

**asustor** an ASUS assoc. co.



# ADM 3.0

Fresh New Look and Intuitive Enhancements

AS6404T

AS6302T

AS6004U



## More Than Just Storage

Discover the Extraordinary with ASUSTOR



Performance King



Boundless Functionality



Intuitive UI



Incredible Value





# ASUSTOR Data Master 3.0



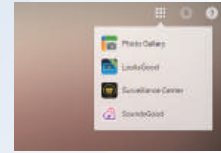
Exclusive

## EZ Connect to Your NAS

Supports Internet Passthrough function: Even under multi-router environments you will be able to easily connect to your NAS from inside or outside your network and can mount NAS folders to Windows Explorer.

## Login Screen provides more information and functions

- Convenient System Announcements
- ADM Online Help Assistant
- App Shortcuts



## Desktop Widgets for Efficient Real-Time Monitoring



System administrators can now self-define desktop widgets in order to monitor the system status in real-time. Widgets include Storage Manager, Activity Monitor, online users and important logs.

## New Desktop Advancements



- Different desktop icon layout configurations: 5x3, 6x3, 7x4
- Grouping for Desktop Icons
- Create File/Folder Desktop Shortcuts



## Preinstalled Apps for Home and Business Use

During the ADM installation process specified Apps can also be installed automatically and be immediately available for use once ADM is ready.



# Business

AD + ACL



ADM features built-in Windows AD support. Once 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. Windows AD support combined with ACL allows IT professionals to use the familiar Windows user experience to quickly configure shared folder access rights for users and groups on an ASUSTOR NAS. Furthermore these settings can be applied to Samba, File Explorer, AFP, NFS, or WebDAV allowing businesses to maintain flexibility and security with regards to data access.

## Batch Creation of ADM Accounts

Via ADM's batch creation function, you can quickly create multiple regular sequential user accounts (e.g., student numbers). With regards to irregular non-sequential account creation, you can enter account data into a text file (\*.txt, \*.csv) and then import it into ADM to create accounts.

## Enhanced Data Security While Maintaining Top-Flight Performance

AS10/31/32/61/62/63/64/70 series devices utilize CPUs with built-in hardware encryption engines. This allows the system to maintain high speed data transfers even after enabling data encryption, while not greatly increasing the load on the CPU. This allows you to employ enterprise-class data encryption while maintaining first-rate system performance.

AS7010T non-encrypted/encrypted data transfer comparison table:

	Single Gigabit LAN		Single 10GbE LAN	
	Read (MB/s)	Write (MB/s)	Read (MB/s)	Write (MB/s)
Non-encrypted	112.86	112.50	514.46	749.31
Encrypted	112.63	112.32	510.54	536.54

## Evolved Network Defender

- Provides Auto Black List to block brute-force attack attempts
- Trusted List can prevent trusted IP addresses from being automatically blocked in the event of too many inadvertent login failures
- Black and White List can be defined by specific IPs, IP ranges, and geolocation

## DHCP Server: Automate the IP Assignments

- Each LAN port can be configured as an independent DHCP server
- Supports multiple IP subnets assignment
- Supports DHCP reservation

## Virtualization Ready

iSCSI and NFS support on ASUSTOR NAS devices allows you to seamlessly integrate with any existing IT environments. VMware ready: AS50/51/6/61/62/63/64/70 series  
Citrix ready: AS50/51/6/61/62/63/64/70 series  
Hyper-V ready: All ASUSTOR NAS series

## iSCSI LUN Snapshots

- Almost instantaneous snapshot creation and restoration
- No extra load on the system
- Saves time and storage capacity
- Each LUN supports 256 snapshot versions
- Move between snapshot versions with ease
- Supports scheduled iSCSI LUN snapshot

