

# asustor

A high capacity home multimedia hub  
Add a touch of modern style and flair to any space



## AS1004T v2

- Exceptional transfer performance
- Ultra-quiet operation
- Energy efficient low power consumption
- Hand screw design for toolless installation
- Stylish diamond-plate finished cover design



## ● CPU upgrade to improve product performance

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The AS10 v2 series has been upgraded with a new dual-core 1.6 GHz CPU, which is even better than ever! Through hardware and software optimization, the new AS10 V2 can provide over 110 MB/s of read performance and write speeds of over 98 MB/s, which is 20% faster than the previous generation. At the same time, overall system performance, ADM OS, app installation and execution, photo album browsing, file uploading and downloading have also been improved, making work faster and more efficient.



## ● Add modern flair to your favorite space

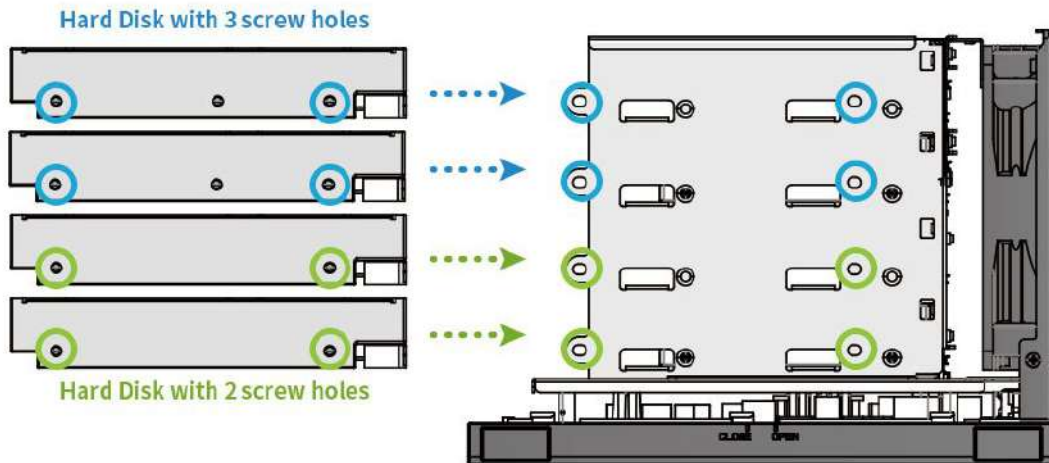
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The AS10 series devices redefine the aesthetics of a NAS. The stylish diamond-plate finished cover makes it an elegant addition to any space, no matter if it is a family room, living room or office.



## ● Flexible configuration capacity

The AS10 v2 series features an updated internal hard drive slot design that is fully compatible with 3½" hard drives. It also supports hard drives with a large capacity and improves the flexibility for those who wish to build private clouds.



## ● Ultra-quiet operation

The AS10 series devices produce only 19 decibels of noise during system standby, equivalent to the almost inaudible sound of a pin drop. During system operation, only 32 decibels of noise is produced, equivalent to the hushed tones of a quiet library, allowing the AS10 series devices to seamlessly and comfortably integrate into any living environment.

Standby

**19** Decibel

Operation

**32** Decibel

Library

**32** Decibel



## ● Save power to save money

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ASUSTOR NAS products are designed and developed around ecologically friendly concepts. When in use, our devices consume far less power than the average computer or server. Furthermore, our advanced power control features allow you to more efficiently manage your NAS device and hard drives. This lowers your electric bill and prolongs the lifespan of your hard drives all at the same time. While in disk hibernation, the AS1004T v2 consumes only 6.9 W of power. Under normal operating conditions it still only consumes 14.1 W of power.



## ● Toolless installation

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The AS10 series' sliding outer cover design allows it to be conveniently removed when needed. The inner hard disk rails and outer cover all use hand screws allowing for the simple installation of hard disks without any extra tools.



## ● PC-less Software Installation

Mobile installation with AiMaster takes only 3 steps! Finding your NAS, system initialization and installation, power management, ADM firmware updates, system information and more are all available from the convenience of your mobile device at any time.



## ● Pure Protection for All Your Data

The AS1004T v2 allows you to install up to 2 hard disks, providing RAID 1 data protection which allows you to simultaneously store and backup your data. Furthermore, ADM security configurations provide even more advanced protection for your data while secure network connections give you stress-free access.



