

asustor

A Powerful and Economical Intel Dual-Core NAS

Low maintenance cloud storage featuring a unique integration of cutting-edge technology and modern design.



AS3102T v2

- Powered by the latest Intel Celeron processors
- Hand screw design for toolless installation
- Stylish diamond-plate finished cover design
- Equipped with hardware transcoding engine
- Now with two Gigabit ports, up to double the speed



- Upgrade to 2 Gigabit network ports, doubling transmission performance

AS3102T v2 is upgraded to be equipped with two Gigabit network ports, allowing to enable network link aggregation mode, and the bandwidth can be combined to maximize the network transmission efficiency and provide up to 2 Gb/s network bandwidth. The doubled network transmission speed in the local network provides photographer and multimedia studios with the need to transfer and back up large-capacity files and multiple processing to construct a faster and more efficient private cloud space.



- Rock Solid Power. Premium Performance

Equipped with Intel Celeron dual-core processors and 2GB of dual-channel memory. Features read/write speeds of over 113 MB/s and 110 MB/s under RAID 1 configurations. Built-in Intel AES-NI hardware encryption engine features read/write speeds of 113 MB/s and 65 MB/s, giving you both performance and security advantages. Your data is completely protected from the moment it is first stored on the NAS.



Regular access (RAID 1)

Access with hardware Encryption enabled (RAID 1)

113 MB/S

Accounts

110 MB/S

Write

113 MB/S

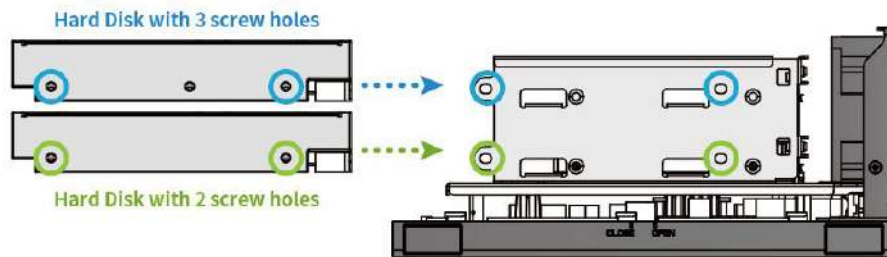
Read

65 MB/S

Write

● Flexible configuration capacity

The AS31 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.



● Toolless installation

The AS31 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.



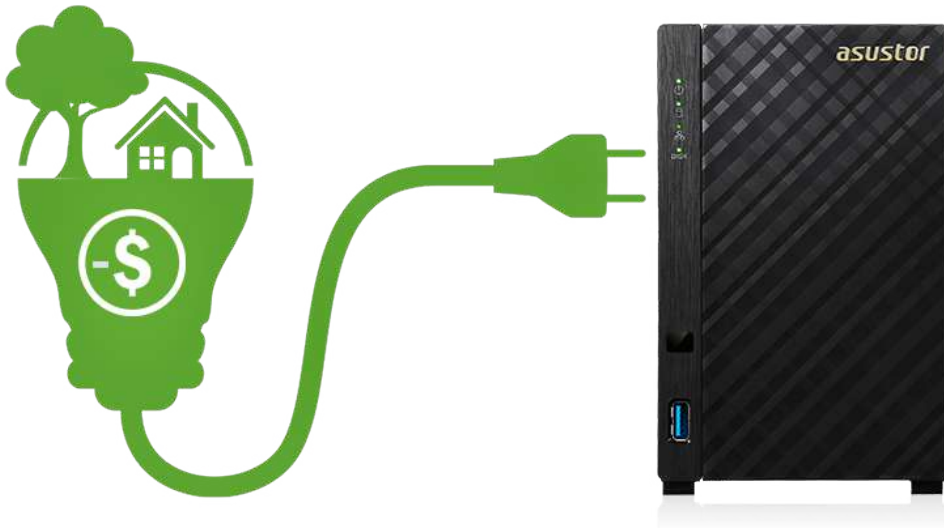
● Add modern flair to your favorite space

The AS31 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.



● Save power to save money

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 AS3102T v2 consumes only 8.1 W of power. Under normal operating conditions it still only consumes 14.6 W of power.



