

**asustor**

## Designed for your growing business

The AS5108T comes equipped with 4 high speed Ethernet ports, integrated hardware and software expandability, optimized system management, data encryption protection and centralized file serving making it the optimal storage server for growing businesses.



**AS5108T**

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# ASUSTOR AS5108T

## ● Seamless Cross-Platform File Sharing

ASUSTOR NAS devices provide seamless cross-platform file sharing, allowing you to easily connect to your NAS device no matter if you are using Windows, Mac OS, or Unix-like operating systems. The transfer protocols that you may use to connect to an ASUSTOR NAS device are as follows:

Windows: CIFS/SMB, FTP and WebDAV

Mac OS X: AFP, SMB, NFS, FTP and WebDAV

Linux: NFS, SMB, FTP and WebDAV

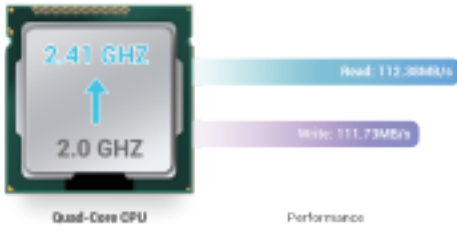
Additionally, ASUSTOR NAS devices feature our Network Recycle Bin. Any files you delete will be moved to the Recycle Bin, allowing you to restore any accidentally deleted files. Transfer protocols supported by the Recycle Bin include: CIFS/SMB, AFP, FTP and File Explorer.



## ● 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:

	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	2
Increased System performance	X	X	V	X	V	V	V
Maximum use of Storage space	V	V	V	X	X	X	X



## ● High Performance Technology

An Intel Celeron 2.0GHz quad-core processor and 2GB DDR3L memory, provide premium, energy efficient processing power. With read/write speeds of up to 112 MB/s, the AS51 series' excellent performance is sure to satisfy your storage application needs. Furthermore, when AS51 series devices need more computing power, they can increase the CPU computing power from the original 2.0 GHz to 2.41 GHz, providing a smooth and seamless experience.

\*Performance results may differ depending on the testing environment.

## ● Connect with a new generation of I/O technology for limitless possibilities

A professional grade NAS needs to be equipped with a diverse array of expansion functionality. ASUSTOR has built in USB 3.0, USB 2.0, eSATA, gigabit Ethernet and HDMI 1.4a ports along with a high fidelity audio S/PDIF port, allowing the NAS to connect to different types of external devices and not be limited to its internal capacity. ASUSTOR NAS redefines the meaning of flexibility and expandability in network storage.

## ● Effortlessly Upgrade Memory

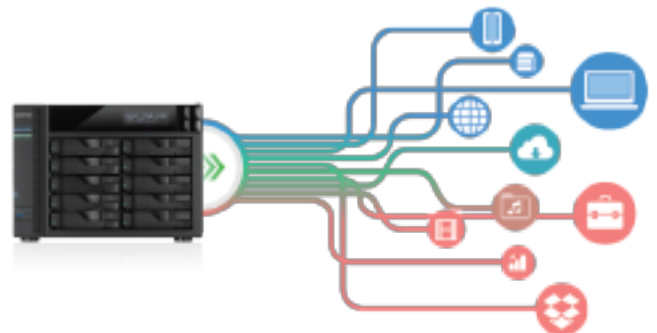


Depending on your usage preferences, you can decide whether or not you want to upgrade memory. AS50/51 devices provide users with the ability to flexibly upgrade memory so there is no need to worry about the memory before you purchasing the device.

When upgrading memory, you simply need to remove the cover of the NAS to do it (There are 2 expansion memory slots in total. Memory can be expanded up to a maximum of 8GB.), letting you easily improve system performance and allowing your NAS to simultaneously run more Apps.

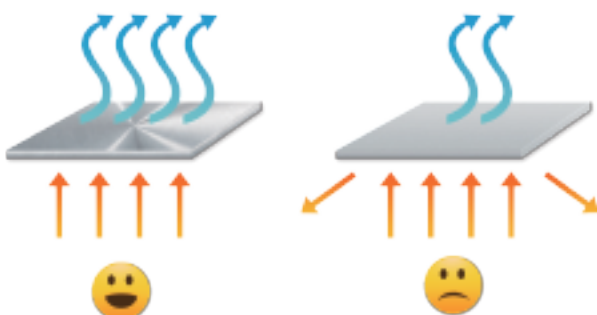
## ● 4 times the network speed and increased reliability

The built-in quad Ethernet ports combined with the link aggregation function, allows your NAS to maintain its connection even if one of your Ethernet connections fail, significantly decreasing the likelihood of unexpected disconnections. Additionally, link aggregation provides faster transfer speeds than a single connection could, along with load balancing which automatically balances network traffic load across the two connections, making it the optimal choice for users who require high speed reliability.