## Comprehensive Backup Solutions: Centrally Backup and Manage Data from Different NAS Models and Brands

- FTP, Rsync for 2-way backup and secured data transfers
- Exclusive mission mode effectively increase rate of successful backups
- Internal backup completely utilizes the SATA interface's 6Gbps high speed transfers
- Internal backup + MyArchive = perfect offsite data protection + Unlimited storage capacity expansion
- Multiple choices for cloud backup: Amazon S3, Google Drive, HiDrive, Dropbox, OneDrive
- Data backup center for Windows and Apple computers
- USB One Touch backup



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# Surveillance Center

Worried about leaving your home unattended? Surveillance Center allows you to simultaneously monitor live feeds from multiple IP video cameras, take snapshots and control the pan, tilt and zoom functions of all cameras giving you complete peace of mind. ASUSTOR NAS is your powerful NVR.



## Cross-Browser Support

Receive 4 free camera channel licenses, the most in the industry

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No matter if you are using a PC or Mac, you can still use popular Web browsers for seamless operation.

\* Supports Chrome, Microsoft Edge, Internet Explorer, Firefox on Windows and Safari and Firefox on Mac OSX



## Smart Passive & Active Recording Modes

Surveillance Center provides a variety of passive and active recording modes, no matter if you require, scheduled recording for a specific time period, or recording only once an event has occurred, Surveillance Center is able to meet your needs.



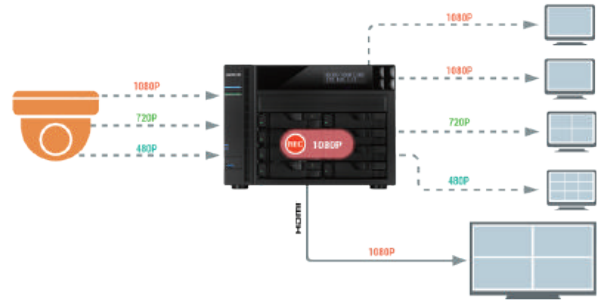
## Automated Event Action Rules

The automated event action rules allow administrators to customize alarm handling rules. When an event occurs, the system can select different measures to handle the situation based on the type of event that occurred or the time the event occurred.



## Instant Notifications

The comprehensive event notification system allows you to configure push notifications, emails or SMS messages according to individual cameras and events. When a specified event occurs, the system will immediately send a notification to you.



## Multi-Stream

Want high resolution recordings but worried about choppy video when viewing surveillance feeds remotely? Surveillance Center now supports 3 independent video streaming modes\*, allowing administrators to configure default resolutions for recordings and viewing feeds remotely. Users can select appropriate resolutions based on network bandwidth and the number of channels that they are viewing, optimizing video streaming under different network bandwidth limitations.

\* Number may vary according to camera brand.



## Centralized Surveillance Software - CMS Lite

A Solution designed for systems with multiple servers spread across different locations, CMS Lite allows surveillance professionals to have more flexibility and convenience when monitoring and playing back video. It can centralize management for up to 128 IP cameras and ASUSTOR NVRs in up to 32 different locations, significantly enhancing management efficiency.



## Local HDMI Output

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Connect your NAS to an HDMI monitor or HD TV and Surveillance Center can provide high resolution video feed monitoring through ASUSTOR Portal. You can also directly search and playback specific recording files via the timeline or calendar and listen to live audio as well!



## Photo Gallery 2 Keeps Your Memories Alive

Photo Gallery is able to display the thousands of photos and videos on your NAS. The album and browse viewing modes, support for multi-level folder structures and sorting easily keep your photos and videos organized. The interactive comment section and one-click sharing to social media allows you to stay connected and share with family and friends. The free AiFoto mobile app also provides instant backup of any photos you take.



## Your Dedicated Cinema: LooksGood 2

LooksGood is a dedicated management center for video files and a Web-based video player. Compatible with the most popular web browsers, users need only enable the LooksGood App from within ADM to begin playing 1080p high definition videos. The LooksGood 2.0 features a stylish and modern interface that displays video collections via thumbnails and a poster wall layout for easy browsing. Furthermore, enhanced smart database management now provides global searches providing more speed and efficiency for users. LooksGood also supports Chromecast and DLNA, allowing you to stream your videos to a big screen and share them with your friends and family. In addition, You can watch videos on Apple TV through the AiVideos tvOS version.