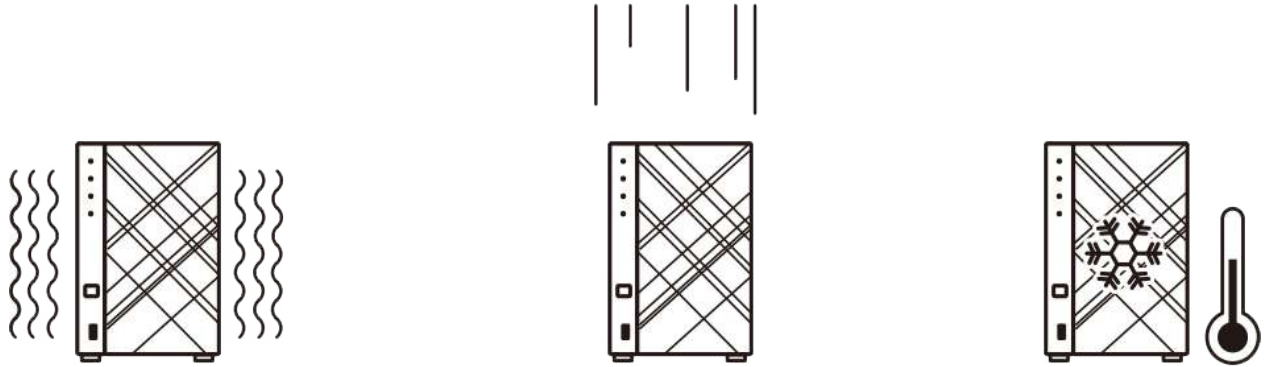
● PC-less Software Installation

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.



● 24/7 reliability and durability

All ASUSTOR NAS are designed for and are suitable for 24/7 use. ASUSTOR NAS devices have also undergone rigorous tests, such as drop tests and burn tests to test durability in extreme conditions. Heatsinks were added to sensitive components to dissipate heat, helping to maintain the longevity of the device.



● 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.



