



An enterprise class storage solution
The AS7012RD / AS7012RDX is a high performance network storage solution that effectively simplifies data management, is optimized for virtual environments and offers bulletproof protection for critical digital assets.

AS7012RD / AS7012RDX

- Complete iSCSI/IP-SAN and NFS support. VMware, Citrix and Hyper-V ready.
- Windows ACL support combined with Windows AD infrastructure enhances management efficiency for business applications
- Support for RAID 0, 1, 5, 6, 10 and hard drive hot swapping

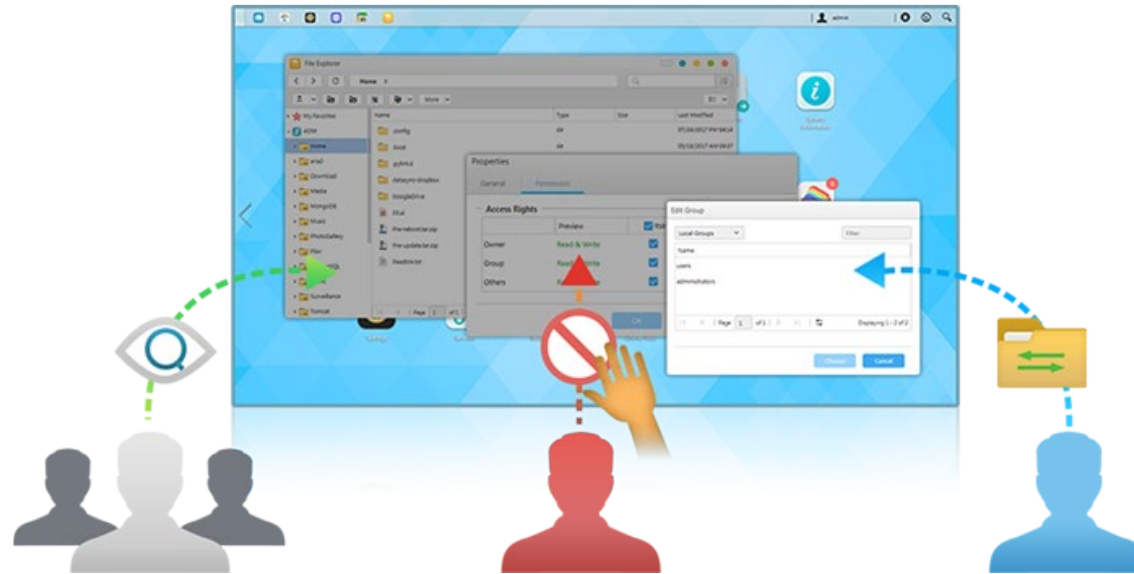
- 10GbE Ethernet card and memory expansion slots allow for further expansion as the need arises
- New disk tray locks ensure that hard disks will not be accidentally ejected during operation
- SMB 2/3 support increases Windows networking performance by 30%-50%



Advanced File Permissions Management - Windows ACL

For IT professionals, file permissions configuration is a very important topic, especially in enterprise environments. Because the native Linux system file permission mechanisms are different than those in Windows, in the past, IT professionals had to create a separate set of permissions for files stored on NAS servers. This also limited the number of permission configuration options that were available to them.

In order to help IT professionals simply their work, ASUSTOR has comprehensively integrated Windows ACL into ADM. Windows ACL provides a set of 13 different permissions settings, allowing administrators to configure permissions for individual files and folders that can be applied to different groups and users. Windows ACL permissions can be configured from within ADM's File Explorer or Microsoft Windows Explorer allowing administrators to easily manage permissions using familiar methods.



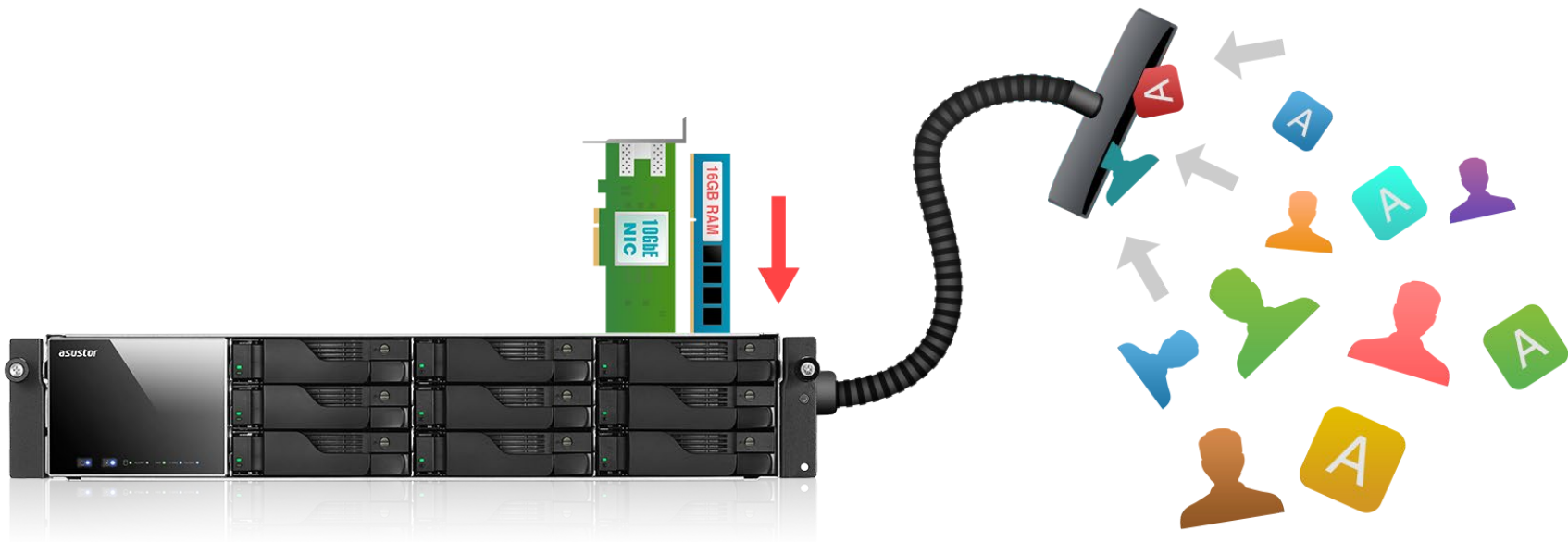
Meeting the Expansion Needs of Tomorrow, Today

The scale of a business's Internet usage will shift in the wake of its expansion and development. A server that is providing stable service to 100 people today may not be able to handle the needs of tomorrow when the number of employees or applications expands, forcing the business to purchase additional equipment.

ASUSTOR's 70 Series devices help businesses meet the expansion needs of tomorrow, today. All devices in the series come equipped with 10GbE network card expansion slots¹². Should a business decide to upgrade to an ultra-high-speed backbone network, the 70 Series devices will be able to seamlessly take advantage of this without being limited by the built-in gigabit Ethernet ports.

Furthermore, when more and more people start to access the NAS or when the number of installed applications increases, the amount of installed memory will be one of the limiting factors affecting the overall performance of the NAS. The AS7012RD and AS7012RDX both come with 2GB of built-in memory which can further be expanded to a maximum of 16GB². Equipped with such flexible expansion features, ASUSTOR's 70Series NAS devices are the optimal choice for any growing business.