## ● Metallic Design

Different from other NAS devices on the market which feature plastic cases and suboptimal cooling, the AS50/51 devices feature aluminum casing along with a rust and corrosion resistant coating which combines with the metallic hard disk trays to fully make use of the natural cooling properties of metal. This significantly enhances the entire cooling ability of the system.



## ● Secure Disk Tray Lock Design

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In order to help users avoid accidentally pushing disk tray buttons and releasing hard disks during operation, ASUSTOR has added a new lock mechanism to its hard disk trays. The lock's flat-head design ensures that users will not need any special keys or tools to unlock it, only a simple flat-head screw driver. The new disks trays can be used with all ASUSTOR NAS devices, providing an additional layer of security for applications requiring the frequent swapping of hard disks (e.g., MyArchive).



## ● Create a Stable, Reliable and High Quality Surveillance System

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The powerful 51 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 51 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 51 Series devices can be expanded up to a maximum of 12 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.

\*In order to provide stable surveillance system resources, the local display function will be shut off after the NAS has enabled add-on licenses.

## ● A Surge in Data Transfer Performance

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ADM 2.3 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 2.3 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.

## ● Quick and Easy File Access

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The built-in File Explorer App allows you to access the files on your NAS through a Web browser. Enjoy drag and drop file transfers along with a directory structure view that lets you easily organize your data. Accessing files on your NAS never been easier.





	XBMCC Version	Max. Resolution	5.1 / 7.1 Multi-Channel Audio	5.1 / 7.1 Multi-Channel Audio (HDMI)
AS2 / 3 / 6 Series	12.3	1080p HD	✓	✗
AS 90 / 51 Series	13.1	1080p HD	✓	✓
AS70 Series	13.2	2160p 4K	✓	✓

## ● Create the Ultimate Home Multimedia Center

Enjoy electrifying digital entertainment on demand with ASUSTOR NAS. The built-in HDMI interface and variety of multimedia Apps let you to enjoy all of your favorite multimedia from your NAS by directly connecting it to an LCD/LED TV or amplifier.

AS5104T supports Full HD (1080p) output, allowing you to savor your movies, TV shows, music and photos in high definition. What's more, through ASUSTOR's App Central, you can install additional multimedia server Apps such as UPnP Media Server and iTunes Server giving your NAS the ability to stream multimedia content to your computers, TVs and mobile devices.

Additionally, you can also further add a surround sound amplifier to create an unprecedented high definition multi-channel listening experience. Imagine watching your favorite racing movie and being immersed in the roar of the engines. Feel the thrill and the sense of speed as you listen to the sounds of cars whizzing by. Prepare for an unparalleled entertainment experience that will have you on the edge of your seat.

## ● Online Capacity Expansion

Insufficient storage space forcing you to consider upgrading your NAS to one with more disk bays? ASUSTOR NAS supports online capacity expansion<sup>1</sup> which means that you can easily swap out all your old disks for higher capacity ones without turning off your NAS. Now you can increase the storage capacity of your NAS without worrying about getting an entire new system.

During the capacity expansion process, while your data is being transferred over to the new disks, you will still be able to access everything on the NAS. Online capacity expansion does not require any advanced IT skills to execute and helps you to eliminate cumbersome backup and migration procedures. When it's time to upgrade your NAS's capacity, ASUSTOR simply gets the job done for you without missing a beat.

<sup>1</sup>You must use RAID 1, 5, 6, or 10



## ● 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

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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

## ● Windows Backup

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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.

Any data that is lost between scheduled backups is unprotected. Backup Plan lets you configure real time file synchronization for those important and ever-changing file folders. Any changes that you make to your protected files and folder will be updated in real time. Now you can rest assured knowing that your critical files are always protected and up to date.

## ● Time Machine Backup

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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.