- Firewall
- AES 256-Bit Encryption
- Trusted IP List, Black List, GEO IP
- VPN Connections (PPTP, OpenVPN)
- HTTPS Connections (Web Interface, Mobile Devices)
- Encrypted Connections (FTP SSL/TLS, SSH, SFTP, Rsync and SSH)
- System Notifications (Email, SMS)



## ● Cross-Platform Multi-User Access

The ASUSTOR NAS provides seamless cross-platform and multi-user access, allowing you to easily connect to your NAS from Windows, Mac OS X or Unix-like operating systems no matter if you are using a PC, notebook, tablet or smartphone.



1024

Accounts

256

Groups

256

Shared Folders

128

Concurrent Connections

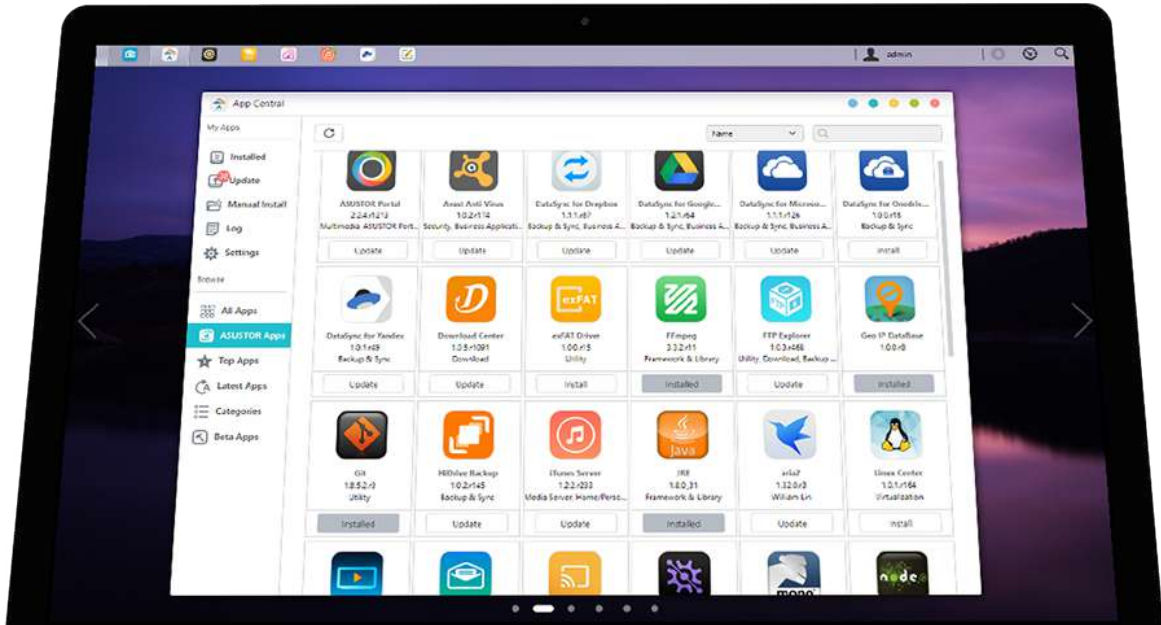
## ● Comprehensive Backup Solutions

AS10 series devices provide a variety of backup options and are connected to a variety of public cloud storage services including Amazon S3, Dropbox, Google Drive, OneDrive, Box.net, HiDrive, Ralus, WonderBox, xCloud and CrashPlan. You can also use FTP Explorer, USB external hard drive enclosures, external hard drives and local backup to ensure proper backup for your data. No matter if you are using Windows, Mac or Linux, ASUSTOR provides the proper tools for your backup needs



## ● App Central

Unleash the unlimited potential of ASUSTOR NAS. 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. Whether your interests lie in business, website construction or even digital home entertainment, App Central has got you covered. With over 200 unique Apps, App Central provides you with the boundless variety of applications that you require to satisfy your digital lifestyle needs. Explore the unlimited potential of ASUSTOR NAS devices while creating a personalized NAS device for yourself.



## ● Mobile Apps

ASUSTOR's exclusive Cloud Connect technology allows you to connect to your NAS from anywhere with your Mobile device in order to access and share your files. ASUSTOR mobile apps provide pass code lock functions in order to protect your privacy and data. You can also make use of HTTPS connections for even more added security.