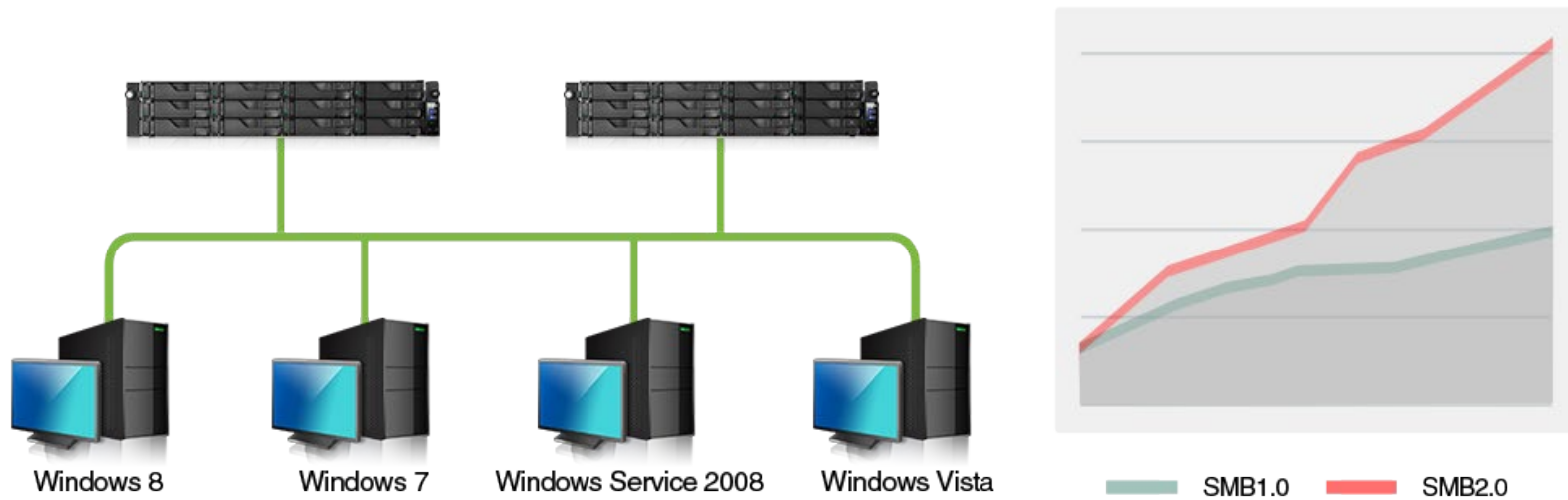
1. The AS7004T does not include a 10GbE network card expansion slot.
2. For a full list of compatible 10GbE network cards and memory, please visit: <https://shop.asustor.com/>



A Surge in Data Transfer Performance

ADM 2.6 supports SMB 2.0 which reduces the burden of network traffic on the NAS while simultaneously providing greater data transfer capacity. In the ASUSTOR testing environment, SMB 2.0 was found to increase Windows networking performance by 30%-50%*. SMB 2.0 also significantly increases the number of concurrent Windows client connections and simultaneously open files, making ADM 2.6 even more suitable for large-scale Microsoft network environments.

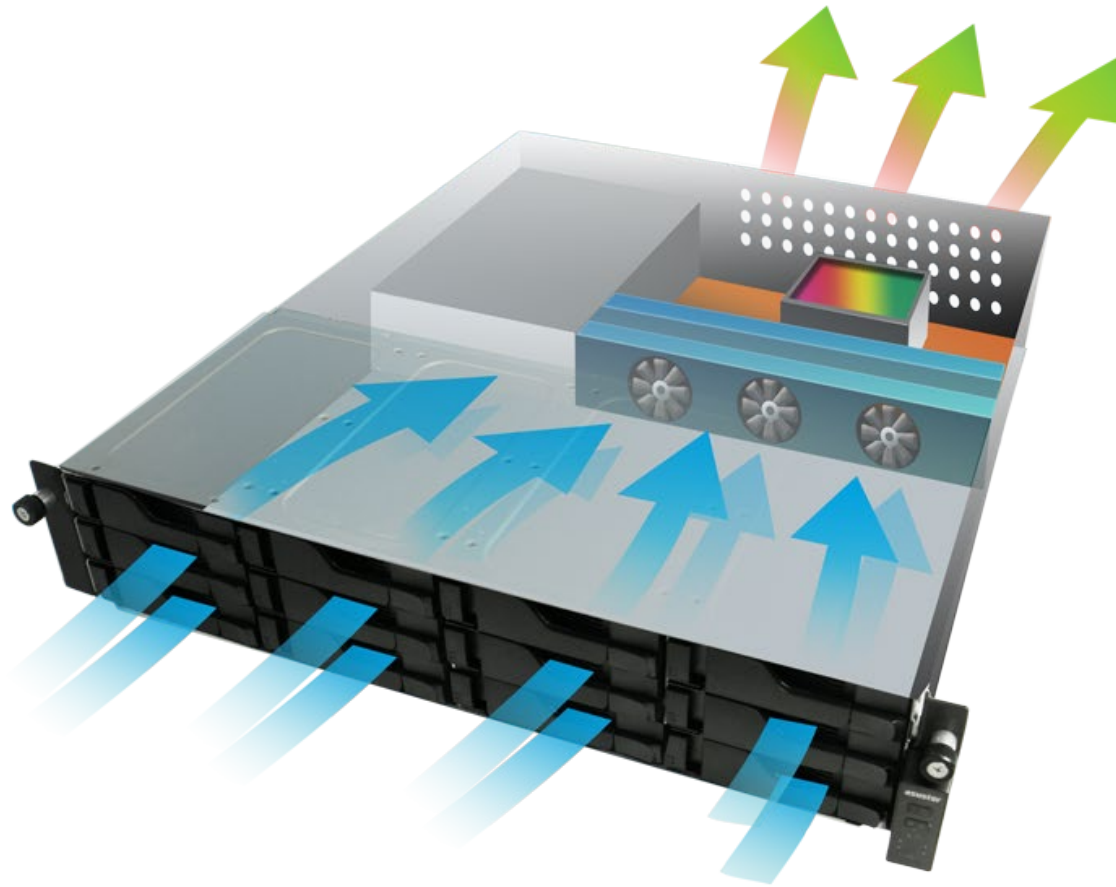
* Actual performance may vary due to differences in the installation environment. SMB 2.0 is supported in Windows Vista and later versions of the Microsoft Windows operating system.



Optimized Cooling Design

When there is a high load on the NAS, the CPU will begin to heat up, affecting the stability of the system. A common way of dealing with this is to lower the CPU frequency which will then cause the temperature to decrease. However, this will also lower the overall performance of the system.

ASUSTOR's 70 Series devices utilize fans with wide speed ranges combined with a smart speed control mechanism that allows the CPU to maintain a controlled operating temperature even under high loads. Under most circumstances the fans will operate at a low speed, conserving energy. When the system load and temperature increases, the fans will automatically increase their speed to cool the CPU without it having to lower its frequency. This allows the NAS to maintain stability and high performance even under high loads.



Enterprise Backup

The AS7012RD / AS7012RDX features comprehensive backup solutions. The built-in redundant power supply and 4 Gigabit Ethernet ports effectively increase reliability, data integrity and execution speeds. The Ethernet ports and power supply all feature failover capabilities (when one fails, the other can continue to operate) in order to ensure for continuous data availability.



Create a Stable, Reliable and High Quality Surveillance System

The powerful 70 Series devices provide you with stress free reliability when installing a surveillance system in your home or office environment. Installing the Surveillance Center App from App Central instantly turns your NAS into 24/7, high definition surveillance system. Surveillance Center provides comprehensive cross-platform support, allowing both Windows and Mac users to use familiar web browsers to access their surveillance feeds. Furthermore, ASUSTOR also offers the free AiSecure mobile app that gives users access to all their surveillance feeds while on the go. AiSecure also provides the ability to receive instant push notifications from Surveillance Center, allowing users to keep up with the latest developments. No matter if you need to protect individual assets, loved ones or your business, the powerful 70 Series devices are your optimal choice when creating a comprehensive surveillance system.

*Surveillance Center comes with 4 free IP camera channel licenses, which is higher than the industry standard. Users can also purchase add-on camera licenses to flexibly add new camera channels.

*Two different camera license packages are offered: single channel and 4 channels. Currently, the 70 Series devices can be expanded up to a maximum of 64 channels.

*The maximum number of cameras is based on the test results for each channel using 720P (1280x720), 30 FPS and H.264. Actual performance may vary due to camera settings and NAS load.



Ultimate data protection

ASUSTOR NAS makes use of RAID storage technology to provide protection for your data. RAID mainly revolves around the core concept of combining your disks to protect the data inside. ASUSTOR offers a number of different RAID level configurations that you can choose from when creating storage volumes. Each RAID level offers a differing degree of data protection, system performance and storage space. ASUSTOR's supported RAID levels are summarized in the chart below:



RAID LEVEL	Single	JBOD	RAID 0	RAID 1	RAID 5	RAID 6	RAID 10
Minimum number of disks	1	2	2	2	3	4	4
Faulty Disks Tolerated	x	x	x	1	1	2	1
Increased System performance	x	x	v	x	v	v	v

Maximum use of Storage space

V	V	V	X	X	X	X
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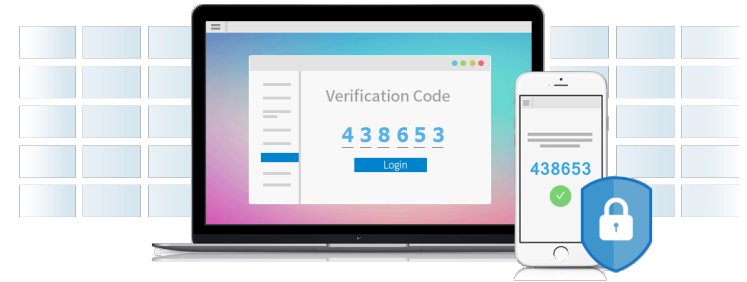
Strengthen ADM Account Security

2-Step verification provides additional security for your ADM account. After configuration, in addition to your ADM account password, you will also need a phone verification code to sign in to ADM. With 2-step verification, you can protect ADM account privacy and ensure data security with both a password and your personal mobile device.