Different Mac users can now safely backup their computers to the same NAS device. Unlike other NAS devices, ASUSTOR NAS does not just use one group account to carry out backup jobs for all Mac users, storing all their jobs under the same directory. With ASUSTOR NAS each Mac user is able to use an independent account and backup location thereby guaranteeing privacy for all.



## ● Create a Hybrid Cloud, Protect and Secure Your Data

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Now home and business users alike can back up the data from their ASUSTOR NAS to popular cloud storage services, including Amazon S3, Google Drive, HiDrive, Dropbox, further ensuring the protection of their data. This means that in the event that the data on your NAS is damaged you will be able to immediately restore it from cloud storages.



## ● Mission Mode

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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.

## ● NAS Hard Disks on the Go

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The MyArchive function allows you to use hard disks as removable storage archives. Plug in an archive when you need it and swap it out for a different archive when you don't. Enjoy "plug and play" convenience as you swap between different data collections. Furthermore, the MyArchive function helps you to save power as the archives you are not using can be taken out for storage and do not always have to be powered on.

## ● A Cost-Effective and Efficient Mail Service Solution

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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.

## ● Even More Reliable After-Sales Service

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ASUSTOR has extended the warranty period on all of its products to three years, continuing to make customer service a huge priority. It is ASUSTOR's mission to continue to provide its customers with products of the highest quality along with only the most reliable and attentive after-sales service and technical support.

## ● Your own FTP server

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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.

With FTP server, you will be able to access your NAS via FTP from almost anywhere in the world. No matter if you are on a business trip or vacation, or wish to share files with family and friends, all that's needed is a device with internet access and the data on your NAS can be accessed in no time.



## ● System Notifications

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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.

## ● Firewall

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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.

## ● Network Defender

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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.

## ● Secure Connections – VPN

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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.



## ● Folder-based AES 256-bit Encryption

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Your most important data deserves the best security. ASUSTOR NAS offers folder based military grade AES 256-bit 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.

Unlike other NAS devices, ASUSTOR NAS gives you the flexibility to select the individual folders that you want to encrypt. Other NAS devices encrypt entire storage volumes which significantly slows down the system. Any encrypted portions of storage volumes will be subject to a decrease in performance. However, with ASUSTOR NAS you are free to encrypt only your most confidential data while leaving other data unencrypted, creating a perfect balance between performance and security.

## ● Virtualization

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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.

ASUSTOR understand that stable and high performing shared storage is a must for virtual environments. iSCSI and NFS support on the ASUSTOR NAS allows you to seamlessly integrate with any existing IT environments. All ASUSTOR NAS devices are verified as VMware, Citrix and Hyper-V ready, providing you with a flexible and cost-efficient virtual storage solution.

## ● Virtual Drive

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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

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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:

This function only provides data access and does not support the audio and video playback of optical media.

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.



## ● App Central

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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 peak 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.







AiData



AiRemote



AiMusic



AiMaster



AiFoto



AiVideos



AiSecure



AiDownload

## ● The NAS That's Always With You

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ASUSTOR offers multiple mobile apps that give you convenient access to your NAS while on the go.

## ● Bring You the Smoothest Mobile Video Viewing Experience Around: AiVideos

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The AiVideos allows you to browse through the video collection on 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.

The concise and refined interface guides you with two major functions. Media Explorer allows you to browse through and search for multimedia files on your NAS using a familiar directory structure, making everything intuitive and easy. TV Recordings allow you to view files that appear as thumbnails with file names, allowing you to easily find the programs that you want to view with just one glance. Clicking on programs will allow you to instantly play high definition programs via your Web browser! You can also use the Favorites, Recently Watched and Recently Added options to help you search for programs.

## ● Cloud Data Access from Anywhere: AiData

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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.

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.

You can download data from your NAS to any folder on your Android device or upload files from folders on your Android 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.

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.

## ● Stay Connected to Everything You Care About: AiSecure

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The AiSecure dedicated mobile app allows you to easily keep an eye on everything that is happening at . 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.

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.

## ● The most intuitive way to browse through your photos: AiFoto

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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.

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.

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

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

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.

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.