AiData



AiRemote



AiMusic



AiMaster



AiFoto



AiVideos



AiSecure



AiDownload

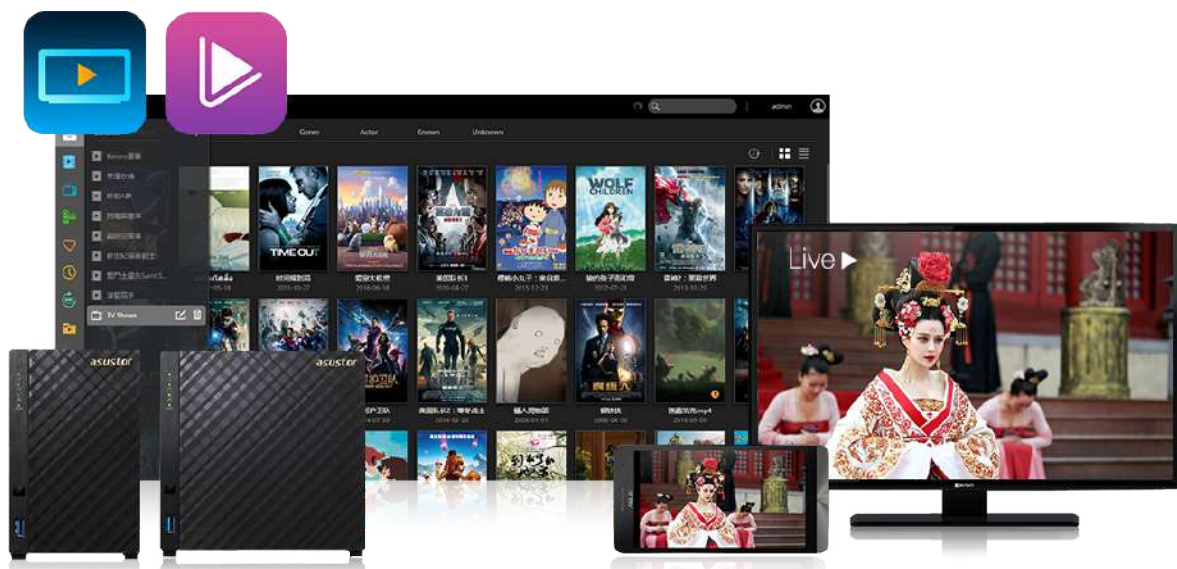
## ● Ideal home multimedia server

The AS10 series' built-in CPU floating-point unit is able to quickly process large amounts of photo thumbnails, allowing you to instantly transfer and browse photos at any time. The rich variety of multimedia server applications are able to smoothly stream high definition multimedia entertainment to devices such as UPnP/DLNA players, Web browsers on computers, tablets and smartphones.



## ● Your Dedicated Cinema: LooksGood

LooksGood allows you to browse through all the multimedia content on ASUSTOR NAS devices, creating a dedicated multimedia database. You can also schedule digital TV recordings, ensuring that you will never miss your favorite shows again. Use Aivideos to browse through the video collection on your NAS. No more waiting for downloads to complete! Simply tap on a video to begin streaming in high definition 1080p to your mobile device!





## ● Comprehensive Surveillance System

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The powerful ASUSTOR NAS provides optimal reliability for home and SMB users looking to set up a surveillance system. 4 free camera channels are offered, making it an extremely cost-effective surveillance solution for users with smaller demands. For users with larger demands, the number of camera channels can be expanded up to 8 via purchasable camera licenses. After installing Surveillance Center and its corresponding mobile app AiSecure, users will also be able to stream live surveillance feeds to their smartphones while on the go, keeping an eye on their most valued assets from anywhere.

### 5 Steps 60 Sec

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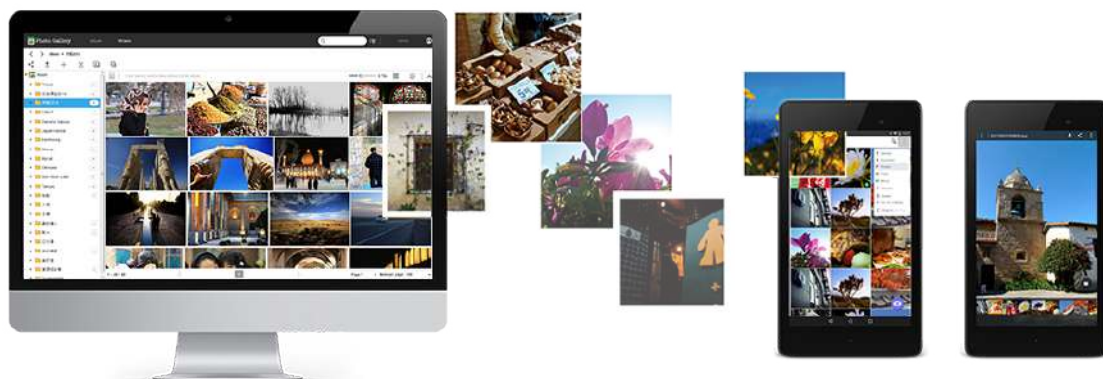
- Start quick installation wizard
- Automatic camera search
- Add cameras with just one click
- Configure video format
- Configure recording schedule