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## WOW (Wake on WAN), Always on Standby

WOW (Wake-On-WAN) maximizes the access flexibility of your NAS. Using ASUSTOR's dedicated mobile app, you will be able to wake your NAS that is in sleep mode or powered off. Even if you are on an external network you will be able to enable all services on your NAS at any time. WOW truly redefines power saving and convenience on your NAS.



## Ultimate Audio Enjoyment with SoundsGood 2

SoundsGood allows you to easily create an online streaming music platform to play your favorite pop songs or timeless classical pieces from the music collection on your NAS. Via exclusive dual-mode streaming, you can choose to play music to your Web browser or mobile device to enjoy music by yourself or play your music locally from the NAS. The NAS can be connected to devices such as HDMI amplifiers or USB/Bluetooth speakers allowing you to play music for family and friends.

## 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. This provides 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.



## The Dynamic ASUSTOR Portal

Connect your NAS to your TV via HDMI and immediately access ASUSTOR Portal. Further combine it with an audio amplifier and experience the crystal clear sound of high resolution multi-channel audio. Get ready to enjoy your favorite digital entertainment like never before.

## Supports Kodi 17 Featuring A New Look and Enhanced Functions!

ASUSTOR offers the Kodi 17 App for ASUSTOR 31, 32, 50, 51, 61, 62, 63, 64 and 7 series NAS users. This newest version of Kodi features a brand new default skin and improvements to video playback, the music library, live TV and PVR/DVR functionality.



## HDMI 2.0 Combined with 4K/UHD Output Provides Crystal Clear Quality Displayed Perfectly

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The AS63/64 series supports next generation HDMI 2.0 specifications, featuring up to 60/50P 4K resolution video which provides twice the fluidity of 4K 30P. Combined with built-in 2GB/8GB dual channel memory, this allows for the playback of 4K/UHD with unparalleled smoothness. No matter if it's your treasured collection of Blu-ray quality movies or videos that you have recorded with professional quality cameras, ASUSTOR NAS can perfectly display all of it in crystal clear quality.

## Browse a Variety of Websites

In addition to pre-loading Netflix and YouTube, ASUSTOR Portal allows you to browse even more websites to enjoy videos, chat and keep up with the news after installing URL-Packs.



# Mobile Apps



## AiMaster

Having trouble finding a PC for NAS initialization? This is no problem with an ASUSTOR NAS. AiMaster's exclusive initialization function makes it easy to set up and manage your NAS. No matter if it is adding new users, creating shared folders, remote wake-up, installing exciting new NAS Apps, upgrading your firmware or checking the real-time status of your system, AiMaster can help you get it done with ease.



## AiDownload

Search for required torrents in seconds and add them to Download Center on your NAS. You can also monitor any current download tasks. As soon as download tasks are finished, your mobile device will be notified via push notification. Furthermore, AiDownload for Android now supports the uploading of torrent files and the adding of RSS feeds.



## AiRemote

A mobile app that can be used to control ASUSTOR Portal. From navigating the XBMC/Kodi interface menus to controlling video playback and adjusting volume, all is easy to do with AiRemote. Additionally, AiRemote provides a touchpad mode and keyboard for controlling the cursor and entering words when using the Chrome Web browser.



## AiData

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.



## AiFoto

Use AiFoto to browse through your precious memories stored in Photo Gallery or upload any pictures taken with your mobile device directly to your NAS. Additionally, offline albums support passcode protection, adding an extra layer of security. Additionally, AiFoto now supports RAW images and video playback.



## AiSecure

AiSecure allows you to effortlessly keep an eye on your most valued assets. In addition to monitoring live surveillance feeds, the push notifications can be sent immediately to your mobile device in the event of any disruptions, allowing you to instantly grasp the latest developments.