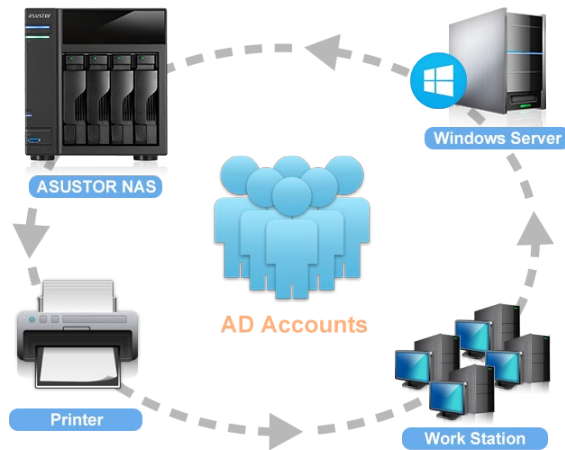
Supported authentication app:

Windows phone: Authenticator

Android iOS Blackberry: Google Authenticator



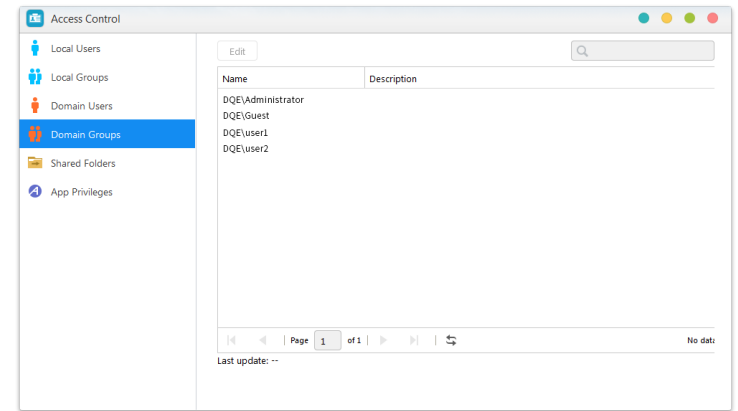
Seamless integration



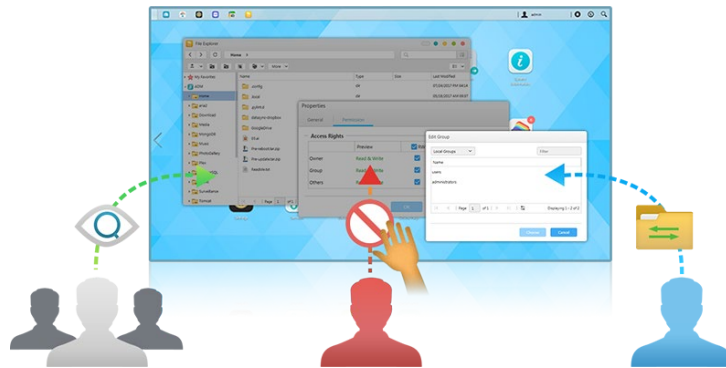
Windows Active Directory (AD) is a directory service created by Microsoft, widely used by many corporations, that allows IT administrators to centralize and manage resources over a network. Understanding the account integration needs that businesses have, ASUSTOR has ensured that all its NAS devices are able to seamlessly integrate with Windows AD. After an ASUSTOR NAS has been successfully added to a Windows AD domain, AD users will then be able to use their own AD accounts to log in to and access the NAS. This provides simple and efficient management for IT staff as they do not need to create new accounts for every NAS added to the domain.

Easy management

Managing large scale IT environments have always been the heaviest burden for IT managers. ASUSTOR has made continuous efforts in this area to help IT staff simplify their responsibilities and reduce their burden. ADM's easy to use interface provides management tools for network users and groups, allowing IT administrators to configure different folder access rights for each Windows AD user and group.



Extending Windows permissions management to your NAS

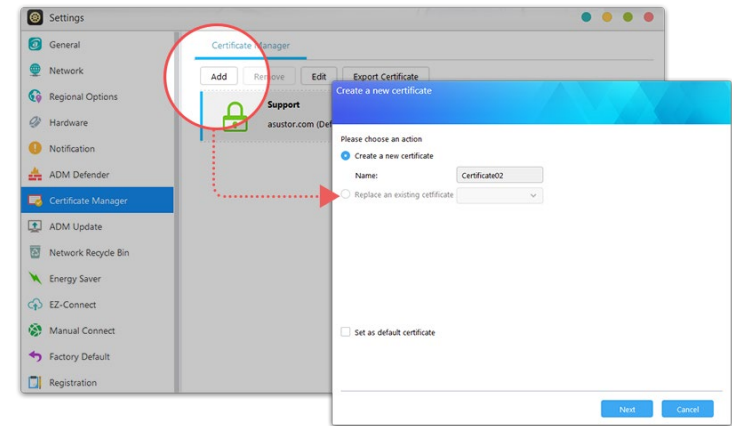


ASUSTOR NAS provides comprehensive support for all 13 Windows ACL file permissions, allowing for close integration with AD domains and providing simplified IT management and increased productivity. According to needs, IT professionals can enable and disable Windows ACL for specific shared folders and can use ADM File Explorer or Windows Explorer to configure permissions. Configured ACL permissions can be applied to Samba, File Explorer, AFP, FTP and WebDAV protocols, avoiding the need to configure permissions for each individual protocol and avoiding human errors that could cause access leaks. Furthermore, in order to allow files to maintain their original ACL settings after they have been moved to the NAS, ASUSTOR NAS supports the free 3rd party software FastCopy, for this unique job.

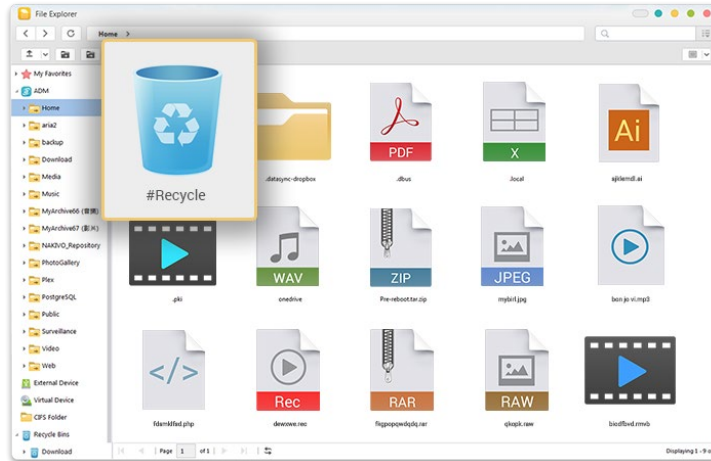
Supports Let's Encrypt

Let's Encrypt (<https://letsencrypt.org/>) is a free, automated, and open certificate authority (CA), that provides a trusted certificate for free to anyone who owns a domain name. Let's Encrypt issued certificates are recognizable by all Web browsers. The Certificate Manager in ASUSTOR NAS can directly connect to Let's Encrypt to generate a valid certificate and install it automatically. This helps you to enhance NAS security with an

SSL connection in a fast and easy way at zero cost. Moreover, before the Let's Encrypt issued certificate expires, Certificate Manager can be configured to perform an automatic renewal.



Enhanced Recycle Bin mechanism

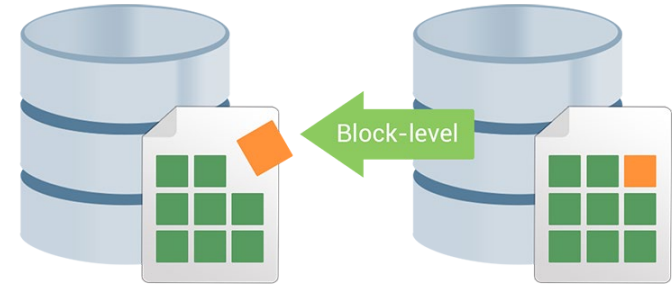


The Network Recycle Bin mechanism has been updated in ADM 2.5.2 and is now based on individual shared folders rather than storage volumes. According to their needs, users can decide whether or not to enable a Network Recycle Bin for each individual shared folder, enjoying added configuration flexibility. Files that are moved to the Recycle Bin maintain their original directory structure, allowing added convenience should users need to search for already deleted files. The simple one-click restore function will restore selected files to their original directory path while conveniently maintaining all properties and permissions settings.