## ● Recapture Your Favorite Memories with Photo Gallery

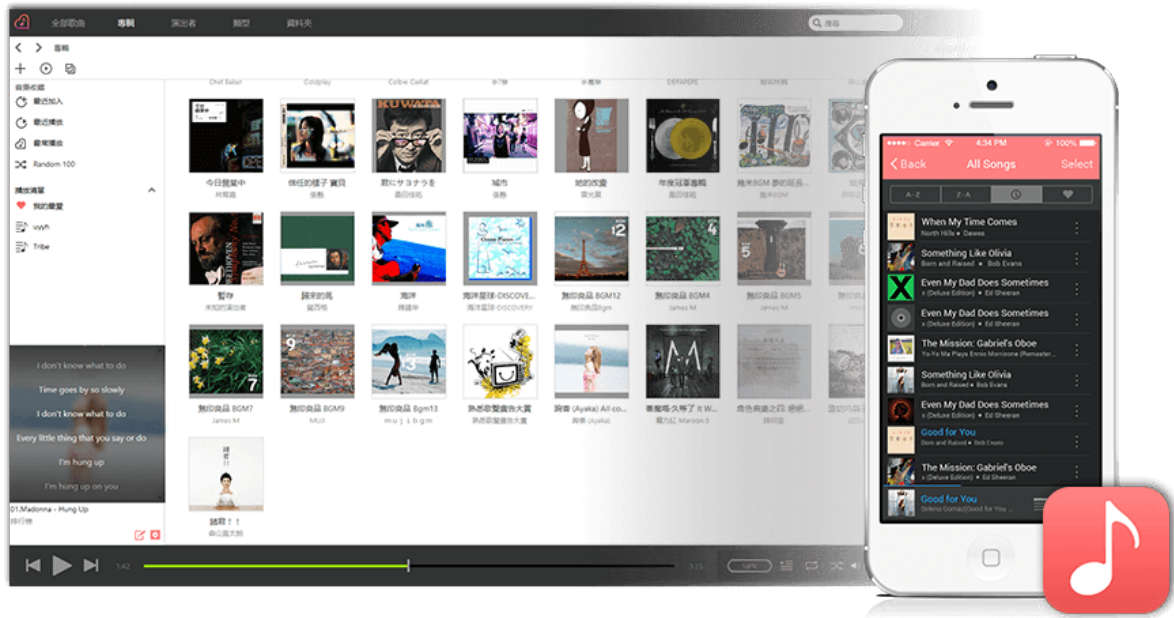
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Unforgettable vacations, reunions, weddings, graduations and more. Photo Gallery helps you organize your photos and videos from all those magical moments in your life. Album covers feature 5 thumbnails, which allow you to view its contents in one quick glance. 1-click sharing to social media allows you to instantly share photos with friends and family, while the free AiFoto mobile app provides instant backup of any photos you take.



## ● Music Box SoundsGood

SoundsGood is a Web music player that can play all the music stored on your NAS over the Internet. Now you can access your music from anywhere and even share your music collection with family and friends. With SoundsGood, each user can have their own personalized music collection and playlists. You can also stream music directly from your NAS to your mobile device after installing the free AiMusic app.



## ● iTunes Server All Your Music. Everywhere.

Still storing your music and movie collections on different computers? Running out of disk space? iTunes Server is what you need. Now you can store all your music and movies on your ASUSTOR NAS and have them streamed to any Mac or Windows computer within the local network. AirPlay, iOS Remote pairing and playlists are also supported.



## ● Hi-Res Player for Your DSD Audio

ASUSTOR continues to lead the industry, and is the only brand in the world to support 11.2 MHz high resolution audio output. The Hi-Res Player App combined with the ASUSTOR NAS™ high performance DSD transcoding provide a breathtaking listening experience that allows you to hear the subtle details and full dynamic range of your favorite music as if you were enjoying a live performance. Hi-Res Player also allows you to create a music sharing folder to share your music collection with family and friends.