## AiMusic

AiMusic allows you to stream music from your NAS to your mobile device. Effortlessly select songs from different genres in an organized music library or even download entire playlists to your mobile device for offline listening. Enabling random playback allows you to create a random playlist at any time. Now no matter where you are, you'll always have your music with you.



## AiVideos

AiVideos supports real-time transcoding, and allows you to experience a high resolution video streaming experience by selecting the video of your choice from the dazzling poster wall interface. AiVideos also supports Chromecast, allowing you to stream your videos to a big screen and share them with your friends and family. AiVideos tvOS version supports to watch videos on Apple TV.



## AiCast

AiCast allows you to use the most intuitive methods to enjoy digital video entertainment. Use the beautiful poster wall to browse through your videos and select any one to play it on your big screen with Kodi. You can also use AiCast to remotely control playback on your TV at home when you are away or use it to control playback on multiple NASes and displays at a storefront.



# Hardware Specifications

## Home

	AS1002T	AS1004T	AS3102T	AS3104T	AS3202T	AS3204T
Processor	Marvell ARMADA-385 1GHz Dual-Core Processor		Intel Celeron 1.6GHz Dual-Core Processor (burst up to 2.08~2.48GHz)		Intel Celeron 1.6GHz Quad Core Processor (burst up to 2.24 Hz)	
Memory	512 MB DDR3 (non-upgradeable)		2GB DDR3L (non-upgradeable)		2GB DDR3L (non-upgradeable)	
Internal Disk*	2 x SATA3 6Gb/s; 3.5" HDD	4 x SATA3 6Gb/s; 3.5" HDD	2 x SATA3 6Gb/s; 3.5" HDD	4 x SATA3 6Gb/s; 3.5" HDD	2 x SATA3 6Gb/s; 3.5" HDD	4 x SATA3 6Gb/s; 3.5" HDD
External Device Interface	2 x USB 3.0 (Front x1; Rear x1)		3 x USB 3.0 (Front x1; Rear x2)		3 x USB 3.0 (Front x1; Rear x2)	
LAN Port	1 x Gigabit		1 x Gigabit		1 x Gigabit	
Dimensions (HxWxD)	165 x 102 x 218 mm	165 x 164 x 218 mm	165 x 102 x 218 mm	165 x 164 x 218 mm	165 x 102 x 218 mm	165 x 164 x 218 mm
Weight	0.99 kg / 2.18 lb	1.5 kg / 3.3 lb	1.17 kg / 2.58 lb	1.6 kg / 3.53 lb	1.17 kg / 2.58 lb	1.6 kg / 3.53 lb
Power	External Power Adapter: 65 W	External Power Adapter: 90 W	External Power Adapter: 65 W	External Power Adapter: 90 W	External Power Adapter: 65 W	External Power Adapter: 90 W
Operation	13.2 W	24.4 W	13.7 W	24.5 W	16.4 W	27 W
Disk Hibernation	6.6 W	11.5 W	7.47 W	11.1 W	7.75 W	11.4 W
Sleep Mode (S3)	No Sleep Mode	No Sleep Mode	0.69 W	0.69 W	0.79 W	0.79 W
Volume Type	Single, JBOD, RAID 0 / 1	Single, JBOD, RAID 0 / 1 / 5 / 6 / 10	Single, JBOD, RAID 0 / 1	Single, JBOD, RAID 0 / 1 / 5 / 6 / 10	Single, JBOD, RAID 0 / 1	Single, JBOD, RAID 0 / 1 / 5 / 6 / 10
HD Display	-		1 x HDMI 1.4b			
Infrared Receiver	-		Yes			
Audio Output	-					
Disk Tray Lock	No HDD Tray					
LCD Panel	-					