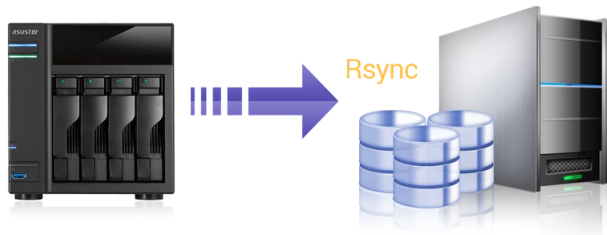
The ultimate tool for remote backup

Rsync is an application originally developed for UNIX that is usually used for backup and sync between two computers. By providing block level replication, Rsync is able to offer incremental backup. Incremental backup allows for successive backup jobs (after your first backup job) to only copy data that has changed since your last backup job. Rsync is suitable for use with files and data that are always changing. It lets you cut down on

backup time while significantly reducing bandwidth usage.



A rich and flexible backup solution



ASUSTOR's Rsync Backup function supports two-way data transfers, incremental backup, encrypted backup and also the scheduling of your NAS to perform regular backup jobs. It effectively simplifies data backup while also substantially reducing the burden on IT staff. ASUSTOR's Rsync backup function may be used to complete tasks such as:

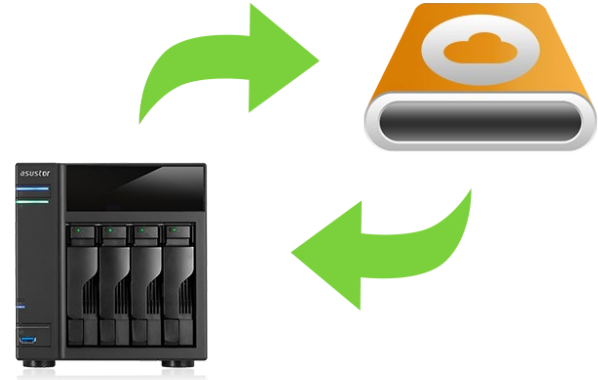
- The transfer or backup of data from your NAS to an Rsync compatible server
- Initiating downloads of the data from an Rsync compatible server to your NAS

Regular backups of your vital data

ASUSTOR's built-in RAID storage technology can provide a certain level of data protection, but regularly backing up the data on your NAS is also very important.

The External backup function supports two-way data transfers, incremental backups and also the scheduling of your NAS to perform regular backup jobs. It may be used to complete tasks such as:

- The transfer or backup of the data from your NAS to an external device.
- Initializing the copying of data from an external device to your NAS



Ideal off-site backup solution



Using the internal backup function allows users to completely utilize the SATA interface's 6Gbps high speed transfers to backup data to MyArchive hard disks. No matter if it's confidential data storage or the archiving of video recording files, all can be scheduled to be backed up to MyArchive hard disks and then transferred to a secure location for safekeeping, meeting the goals of limitless expansion and off-site backup.

Set and forget

ASUSTOR's Backup Plan software for Windows provides you with worry-free backup. Simply schedule a regular backup job of your PC to your NAS, then let Backup Plan take care of the rest. Backup Plan will work in the background to ensure that your PC is always backed up.

Mode	Plan Name	Last Backup	Next Backup	Shut Down	Status
Once	Plan 1	2016/4/28 10:35	--	--	Complete
Synchroni	Plan 2	--	--	--	Waiting
Schedule	Plan 3	--	2016/4/28 0:0	None	--
Once	Plan 4	2016/4/28 10:40	--	--	Complete
Once	Plan 5	2016/2/10 07:35	2016/3/10 07:35	--	35%
Synchroni	Plan 6	2016/3/12 05:45	2016/2/10 07:35	--	Complete
Once	Plan 7	2016/5/10 13:35	2016/5/10 13:35	--	Complete
Schedule	Plan 8	2016/5/12 15:23	2016/4/12 15:23	--	80%
Synchroni	Plan 9	2016/6/15 08:15	2016/5/15 08:15	--	Waiting

Optimized for your Mac



Mac lovers rejoice! You can use your Mac's built-in backup, Time Machine, to easily back up your Mac to an ASUSTOR NAS. All ASUSTOR NAS devices have been optimized for use with Time Machine, providing Mac lovers with a familiar and easy to use backup solution.

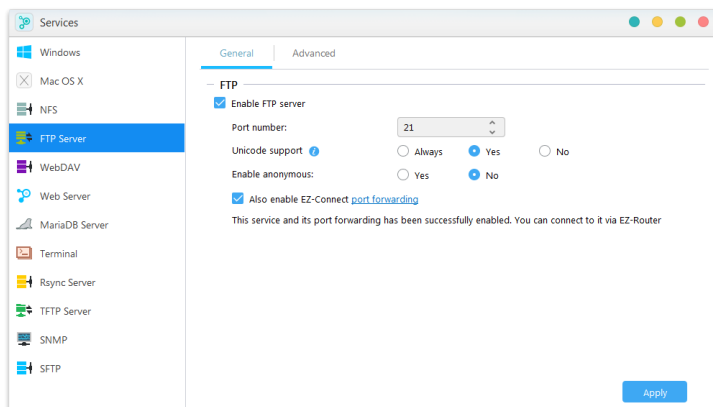
Mission Mode

Never again worry about your critical backup jobs stopping or failing to complete because your ASUSTOR NAS won't stop until it's 'mission complete'. Sometimes backup jobs may be stopped because of various connection problems with a busy server on the other end.

For Rsync, FTP, external and cloud backups, ASUSTOR's Mission Mode allows you to configure the number of connection attempts and time interval for connection attempts, ensuring for the successful completion of your backup mission. This also gives IT administrators a significant amount of flexibility when configuring backup jobs.



Your own FTP server



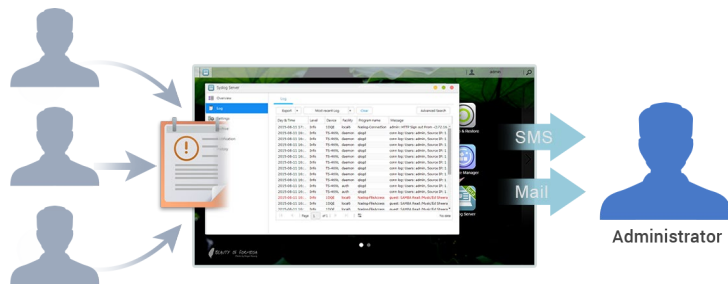
FTP is one of the most widely used and popular transfer protocols in the world. Every ASUSTOR NAS has a built-in FTP server feature that allows you to create a personal FTP server in just a matter of seconds. Hosting your own FTP server will instantly give you the power to share and exchange files over the internet.

A cost-effective and efficient mail service solution

The ability to send and receive email is fundamental to all businesses. However, expensive implementation costs and complicated management create barriers for most small and medium sized businesses. ASUSTOR's Mail Server offers a comprehensive and cost-effective solution that allows any business to easily maintain their own dedicated mail server.



Effectively simplifying network management



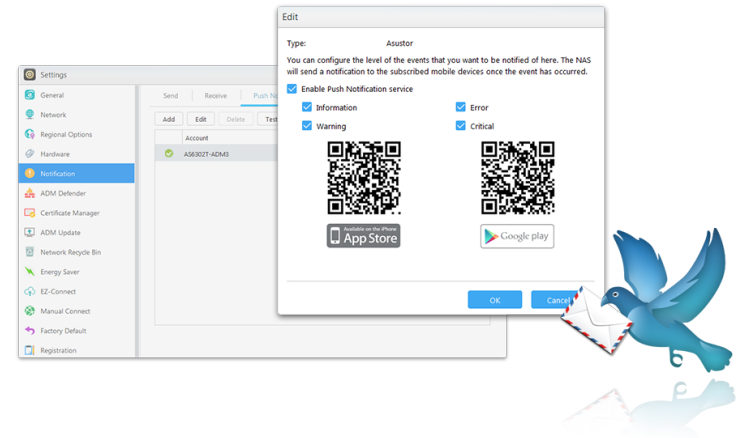
Syslog Server supports standard Syslog protocols and can centrally aggregate system logs that are spread out over various network devices for storage and management. Furthermore, Syslog Server integrates with the NAS's Instant Notification function, allowing administrators to receive e-mails or SMS notifications when specified events occur, in order to quickly employ appropriate measures.

