duplicate data. Allows the server to efficiently store, transfer and backup less data.

Integrated Cloud Services



Integration with Office 365

Windows Storage Server 2012 R2 Essentials provides the option to integrate with Office 365 or a third-party Hosted Exchange provider. Administrators need only create a user's account once — an associated mailbox can be automatically created at the same time. The Essentials server syncs passwords with Office 365, helping end users enjoy a seamless sign-on experience whether they are accessing local or cloud-based resources.



Integration with Microsoft Azure Backup

Integration with Microsoft Azure Backup complements your local server backups with a cloud-based service that stores your business-critical data in a highly secure, offsite datacenter.

Critical Data Protection



File History

File History periodically (every hour by default) scans the file system for changes and creates a copy on the server. It simplifies the recovery of files, accidentally deleted or overwritten, without the need for an administrator's assistance.



Client Computer Backups

Configured to run daily on each PC that's connected to the Essentials environment, client computer backup stores your backup data centrally on the server. This type of automatic protection enables you to restore individual files and folders, or an entire PC, as you would do when replacing a faulty hard drive or upgrading from an older hard disk drive.



Server Backup

You can add a hard disk drive to the server, either internally or externally, and designate it as a backup destination as opposed to server storage. Windows Storage Server 2012 R2 Essentials will then use this drive to back up all the data stored on the server, including both the operating system files and your business data.



NTFS Online Scan and Repair (CHKDSK)

CHKDSK in Windows Storage Server 2012 R2 Essentials introduces a new approach that prioritizes volume availability and allows for the detection of corruption while the volume remains online with data available.



Robust Windows Server Security

Flexible anti-virus support and complete disk protection with BitLocker Drive Encryption for robust data protection.

Centralized Management



Essentials Administrative Dashboard

The Dashboard is the command and control center for Windows Storage Server 2012 R2 Essentials. Designed with a streamlined look and feel and enhanced with improved functionality, the Dashboard is used to perform all the management and maintenance tasks you need to control how your server behaves on your network.



Launchpad

The Launchpad is a small application that provides authenticated users with access to key features of the server, including shared files and media, add-ins, and Remote Web Access. The Launchpad also provides real-time information and notifications about the health of the computer.



Printer Server Support

Print Services enables you to share printers on a network, as well as to centralize print server and network printer management tasks. It also enables you to migrate print servers and deploy printer connections using a Group Policy.



Health Monitoring

Health status notifies you of issues or problems related to computer backups, server storage, low disk space, and more. Health reports can be automatically generated on a scheduled basis and emailed directly to local administrators or external partners.



No Windows Server CALs Required

No Windows Server Client Access Licenses (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.



Directory Services

Windows Storage Server 2012 R2 Essentials offers an affordable server solution that can be used as the primary infrastructure server in multi-server environments.



User Groups Management

You can create user groups and add user accounts to them. User account permissions can be managed through their user group memberships.

Top Storage for 1-50 Employee Business



Secure and Fast Remote Access



Remote Web Access (RWA)

RWA enables end users to work remotely from virtually anywhere using almost any device. A website for RWA delivers a highly secure way for users and administrators to use their web browser to access files and folders, client computers, and the servers running in your environment.



Remote Domain Join

Windows Storage Server 2012 R2 Essentials turns setting up virtual private networking (VPN) into a painless wizard-driven process of just a few clicks, and simplifies the management of VPN access for users. Client computers can leverage a VPN connection to remotely join the Windows Storage Server 2012 R2 Essentials environment without the need to come into the office.



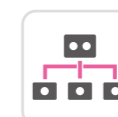
My Server App

My Server app provides a modern and touch-friendly way for end users to access files and folders, as well as perform light administration tasks. The app runs on Windows and Windows RT desktops, laptops, and tablet devices.



BranchCache

BranchCache can help you optimize Internet usage, improve performance of networked applications, and reduce traffic on your wide-area network (WAN).



SMB Multi-channel

SMB Multichannel enables file servers to use multiple network connections simultaneously. It facilitates aggregation of network bandwidth and network fault tolerance when multiple paths are available between the SMB 3.0 client and the SMB 3.0 server.