# Hardware Specifications

## Power User / SOHO / SMB

	AS6102T	AS6104T	AS6202T	AS6204T
Processor	Intel® Celeron 1.6 GHz Dual-Core Processor (burst up to 2.08~2.48 GHz)		Intel® Celeron 1.6 GHz Quad Core Processor (burst up to 2.08~2.24 GHz)	
Memory	2GB SO-DIMM DDR3L (Expandable. MAX. 8GB, 4GB x 2)		4GB SO-DIMM DDR3L (Expandable. MAX. 8GB, 4GB x 2)	
Internal Disk*	2 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD	4 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD	2 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD	4 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD
External Device Interface	3 x USB 3.0 (Front x1 ; Rear x2), 2 x USB2.0, 2 x eSATA		3 x USB 3.0 (Front x1 ; Rear x2), 2 x USB2.0, 2 x eSATA	
LAN Port	2 x Gigabit		2 x Gigabit	
Dimensions (HxWxD)	163.5 x 108 x 230 mm	185.5 x 170 x 230 mm	163.5 x 108 x 230 mm	185.5 x 170 x 230 mm
Weight	2 kg / 4.41 lb	2.9 kg / 6.39 lb	2 kg / 4.41 lb	2.9 kg / 6.39 lb
Power	External Power Adapter: 65 W		External Power Adapter: 90 W	
Operation	16.6 W	27.5 W	16.6 W	27.5 W
Disk Hibernation	9.5 W	13.6 W	9.5 W	13.6 W
Sleep Mode (S3)	0.96 W	0.95 W	0.96 W	0.95 W
Volume Type	Single, JBOD, RAID 0 / 1	Single, JBOD, RAID 0 / 1 / 5 / 6 / 10, RAID 1 / 5 + Hot Spare	Single, JBOD, RAID 0 / 1	Single, JBOD, RAID 0 / 1 / 5 / 6 / 10, RAID 1 / 5 + Hot Spare
HD Display	1 x HDMI 1.4b		1 x HDMI 1.4b	
Infrared Receiver	Yes		Yes	
Audio Output	1 x S / PDIF		1 x S / PDIF	
Disk Tray Lock	-		Yes	
LCD Panel	-		Yes	

## Power User / SOHO / SMB

## Expansion Unit

	AS6208T	AS6210T	AS6302T	AS6404T	AS6004U
Processor	Intel® Celeron 1.6 GHz Quad Core Processor (burst up to 2.24 GHz)		Intel® Celeron 2.0 GHz Dual-Core Processor (burst up to 2.5 GHz)	Intel® Celeron 1.5 GHz Quad Core Processor (burst up to 2.3 GHz)	External Ports
Memory	4GB SO-DIMM DDR3L (Expandable. MAX. 8GB, 4GB x 2)		2GB DDR3L (Expandable. MAX. 8GB, 4GB x 2)	8GB DDR3L (Expandable. MAX. 8GB, 4GB x 2)	USB 3.0 Type B
Internal Disk*	8 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD	10 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD	2 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD	4 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD	Maximum Internal Raw Capacity
External Device Interface	3 x USB 3.0 (Front x1 ; Rear x2), 2 x USB2.0, 2 x eSATA		3 x USB 3.0 Type A (Front x1 ; Rear x2), 1 x USB3.0 Type C		40 TB (10TB HDD x 4)
LAN Port	4 x Gigabit		2 x Gigabit (Wake On Wan)		Internal Disk*
Dimensions (HxWxD)	215.5 x 293 x 230 mm		163.5 x 108 x 230 mm	185.5 x 170 x 230 mm	4 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD
Weight	6.2 kg / 13.67 lbs	6.4 kg / 14.1 lbs	2 kg / 4.41 lb	2.9 kg / 6.39 lb	Dimensions (HxWxD)
Power	Internal Power Supply: 250 W		External Power Adapter: 65 W	External Power Adapter: 90 W	185.5 x 170 x 230 mm
Operation	59.5 W	68.3 W	13.8 W	24 W	Weight
Disk Hibernation	31.2 W	34.4 W	7.2 W	11.2 W	2.7 kg / 5.95 lbs
Sleep Mode (S3)	1.5 W	1.5 W	0.34 W	0.44 W	Disk Tray Lock
Volume Type	Single, JBOD, RAID 0 / 1 / 5 / 6 / 10, RAID 1 / 5 / 6 / 10 + Hot Spare		Single, JBOD, RAID 0 / 1	Single, JBOD, RAID 0 / 1 / 5 / 6 / 10, RAID 1 / 5 + Hot Spare	Yes
HD Display	1 x HDMI 1.4b		1 x HDMI 2.0		Front Panel LED
Infrared Receiver	Yes		Yes		Power, Status, Link, Alert, HDD
Audio Output	1 x S / PDIF		1 x S / PDIF		Power Supply
Disk Tray Lock	Yes		-	Yes	External Power Adapter: 90W
LCD Panel	Yes		-	Yes	Volume Type
Service LED	-		-	-	Single, JBOD, RAID 0/1/5/6/10, RAID 1/5+Hot Spare