Enjoy peace of mind

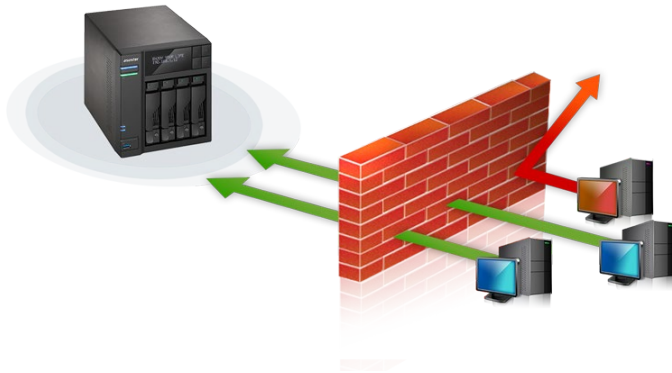
Always checking up on your NAS? Worried about your data and other digital assets? ASUSTOR NAS features real-time system event notifications allowing you to enjoy peace of mind knowing that you'll be notified about any major system events. Notifications can be sent via Email, SMS or push notification giving you a variety of ways to instantly stay on top of the latest developments.

Supported Email service provider: Google, Microsoft, Yahoo, Others (self-defined)

Supported SMS service provider: Clickatell, Pushbullet



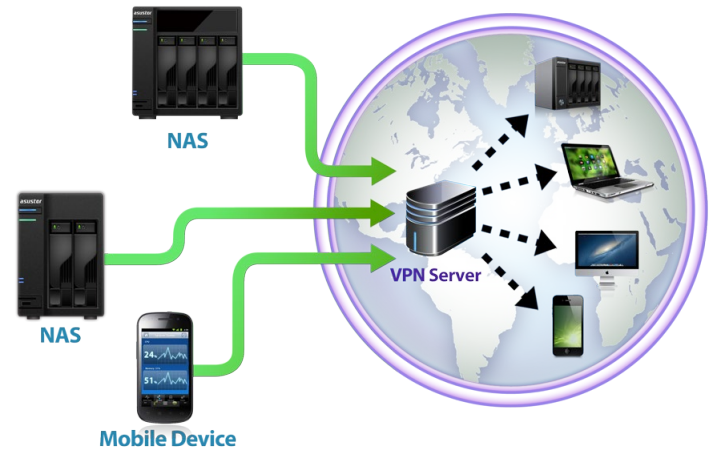
Firewall



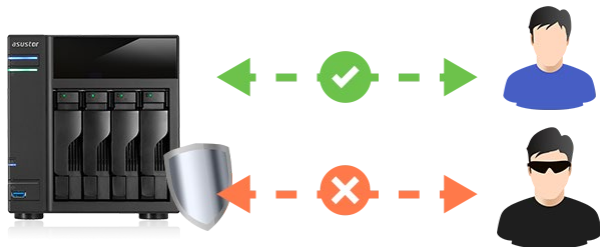
Use ADM Defender's firewall to control access to your NAS. Ensure the security of your system by deciding who has access to your NAS and who doesn't.

Secure connections

ASUSTOR NAS supports VPN connections giving you secure access and flexible deployment options. Your NAS is able to act as a VPN client which can then connect to VPN servers via PPTP or OpenVPN protocols, allowing you to gain access to different virtual private networks. ASUSTOR NAS also supports the creation of multiple VPN connection profiles allowing you to easily switch connections between different VPN networks.



Network Defender



ADM Defender's Network Defender function protects you from malicious attacks and prevents hackers from trying to access your NAS. Any client IP addresses with too many unsuccessful login attempts to your NAS within a specified time period will be blocked by Network Defender.

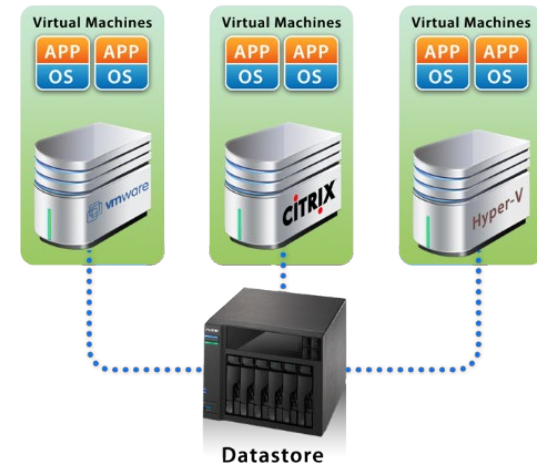
Unified Storage

iSCSI and NFS are primary datastore solutions for virtual environments and are also important in spreading the use of virtualization as a whole. When compared with other storage mediums, ASUSTOR NAS can offer an optimal price/performance ratio and value which is of particular importance to small and medium businesses.

Comparison between Unified Storage and traditional storage devices:

	FC SAN	iSCSI	NAS (NFS, CIFS)	Unified Storage
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Performance	Excellent	Good	Good	Good
Protocol Level	Block	Block	File	Block & File
Cost	\$\$\$\$\$	\$\$\$\$	\$\$	\$\$\$



Military Grade Encryption



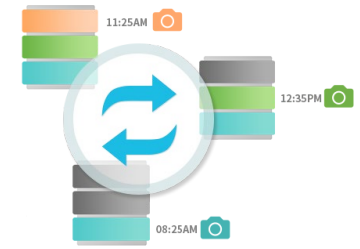
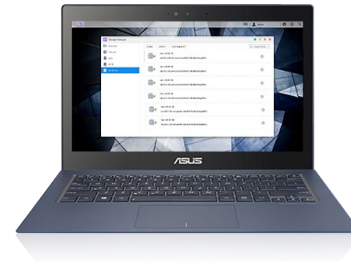
Your most important data deserves the best security. ASUSTOR NAS offers folder based military grade AES 256bit encryption, giving you the type of security and privacy that you require for your most confidential data. All data stored in encrypted folders will be automatically encrypted and secured to the highest of standards. Should you ever lose your NAS or hard disks, you still needn't worry about your sensitive data falling into the wrong hands.

iSCSI LUN Snapshots

Stable, fast and capacity-saving

ASUSTOR's snapshot technology provides almost instantaneous creation of snapshots. It

saves a significant amount of time and storage capacity when compared with traditional LUN backups. Should files become damaged or corrupted, the simple and intuitive interface allows administrators to quickly restore data, completing disaster recovery in the fastest time possible and providing uninterrupted service.



No more waste



Still wasting money and time burning CDs or DVDs every time you need to install some software? ASUSTOR NAS supports the mounting of ISO files which provides you with a cost effective and environmentally friendly solution that effectively lowers CD and DVD waste.

External Optical Drive Support

After connecting an external optical drive (CD, DVD, Blu-ray) to your NAS via USB, you can use File Explorer to directly access any files that you have backed up to optical media and even transfer files from your optical media to your NAS via drag and drop for future access.

Note:

1. This function only provides data access and does not support the audio and video playback of optical media.
2. Certain optical drives will require additional power in order to operate properly. If you find that your optical drive is not spinning or reading correctly, please use a USB Y-cable to add additional power.



Unleash unlimited potential



The applications that come pre-installed with each ASUSTOR NAS device are just the beginning. At your convenience, you can browse through and download any applications that pique your interest from App Central. App Central allows you to explore the unlimited potential of ASUSTOR NAS devices while creating a personalized NAS device for yourself.

Keep an eye on it

Worried about leaving your home unattended? Keep an eye on the most important things with Surveillance Center. Surveillance Center's fully optimized interface allows you to simultaneously view live feeds from up to 4 IP cameras, take snapshots and control the pan tilt and zoom functions of all cameras giving you complete peace of mind.



The best things in life are free



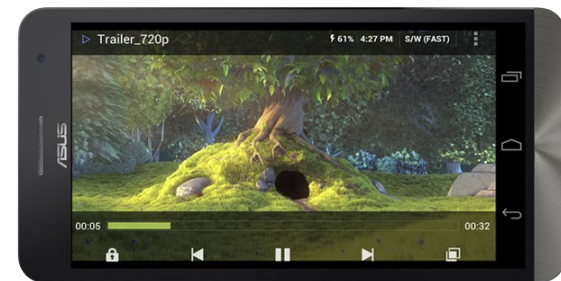
ASUSTOR's Surveillance Center comes with 4 license free channels letting you to setup 4 different network IP cameras. This significantly lowers startup costs for your surveillance system. No matter if you prefer to use Microsoft Internet Explorer, Mozilla Firefox or Google Chrome, Surveillance Center's easy-to-use browser based interface and quick start wizard will allow you to create a security surveillance system in a snap.