4096

Accounts

512

Groups

512

Shared Folders

512

Concurrent Connections

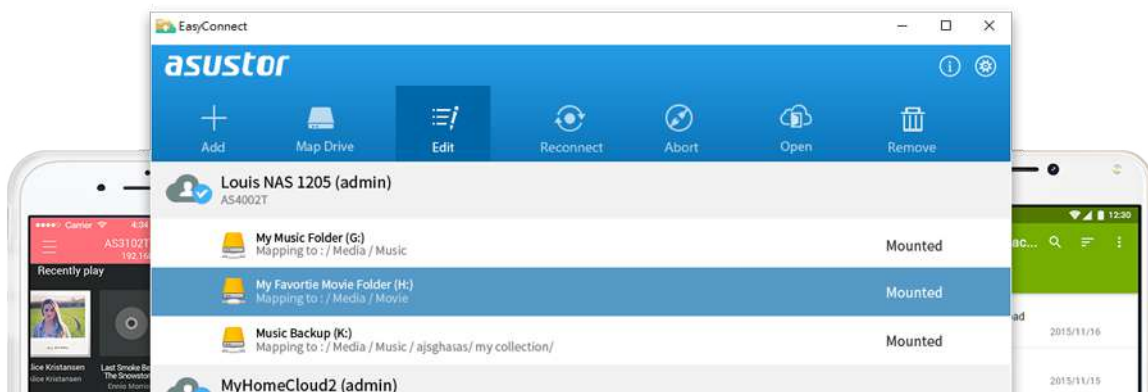
● Comprehensive Backup Solutions

AS31 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



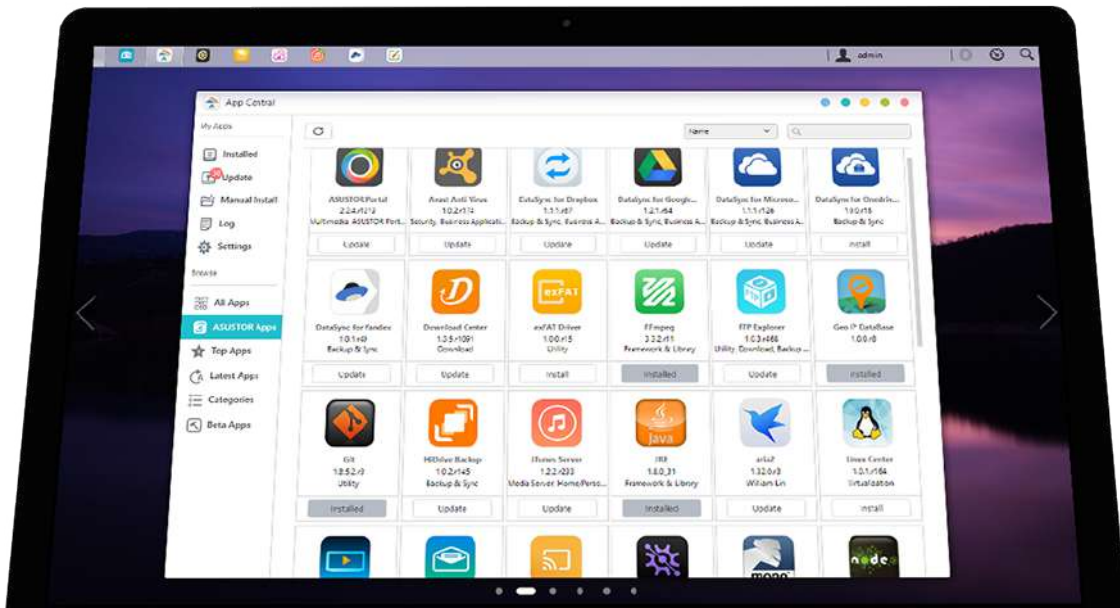
● Effortless Connections to Your NAS

ADM 3.0 provides easy connections by supporting a new Internet Passthrough function that helps users to simplify previously complex router configurations. Even if users with mobile devices are under local network or multi-router environments, all they need to do is upgrade their apps to the latest version supporting ADM 3.0 and they will be able to easily connect to their NAS to access their data from anywhere and at any time. For computer users, they only need to install the new ASUSTOR EZ Connect (AEC) utility to utilize the Internet Passthrough function and conveniently connect to their NAS at home. Furthermore, they will also be use AEC to map their NAS to their computer as a network drive for convenient access.



● 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 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



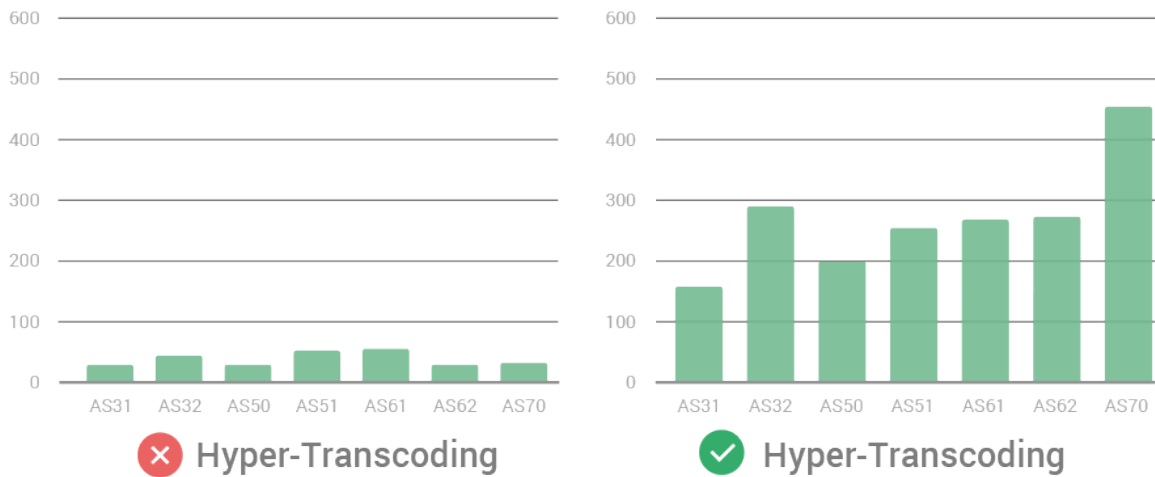
AiDownload

● Supercharge your multimedia experience

You no longer need to worry about running into resolution compatibility issues when playing videos on your phone, tablet or computer.