## ● First-Class Product Warranty

All ASUSTOR NAS products come with a 3-year warranty. ASUSTOR continues to make customer service a priority in providing the highest standard of after-sales service and technical support.



## ● Hardware Specification

### AS1004T v2

Processor	Marvell ARMADA-385 1.6GHz (Dual-Core) Processor
Memory	512MB DDR3
Internal Disk	4 x SATA3 6Gb/s; 3.5" HDD
Network	Gigabit Ethernet x 1
External Device Interface	USB 3.0 x 2
Dimensions (HxWxD)	165(H) x 164(W) x 218(D) mm
Weight	1.5 kg / 3.31 lbs
Power	External Power Adapter : 90 W
Operation	24.6 W
Disk Hibernation	11.3 W
Sleep Mode (S3)	No Sleep Mode
Volume Type	Single disk, JBOD, RAID 0 / 1 / 5 / 6 / 10



- A. Power LED Indicator
- B. System Status LED Indicator
- C. Network LED Indicator
- D. Hard Disk LED Indicator

- A. Power Button
- B. Reset Button
- C. USB 3.0 Port
- D. Network Port
- E. DC Input
- F. K-Lock
- G. System Fan

## ● Software & Features

### Operating System

- ADM 3.2 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

### 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, uomi, Português, Türkçe, Español, Magyar

### 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

### 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 Wait Time



## Backup Solutions

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

## 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

## Access Control

- Maximum Number of Users: 1024
- Maximum Number of Groups: 256
- Maximum Number of Shared Folders: 256
- Maximum Number of Concurrent Connections: 128
- 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

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

- Maximum Targets: 64
- Maximum LUNs: 64
- Maximum Snapshot Versions of a Single LUN: 256
- Target Masking
- LUN Mapping
- ISO File Mounting
- Supports MPIO
- Persistent (SCSI-3)
- Reservations

## Network Defender

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

## External Devices

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

## Supported Browsers

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

## Network

- TCP/IP (IPv4 & IPv6)
- Link Aggregation: 0
- Jumbo Frame (MTU)
- VLAN
- EZ Connect
- Wireless Network<sup>3</sup>
- DDNS and EZ-Router
- Supports Wake-on-LAN (WOL)

## ● Featured Apps

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### 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 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

### Syslog server

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

### 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 playback<sup>10</sup>

### 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

### SNMP Server

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

### 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
- 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<sup>5</sup>, M4A (AAC & Apple Loseless), M4P, M4R, MP3, WAV<sup>5</sup>
- Supported Video Formats: M4V, MOV, MP4
- Supported Playlist Formats: M3U, WPL

### Takeasy

- Download from Vimeo, YouKu, Youtube and More
- Selectable the Video Type and Quality
- Automatic Downloads with Subscriptions
- Preview Downloads in Progress
- Online Playback

## 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
- Email Alias Creation and Mapping
- Monitoring of Mail Queue
- Mail Service Activity Log
- Exclusive Email Backup Mechanism
- Auto-Forwarding and Auto-Response Protocols

## VPN Server

- Supports PPTP & OpenVPN & IPsec/L2TP settings
- View Current Connections & Ability to Disconnect Suspicious Connections
- Comprehensive Connection Log

## VPN Client

- Supported VPN settings: PPTP, OpenVPN & IPsec/L2TP
- 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

## 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

## Photo Gallery

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

## 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)

## SoundsGood

- Import Personal/Public Music Collection
- Personal/Public Music Collection Permission Control
- Playlist Editor
- ID3 Tag Editor
- Local Speaker Support: HDMI, USB, Audio Jack
- Local Network Audio Output Support: AirPlay Devices
- Supported Audio Formats for Browser: MP3, WAV, OGG, FIAC, AIF, AIFF, AAC, M4A, WMA, APE
- Supported Audio Formats for Transcoding Through Browser: AIF, AIFF, AAC, M4A, WMA, APE, OGG, FLAC
- Supported Audio Formats for Local Speaker: MP3, WAV, OGG, FIAC, AIF, AIFF, AAC, M4A, WMA, APE
- ASUS DAC Support

## 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
- 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, Chrome, 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

## 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 / Chrome
- Mac browsers: Safari 7.0 / Firefox ESR
- Display resolution: 1280x800 pixels or higher for best user experience
- Network interface: Gigabit x1
- Independent graphics card is highly recommend

## EZ Sync Manager

- Automatically synchronizes files between a PC and NAS
- Can restore previous versions of files
- Supports file sharing
- AiData now supports accessing EZ Sync files

### 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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