A movie theatre in the palm of your hand

AiVideos brings you the smoothest mobile video viewing experience around. Browse through the video collection on your NAS without needing to wait for long downloads. Enjoy high-definition 1080p streaming video with just one click. You can even select multilingual subtitles and different audio channels to enjoy films in different languages, bringing the movie theatre to your mobile device.

*Recommended to be used with [MXplayer](#)

Supported mobile: Android only



Enjoy more offline video content



You can even view videos offline! Download videos from your NAS to your phone in a just a few taps without needing to connect an external USB cable.

Sometimes you may encounter unstable Wi-Fi reception causing long wait times for your downloads. At this time you can switch to a more stable Wi-Fi signal and AiVideos will resume your downloads from where they were interrupted. With this convenient feature, you no longer need to worry about half-downloaded files!

Stay Connected to Everything You Care About with AiSecure

The AiSecure dedicated mobile app allows you to easily keep an eye on everything that is happening at home. In addition to monitoring live views of particular locations, AiSecure also features instant push notifications that can be sent to your mobile device when specified events occur, allowing you to grasp all the latest developments in the palm of your hand.



Simple to Set Up

AiSecure dramatically simplifies the connection process to your surveillance feeds.* After enabling Cloud Connect on your NAS, you will be able to use your dedicated Cloud ID to connect to Surveillance Center, allowing you to easily monitor all the important things in your life from any corner of the world.

*AiSecure provides 3 different connection methods:



1. Connecting via Cloud ID.
2. Connecting via Auto Discovery to ASUSTOR devices on the same network.
3. Connecting via IP/Hostname.

Your mobile cloud data manager

Get access to your data in the cloud and on your NAS from the convenience of your mobile device with ASUSTOR's AiData mobile app. With its intuitive interface and incorporation of well-known cloud storage services, AiData allows you to manage all the files on your NAS and across the cloud.



Convenient features

AiData features a host of convenient features to enrich your digital lifestyle. Use your mobile device to rename, copy, move or delete data on your NAS. Save items as favorites for quick offline browsing while on the go or upload your photos directly from your phone to your NAS. Have a file on your NAS that you want to share? Instantly email download links to your friends and family. AiData's features truly let you take advantage of your personal cloud.





Intuitively integrated

You can download data from your NAS to any folder on your Android/iOS device or upload files from folders on your Android/iOS device to your NAS. Now, data on your NAS and the rich variety of apps on your mobile devices can be more closely integrated than ever before.

When browsing through the substantial amount of data on your NAS, you can choose to list files in ascending or descending order according to filename, size or date modified, giving you better organization when managing files.



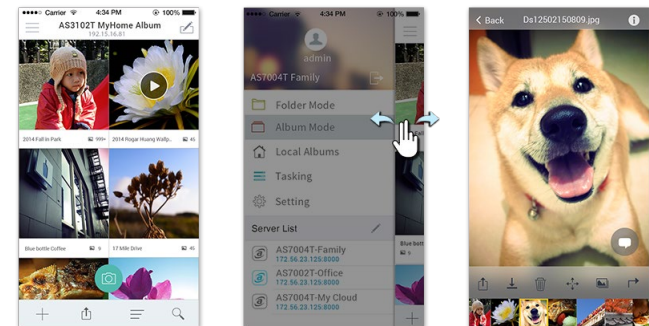
Enhanced Mobile Privacy Protection



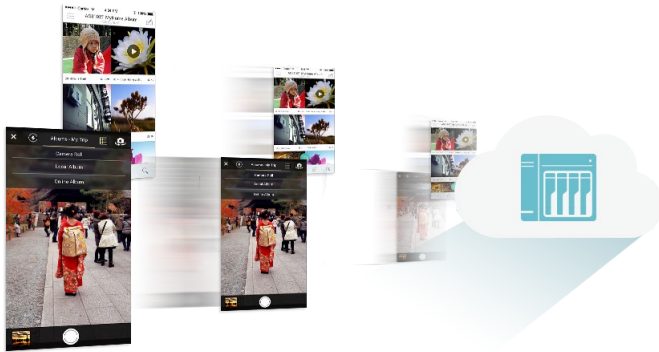
Worried about losing your phone and accidentally giving someone full access to all the data on your NAS? Passcode protection is your first line of defense. When using passcode protection, you will need to enter a correct passcode before being able to use an ASUSTOR mobile app. This significantly enhances mobile privacy while ensuring that you won't have to worry about accidentally giving someone access to your NAS.

The most intuitive way to browse through your photos

AiFoto presents each photo using refined thumbnail previews. Effortlessly browse through all your favorite memories stored on your NAS with just the swipe of a finger.



Automatic photo uploading

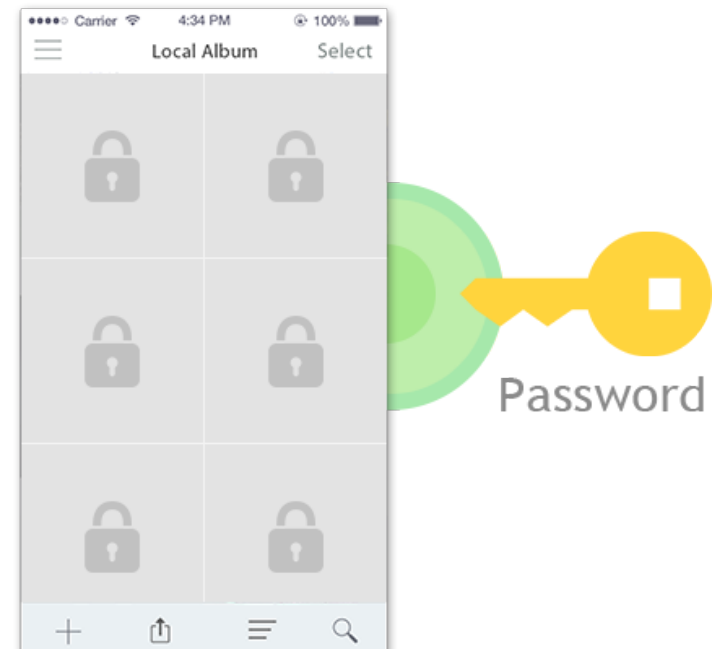


The automatic camera roll upload function ensures that you will never have to worry about how to backup your photos. Let AiFoto automatically take care of your backup needs! You can also open an online album and take photos that will be automatically uploaded to the album, giving you easy organization of your photos.

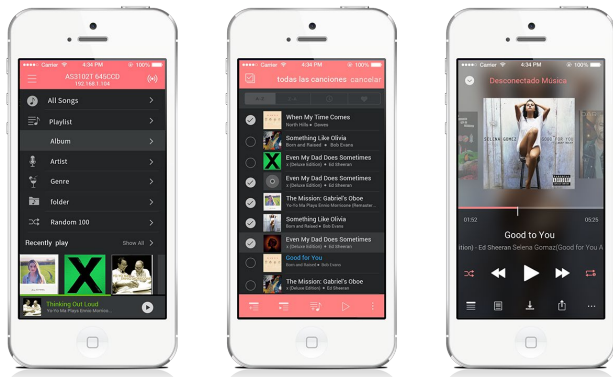
*Note: Due to the limitations of iOS, iOS apps cannot perform automatic photo uploading background tasks for more than 3 to 10 minutes. Please keep the app running when trying to upload photos.

Offline album encryption

People will always be curious. Protect your privacy with password encrypted offline albums to create a private space that belongs to you and you alone.



Terabytes of music in the palm of your hand



AiMusic allows you to stream music from your NAS to your mobile device, letting you enjoy your entire music collection while on the go.

A variety of listening experiences

Play music from playlists that you create yourself for an optimal listening experience. Like listening to random songs? AiMusic's Random songs play mode is your best friend! You need only select it once to create a random playlist from your entire music collection, allowing you to enjoy a new listening experience each and every time.



Listen to your favorite songs while offline



AiMusic also allows you to download songs from your NAS to your mobile device for offline listening. No matter if it is a single song, an album or an entire playlist, all can be easily downloaded to your mobile device for convenient listening.

Download on the go

Imagine the convenience of downloading while on the go and then having your downloads ready as soon as you get home. With ASUSTOR's AiDownload, all this is possible and more. AiDownload is a mobile app that works with ASUSTOR's Download Center to provide you with download management on mobile. Searching, downloading, configuring and monitoring can all be done with AiDownload. Torrent* magnets also automatically add download tasks to AiDownload, making downloading easier than ever!