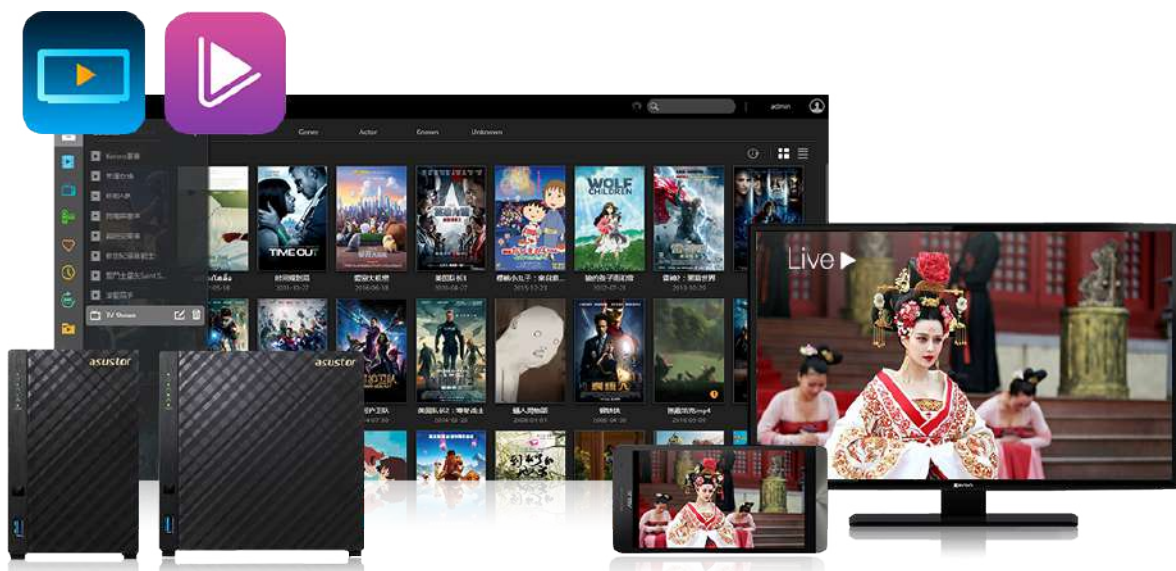
Media Converter utilizes a quick and simple conversion method, allowing you to execute conversion tasks in the background.

The exclusive built-in Hyper-Transcoding technology was expertly crafted by ASUSTOR. This technology utilizes the Intel CPU hardware acceleration function to make video file conversions faster and simpler than ever before. Using Hyper-Transcoding to convert video files can reduce the normal conversion time by at least 10 times.



● 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

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.