## ● One stop searching and downloading: AiDownload

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Imagine the convenience of searching and downloading while on the go and then having your downloads ready on your NAS as soon as you get home. With ASUSTOR's AiDownload app, all this is possible and more. AiDownload is a mobile app that interfaces with ASUSTOR's Download Center to provide you with mobile download management. No matter if it's searching, downloading, configuring settings or monitoring, you can do it all with AiDownload.

AiDownload includes a push notification feature that alerts you when downloads have been completed. Now you are free to concentrate on your more important tasks knowing that you will be notified as soon as your downloads are finished.

## ● Stay up to date with your NAS: AiMaster

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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.

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.

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 NAS multimedia player remote: AiRemote

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What would a home entertainment center be without a remote control?

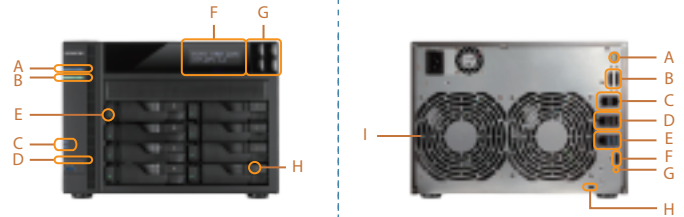
AiRemote is a mobile app that turns your mobile device into a remote control for Boxee on ASUSTOR NAS. Now you can operate Boxee wirelessly and access all the media content on your NAS from the comfort of your couch. All that's left to do is to sit back, relax and enjoy the show.

## ● Hardware Specification

### AS5108T

Processor	Intel® Celeron 2.0GHz Quad-Core (burst to 2.41GHz)
Memory	2GB SO-DIMM DDR3L (Expandable. Max 8GB)
Internal Disk	8 x (25"/35" SATA or SSD)
External Device Interface	3 x USB 3.0, 2 x USB 2.0, 2 x eSATA
Network Gigabit Ethernet	4
Dimensions (HxWxD)	215.5(H) x 293(W) x 230(D) mm
Weight	6.2 (kg) / 13.67 (lb)
Power	Internal Power Supply: 100-240V AC
Operation*	31.5W
Disk Hibernation*	12.3W
Sleep Mode (S3)*	59.1W (Operation)
	32.1W (Disk Hibernation)
	3.2W (Sleep Mode)3
HD Display	1 x HDMI 1.4a
Audio Output	1 x S/PDIF

\* Test HDD: WD Red 3 TB HDD



- A. Power LED Indicator
- B. System Status LED Indicator
- C. Network LED Indicator
- D. USB LED Indicator
- E. Hard Disk LED Indicator
- F. LCD panel
- G. Control buttons
- H. Tray lock

- A. S/PDIF Port
- B. eSATA Port
- C. RJ45
- D. RJ45 & USB 2.0 Port
- E. RJ45 & USB 3.0 Port
- F. HDMI Port
- G. Reset Button
- H. K-Lock
- I. System Fan

## ● Software & Features

### Access Control

- Maximum Number of Users: 4096
- Maximum Number of Groups: 512
- Maximum Number of Shared Folders: 512
- Maximum Number of Concurrent Connections: 512
- Supports Windows Active Directory

### Backup Solutions

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

### Disk Management

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

### 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

### File System

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

### iSCSI

- Maximum Targets: 256
- Maximum LUNs: 256
- Target Masking
- LUN Mapping
- ISO File Mounting
- Supports MCS
- Persistent (SCSI-3) Reservations

### MyArchive

- Insert Hard Disk & Immediately Access Files
- Transfer or Exchange Terabytes of Data via the Internal Hot-Swap SATA Interface
- Up to 2 Bays Reserved for MyArchive Docking Purposes

### Network Protocols

- CIFS/SMB, AFP, NFS, FTP, WebDAV, Rsync, SSH, SFTP, iSCSI, HTTP, HTTPS, SMB 2.0\*, TFTP\*, Proxy\*

\*ADM 2.3 Onwards

### Network

- TCP/IP (IPv4 & IPv6)
- Link Aggregation
- Jumbo Frame (MTU)
- VLAN
- Cloud Connect
- Wireless Network
- DDNS and EZ-Router
- Supports Wake-on-LAN (WOL)

### Operating System

- ADM 2.0 Onwards
- Built-in App Central for Various Apps

### Security

- AES 256-Bit Folder Encryption
- Firewall: Prevent Unauthorized Access
- Network Defender: Prevent Network Attacks
- Alert Notifications: E-mail, SMS
- Encrypted Connections: HTTPS, FTP over SSL/TLS, SSH, SFTP, Rsync over SSH