NAS management at your fingertips



AiMaster is ASUSTOR's NAS management app for mobile devices that allows you to easily control all your NAS devices no matter if you are a home user or IT administrator.

Instant notifications

AiMaster features real-time system event notifications allowing you to monitor your system status from the convenience of your mobile device. When certain events occur, notifications are sent to your mobile device in the form of push notifications helping you stay abreast of all the latest developments.



Stay in sync with your NAS

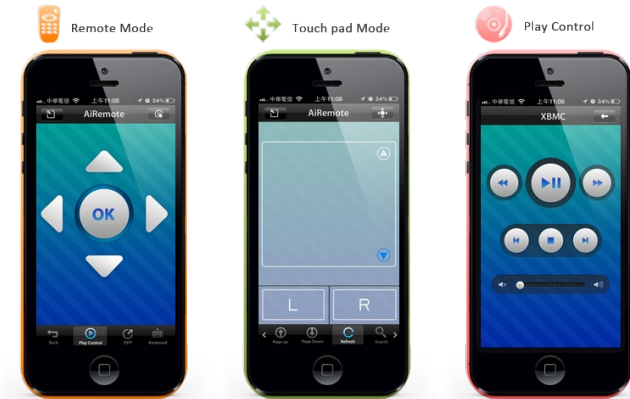


With AiMaster you are never far from your NAS. Manage all your services, applications, and backup jobs at any time and from any place. Execute one touch backup jobs and monitor all users and system status. Even use the Find Me function to locate your NAS among many. All this is possible and more with AiMaster.

Your mobile device as your remote

Now your phone can become a remote control for the ASUSTOR Portal.

AiRemote allows you to control all types of functionality on the ASUSTOR Portal. From the basic up, down, left, right controls used with the ASUSTOR Portal interfaces to the play, pause, rewind, fast forward and volume controls used when playing videos, AiRemote has got you covered.



Hardware Specifications

AS7012RD / AS7012RDX

CPU

- AS7012RD: Intel® Core i3 3.5GHz Dual-Core Processor
- AS7012RDX: Intel® Xeon E3 3.4GHz Quad-Core Processor

Memory

- AS7012RD: 4GB UDIMM DDR3 (Expandable. Max 32GB)
- AS7012RDX: 4GB ECC UDIMM DDR3 (Expandable. Max 32GB)



HDD	12 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD
Expansion	USB 3.0 x 4, eSATA x 2, 2 x for optional expansion 10-GbE / SAS card
Maximum Drive Bays with Expansion Unit	24
Size	88(H) x 439(W) x 535(D) mm

Power Consumption

AS7012RD:

122 W (Operation)
54.8 W (Disk Hibernation)
4.09 W (Sleep Mode)²

AS7012RDX:

123 W (Operation)
55.6 W (Disk Hibernation)4.13 W (Sleep Mode)²

Software & Features

Operating System

- ADM 3.1 Onwards
- Supports Online Firmware Updates

Supported OS

- Windows XP, Vista, 7, 8, 10, Server 2003, Server 2008, Server 2012
- Mac OS X 10.6 Onwards
- UNIX, Linux, and BSD

iSCSI Read/Write (5GB file, 1GbE x 1)/IP-SAN

- Maximum Targets: 256
- Maximum LUNs: 512
- Maximum Snapshot Versions of a Single LUN: 256
- Target Masking
- LUN Mapping
- ISO File Mounting

Network Recycle Bin

- Share folder-based
- Maintains original directory structure and file permission
- On-click restore
- Supports scheduled emptying
- Filtering rules
 1. File size
 2. File extension



Supported Languages

- Deutsch, English, Français, Italiano, Nederlands,Русский, 日本語, 한글, 简体中文, 繁體中文, Česká, Polski, Svenska, Dansk, Norsk, Suomi, Português, Türkçe, Español, Magyar

Supported Browsers

- Internet Explore 11 Onwards
- FireFox
- Chrome
- Safari
- Microsoft Edge

Virtualization

- VMware ready
- Citrix ready

Network Protocols

- CIFS / SMB, SMB 2.0 / 3.0, AFP, NFS, FTP (Unicode Supported), TFTP, WebDAV, Rsync, SSH, SFTP, iSCSI/IP-SAN, HTTP, HTTPS, Proxy, SNMP, Syslog

File System

- Internal Disk: EXT4
- External Disk: FAT32, NTFS, EXT3, EXT4, HFS+, exFAT

Supports MPIO

- Persistent (SCSI-3) Reservations

Customized Sign In Page

- 2 Different Template Choices
- Customizable Title, Image and Background
- Image Import Function

Disk Management

- Scheduled Bad Block Scans
- Scheduled S.M.A.R.T Scans

Energy Control

- Configurable Disk Hibernation and Sleep Mode Wait Time
- Configurable Time Period for Sleep Mode Activation
- Automatic Sleep

Network

- TCP/IP (IPv4 & IPv6)
- Link Aggregation: Supports 802.3ad and Six Other Modes for Load Balancing and/or Network Failover
- Jumbo Frame (MTU)
- VLAN
- EZ Connect
- Wireless Network³
- DDNS and EZ-Router
- Supports Wake-on-LAN (WOL)

Backup Solutions

- Rsync (Remote Sync) Backup
- Cloud Backup
- FTP Backup
- External Backup

Access Control

- Maximum Number of Users: 16384
- Maximum Number of Groups: 512
- Maximum Number of Shared Folders: 512
- Maximum Number of Concurrent Connections: 2048
- Supports Windows Active Directory
- Supports Windows Active Directory / LDAP

ACL

- Provides both Windows ACL and Linux ACL permission configuration methods
- Can enable Windows ACL for specific shared folders
- Comprehensive support for Windows' 13 types of advanced permission settings
- Can view Windows ACL permission settings from within ADM
- Supports local users and groups
- Exclusive permission reset function allows users to quickly restore default permissions

Security

- AES 256-Bit Encryption
- Firewall: Prevent Unauthorized Access
- Alert Notifications: E-mail, SMS
- Encrypted Connections: HTTPS, FTP over SSL/TLS, SSH, SFTP, Rsync over SSH
- Built-in Hardware Encryption Engine: AS70/64/63//62/61/31/32/10 Series

Network Defender

- Auto black list
- Trusted list
- Black/White list
 - Supports IP/IP range/geolocation

Internal Backup Using Internal High Speed SATA's 6GB Bandwidth to Back up to MyArchive/Volume

- One Touch Backup

System Administration

- Log Type: System Log, Connection Log, File Access Log
- Real-time Online User Monitor
- Real-time System Monitor
- User Quota
- Virtual Drive (ISO Mounting, Maximum 16)
- UPS Support

External Devices

- Supports USB/eSATA3 External Storage Devices
- USB Wi-Fi Dongle Support
- Bluetooth Dongle/Speaker Support
- USB Printer Support
- USB DAC/IR Receiver/Keyboard/Mouse Support
- CD ROM Drive/DVD ROM Drive/Blu-Ray ROM

Featured Apps

Antivirus

- Scheduled Scans
- Automatic Virus Definition Updates
- Quarantine Infected Files

ASUSTOR Portal(HDMI Local Output)⁶

- Supports Output for 4 Channels of Megapixel IP Camera Video Feeds
- Support Chrome / Chromium browsers.
- Downloads from Chrome/Chromium Automatically Saved to the NAS
- Power Control Settings: Power on, Sleep, Restart and Wake via Remote
- Customizable ASUSTOR Portal Desktop Wallpaper
- Add Shortcuts to Favorite Websites

Google Drive

- Each ADM Account is Able to Individually Log in to One Google Account
- Supported Backup Methods:
 - Sync
 - Directly Upload Files to Google Drive from NAS
 - Directly Download Files from Google Drive to NAS

HiDrive

- Support OneDrive and OneDrive Business
- Each ADM Account is Able to Individually Log in to One HiDrive Account
- Supported Backup Methods:
 - Directly Upload Files to HiDrive from NAS
 - Directly Download Files from HiDrive to NAS

SNMP Server

- Supports SNMP v1, v2c, v3 and trap
- ASUSTOR NAS MIB provided

Syslog server

- Supports standard syslog protocol
- Graphical log monitoring by time and device
- Supports TCP and UDP
- Auto log archiving
- User-defined email notification

Surveillance Center

- Up to 64 channels in 720p on single live view display
- On-screen camera controls including camera PTZ, manual recordings, take snapshots, configure camera settings and open Maps

Increased TV Compatibility via Overscan and Resolution Settings

- Max. Resolution: 1080p(HD)/2160p(4k)⁷
- ASUSTOR Portal comes preloaded with Netflix and Youtube. Users can install the supplementary URL-Pack to get access to even more popular video streaming sites such as Plex, Vimeo and Youku.
- After installing URL-Pack-Social, users will be able to choose between social media sites such as Facebook, Google+, Hangouts, Pinterest, Twitter, Linkedin, WhatsApp and Instagram.