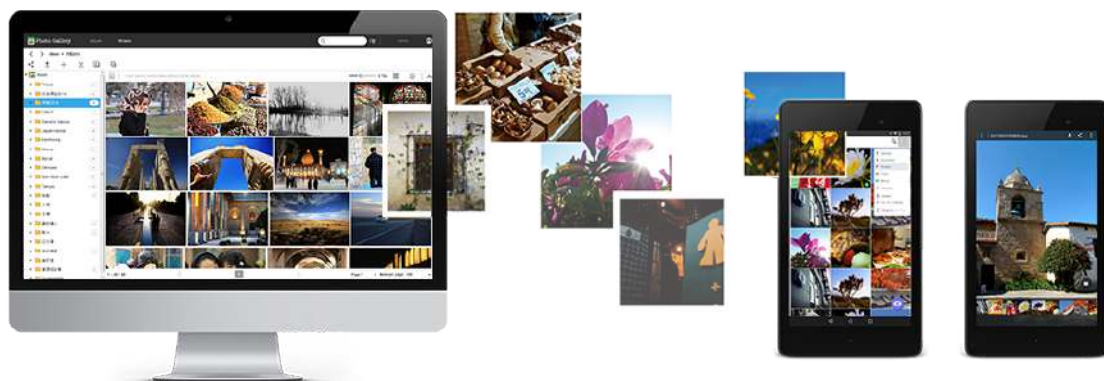
5 Steps 60 Sec

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



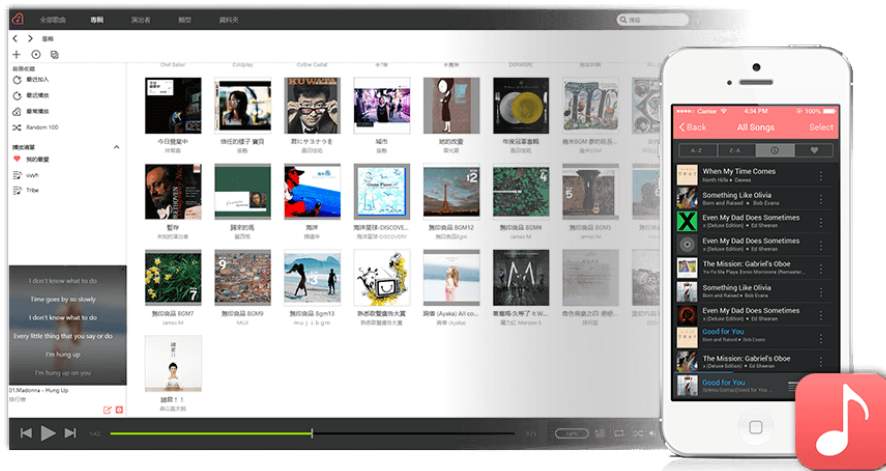
● Recapture Your Favorite Memories with Photo Gallery

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.



● 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.

ASUSTOR NAS 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.



● 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.



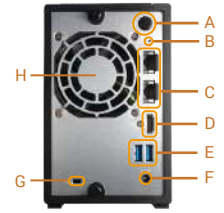
● Hardware Specification

AS3102T v2

| | |
|---------------------------|--|
| Processor | Intel Celeron 1.6GHz Dual-Core (burst up to 2.48GHz) Processor |
| Memory | 2GB DDR3L |
| Internal Disk | 2 x SATA3 6Gb/s; 3.5" HDD |
| Network | Gigabit Ethernet x 2 |
| External Device Interface | USB 3.0 x 3 |
| Dimensions (HxWxD) | 165(H) x 102(W) x 218(D) mm |
| Weight | 1.17 kg / 2.58 lb |
| Power | External Power Adapter : 65 W |
| Operation | 14.6 W |
| Disk Hibernation | 8.1 W |
| Sleep Mode (S3) | 0.89 W |
| Volume Type | Single disk, JBOD, RAID 0 / 1 |



- 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. Network Port
- D. HDMI Port
- E. USB 3.0 Port
- F. DC Input
- G. K-Lock
- H. 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

Network

- TCP/IP (IPv4 & IPv6)
- Link Aggregation: 0
- Jumbo Frame (MTU)
- VLAN
- EZ Connect
- Wireless Network³
- DDNS and EZ-Router
- Supports Wake-on-LAN (WOL)

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: 4096
- Maximum Number of Groups: 512
- Maximum Number of Shared Folders: 512
- Maximum Number of Concurrent Connections: 512
- 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

Supported Browsers

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

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

SSD Cache

- SSD-like performance with traditional hard drives
- supports read-only access and read-write cache mode
- Supported Models: AS31/32/50/51/61/62/63/64/70 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

● Featured Apps

Antivirus

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

ASUSTOR Portal (HDMI Local Output)

- 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
- Increased TV Compatibility via Overscan and Resolution Settings
- Max. Resolution: 1080p(HD)/2160(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 & 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

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 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

- 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

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

iTunes Server

- For iTunes on Mac & Windows
- Supports AirPlay
- Supports iOS Remote Pairing
- Supported Audio Formats: AIF⁵, M4A (AAC & Apple Lossless), 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
- 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

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

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
- 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

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

Takeasy

- Download from YouTube, Vimeo, YouKu, Tudou and More
- Selectable the Video Type and Quality
- Automatic Downloads with YouTube 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 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 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

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.



ASUSTOR Inc.

3F, No.136, Daye Rd., Beitou Dist., Taipei City 112, Taiwan
Tel: +886 2 7737 0888
www.asustor.com

Designs and specifications are subject to change without notice.
© ASUSTOR Inc. ASUSTOR and all other ASUSTOR product names are trademarks or registered trademarks of ASUSTOR Inc. All other product and company names mentioned herein are the trademarks of their respective owners.