### Supported OS

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

### 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, Español

### Supported Browsers

- Internet Explorer 9 Onwards
- FireFox
- Chrome
- Safari

### Storage Management

- Support Multiple Volumes with Spare Disks
- Volume Type: Single disk, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, RAID 10
- Support for Online RAID Level Migration
- Support for Online RAID Capacity Expansion

### System Administration

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

## ● Featured Apps

### 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

### Antivirus

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

### ASUSTOR Portal

- Supports 2 Different Multimedia Players: XBMC
- Supports Output for 4 Channels of Megapixel IP Camera Video Feeds
- Chrome Web Browser and YouTube Integration
- Downloads from Chrome 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
- Increased TV Compatibility via Overscan and Resolution Settings

### XBMC

- XBMC 13
- Play All Media Content Stored on NAS
- Video Output via HDMI
- TV Shows, Movies, Apps and More
- ASUSTOR Customized Features
- AiRemote Mobile App
- Supports SBS 3D Playback (Side By Side)

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

### Dropbox

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

### File Explorer

- Web-based File Management
- ISO File Mounting
- Share Links
- Task Monitor
- Browse Files on Local PC
- Thumbnail Previews

### FTP Explorer

- Directory Structure View with Drag & Drop 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

### 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

- 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
- Supported Protocols:
  - Rsync
  - FTP
  - FTPS
  - SFTP
  - Rsync + SSH

### iTunes Server

- For iTunes on Mac & Windows
- Supports AirPlay

- Supports iOS Remote Pairing
- Supported Audio Formats: AIF, M4A (AAC & Apple Loseless), M4P, M4R, MP3, WAV
- 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
- Antivirus Scanning for Emails

### Photo Gallery

- Social Media Support: Facebook, Google+, Twitter, Plurk
- Manage Photo Album Access Rights: Public Access, Restricted to Certain Accounts, Album Password
- Customizable Photo Album Cover
- Supports Display of Image EXIF Values, Editable Description, Image Rotation
- Supports Playing Images via Slideshow
- Supports Downloading of Image Source Files
- Supports User Comments
- Supports Tagging of Photos
- Search for Photos via Keyword or Tag
- Supported Image Format: JPG, PNG, GIF

### Surveillance Center

- Live Monitoring (4 Free Channels)
- Multiple Channel Playback with Audio
- Supported Browsers: Internet Explorer, Chrome, FireFox (Windows only)
- Event Notification
- Supports Local Output of 4 Video Feed Channels
- Recording via Schedule and Event Detection
- Add Additional IP Camera Channels via Purchasable Licenses
- Max. Number of IP Cameras (Including 4 Free Channels): 12

### SoundsGood

- Import Personal/Public Music Collection
- Personal/Public Music Collection Permission Control
- Playlist Editor
- ID3 Tag Editor
- Local Speaker Support: HDMI, USB
- 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 Vimeo, YouKu, Tudou and More
- Selectable the Video Type and Quality
- Automatic Downloads with Subscriptions
- Preview Downloads in Progress
- Online Playback

### 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 Image (3FR, ARW, CR2, CRW, DCR, DNG, ERF, KDC, MEF, MOS, MRW, NEF, NRW, ORF, PEF, RAF, RAW, RW2, SR2, X3F)
- Supported Audio Formats: 3GP, AAC, AC3, AIFC, AIFF, AMR, APE, AU, AWB, FLAC1, M4A, M4R, MP2, MP3, OGG Vorbis1, PCM, WAV, WMA
- Supported Video Formats: 3GP, 3G2, ASF, AVI, DAT, FLV, ISO, M2T, M2V, M2TS, M4V, MKV, MP4, MPEG1, MPEG2, MPEG4, MTS, MOV, QT, SWF, TP, TRP, TS, VOB, WMV, RMVB, VDR, MPE

### VPN Client

- Supported VPN Protocols: PPTP, OpenVPN
- 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

### VPN Server

- Supports PPTP and OpenVPN Protocols
- View Current Connections & Ability to Disconnect Suspicious Connections
- Comprehensive Connection Log

### More...

For information on additional Apps, please visit: <http://www.asustor.com/apps>

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