VirtualBox

- Virtual Machines are Able to run the Following Operating Systems: Windows, Linux, Solaris, Mac OS X
- Virtual Machine Import Format: OVF
- Virtual Machine Export Format: OVF 0.9, OVF 1.0, OVF 2.0
- Virtual Machine Snapshots
- Virtual Machine HDMI Audio Output
- Physical NAS Network Port can be Designated for use by Specific Virtual Machine

Download Center

- Supports BT(Torrent & Magnet Link), HTTP and FTP Downloads
- Torrent Search
- Choose Files Before a BT Task Starts
- Customizable Download Schedule
- Bandwidth Control
- RSS Subscription and Automatic Downloading (Broadcatching)
- ASUSTOR Download Assistant for Windows

Supported Protocols:

- Rsync
- FTP
- FTSP
- SFTP
- Rsync + SSH

LooksGood

- Built-in three main video library categories (Movies, TV Shows, Home Movies) and smart video sorting management
- Efficient Global Search function allows for searches by keywords followed by the execution of more detailed searches according to the Movies, TV Shows, Home Movies categories and parameters such as actors, director, year, genre, writer, and title
- Attractive poster wall and thumbnail display
- Automatic production of video poster thumbnails
- Centralized management and ability to configure order of favorites and playlist history
- System administrator can configure video library and editing permissions according to user
- Can configure access permissions to share with friends and family
- Multimedia conversion function
- Self-defined smart folder for video conversions
- Supports digital TV recordings via digital TV dongles
- Easy streaming with Chromecast and DLNA
- Support to watch videos in Apple TV via AiVideos tvOS version
- Background conversions (mp4)

- Up to 4 channels of synchronous and non-synchronous playback with audio
- Intelligent video analytics including motion detection and foreign object detection
- Supported Browsers: Windows Internet Explorer, Microsoft Edge, Firefox, Mac Safari, Mac Firefox ESR
- Event notification supports SMS, E-mail, and mobile push notification
- Automated event action rules
- Role-based access control
- RTSP streaming server (video and audio)
- AiSecure mobile app for iOS and Android with Push notification
- ONVIF™ 2.4, Profile S certified
- CMS Lite supports connect up to 128 IP Cameras from 32 NAS
- Two different camera license packages are offered: single channel and 4 channels.
- Maximum IP Cam (4 Free Licenses; Additional Licenses to be Purchased)

Series	Maximum IP cam	Local display
AS7	64	Yes
AS63/64	36	Yes
AS61/62	36	Yes
AS50/51	30	Yes
AS31/32	25	Yes
AS40	16	N/A
AS-6	16	Yes
AS-2TE/AS-3	8	Yes
AS-2T	8	N/A
AS10	8	N/A

- & Mac
- AiDownload for Android with Push Notification
- Smart Download Function

DataSync for Microsoft OneDrive

- Each ADM account is able to individually log into a OneDrive account
- Supports file filter and bandwidth limitation
- Supported backup methods:
 - Sync
 - Directly upload files to OneDrive from NAS
 - Directly download files from OneDrive to NAS

DropBox

- Each ADM Account is Able to Individually Log in to One Dropbox Account
- Supported Backup Methods:
 - Sync
 - Dropbox to NAS
 - NAS to Dropbox

File Explorer

- Web-based File Management
- ISO File Mounting
- Share Links
- Task Monitor
- Browse Files on Local PC
- Thumbnail Previews
- Data Access via External Optical Drive
- Supports video playback¹⁰

FTP Explorer

- Directory Structure View with Drag & Drop

- A variety of conversion resolution options: 240p, 360p, 480p, 720p, 1080p⁹
- Smart Folder automatically adds conversion tasks
- Supports smart converting
- Supports scheduled conversion tasks

iTunes Server

- For iTunes on Mac & Windows
- Supports AirPlay
- Supports iOS Remote Pairing
- Supported Audio Formats: AIF⁵, M4A (AAC & Apple Loseless), M4P, M4R, MP3, WAV⁵
- Supported Video Formats: M4V, MOV, MP4
- Supported Playlist Formats: M3U, WPL

Mail Server

- Each ADM Account can Become an Independent Email Account
- Email Activity Monitor (Over 1 Week, 1/3/6 Months)
- Provides SMTP, IMAP and POP3 Mail Protocols
- Supports SMTP Relay and Verification
- SMTP-SSL Secure Connections
- Spam Filter and Black List Settings
- Antivirus Scanning for Emails
- Email Alias Creation and Mapping
- Monitoring of Mail Queue
- Mail Service Activity Log
- Exclusive Email Backup Mechanism
- Auto-Forwarding and Auto-Response Protocols

Photo Gallery

- “Album” and “Browse” Viewing Modes
- Manage Photo Album Access Rights: Public

- Minimum PC Client Requirements
 - CPU: i5/i7 or above
 - RAM: DDR3 4G or above
 - Operating system Windows 7 and onward, Mac OS X
 - Windows browsers: Firefox 32-bit, IE11 32-bit onwards (excluding Microsoft Edge)
 - Mac browsers: Safari 7.0, Firefox
 - Display resolution: 1280x800 pixels or higher for best user experience
 - Network interface: Gigabit x1
 - Independent graphics card is highly recommend

SoundsGood

- Import Personal/Public Music Collection
- Personal/Public Music Collection Permission Control
- Playlist Editor
- ID3 Tag Editor
- Local Speaker Support: HDMI, USB, Audio Jack
- Supported Audio Formats for Browser: MP3, WAV, Ogg
- Supported Audio Formats for Transcoding Through Browser: AIFF, Flac
- Supported Audio Formats for Local Speaker: MP3, WAV, Ogg, AIFF, Flac
- ASUS DAC Support

Takeasy

- Download from YouTube, Vimeo, Twitch and More
- Selectable Video Type and Quality
- Automatic Downloads with YouTube or Twitch Subscriptions
- Preview Downloads in Progress
- Online Playback

Transfers

- Task Monitor
- Stopping of Transmission Task & Resumption of Connection
- Encrypted Connections: Explicit over TLS, Implicit over TLS
- FTP Site Manager
- Bandwidth Control
- Maximum Simultaneous Transfer Control

Access, Restricted to Certain Accounts, Album Password

- Multi-level Folder Structure Support
- Supports Tagging of Photos
- Intuitive Sorting and Comprehensive Search Function
- Adjustable Photo Wall Browsing Scales
- Automatic Image Rotation
- One-click Sharing to Social Media (Facebook, Google+, Twitter, Plurk, email)
- Intuitive Drag and Drop Management
- Slideshow Viewing Mode
- Provides Comment Function for Users to Interact with Each Other.
- Supports a Wide Range of Image Formats: JPG/JPEG, GIF, PNG, BMP, TIFF, RAW
- Supports Video Playback

VPN Server

- Supported VPN Protocols: PPTP, OpenVPN, and L2TP/IPsec
- View Current Connections & Ability to Disconnect Suspicious Connections
- Comprehensive Connection Log

UPnP Media Server

- Supports PS3 and other Digital Media Player Capable Devices
- Supports On-The-Fly Transcoding for Most RAW Images and Audio(OGG, FLAC)
- Supported Image Formats: BMP, GIF, ICO, JPG, PNG, PSD, TIF, RAW Image⁴ (3FR, ARW, CR2, CRW, DCR, DNG, ERF, KDC, MEF, MOS, MRW, NEF, NRW, ORF, PEF, RAF, RAW, RW2, SR2, X3F)

VPN Client

- Supported VPN Protocols: PPTP, OpenVPN, L2TP/IPsec
- Transmission Package Monitor
- PPTP Authentication: PAP, CHAP, MS CHAP, MS CHAP2
- PPTP Encryption: No MPPE, MPPE (40, 128 bit), Maximum MPPE (128 bit)
- OpenVPN Port Control
- OpenVPN Link Compression

Note:

1. Metadata (e.g. title) may not be able to displayed in iTunes.
2. You must first enable real time transcoding for these files in order to play them.



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Dealer
Seal

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