\*Must be Used in Combination with ADM 3.0



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www.asustor.com

Dealer Seal

1553-C0ENG021-170

# Hardware Specifications

\*Disk not included. Check [www.asustor.com](http://www.asustor.com) for compatible disk models.

Enterprise														
	AS7004T <span style="color:red">New</span>		AS7008T		AS7010T <span style="color:red">New</span>		AS6212RD		AS7012RD/AS7012RDX					
Processor	Intel® Core i3 3.5 GHz Dual-Core Processor		Intel® Core i5 3.0 GHz Quad Core Processor		Intel® Core i3 3.5 GHz Dual-Core Processor		Intel® Core i5 3.0 GHz Quad Core Processor		Intel Celeron 1.6GHz Quad Core Processor (burst up to 2.24GHz)		RD: Intel® Core i3 3.5 GHz Dual-Core Processor RDX: Intel® Xeon E3 3.4 GHz Quad Core Processor			
Memory	2 GB SO-DIMM DDR3 (Expandable: MAX. 16GB)		8 GB SO-DIMM DDR3 (Expandable: MAX. 16GB)		2 GB SO-DIMM DDR3 (Expandable: MAX. 16GB)		2 GB SO-DIMM DDR3 (Expandable: MAX. 16GB)		8 GB SO-DIMM DDR3 (Expandable: MAX. 16GB)		4 GB SO-DIMM DDR3L (Expandable: MAX. 8GB, 4GB x 2)		RD: 4 GB UDIMM DDR3 (Expandable: MAX. 32GB) RDX: 4 GB ECC UDIMM DDR3 (Expandable: MAX. 32GB)	
Internal Disk*	4 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD		8 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD		10 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD		4 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD		12 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD		9 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD		12 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD	
External Device Interface	3 x USB 3.0 (Front x1 ; Rear x2), 2 x USB 2.0, 2 x eSATA		3 x USB 3.0 (Front x1 ; Rear x2), 2 x USB 2.0, 2 x eSATA		3 x USB 3.0 (Front x1 ; Rear x2), 2 x USB 2.0, 2 x eSATA		4 x USB 3.0		4 x USB 3.0		4 x USB 3.0, 2 x eSATA			
LAN Port	2 x Gigabit		2 x Gigabit		2 x Gigabit		4 x Gigabit		4 x Gigabit		4 x Gigabit			
Expansion Slot	-		1 x for optional expansion 10-GbE card		-		-		-		2 x for optional expansion 10-GbE / SAS card			
Dimensions (HxWxD)	185.5 x 170 x 230 mm		215.5 x 293 x 230 mm		215.5 x 293 x 230 mm		44 x 439 x 515 mm		88 x 439 x 535 mm		88 x 439 x 535 mm			
Weight	3.9 kg / 8.6 lb		7.2 kg / 15.87 lb		7.4 kg / 16.31 lb		AS6204RS: 7.65 kg / 16.87 lb AS6204RD: 9.2 kg / 20.28 lb		AS6212RD: 12.7 kg / 27.99 lb		AS7009RD: 13.6kg / 29.98lb AS7009RDX: 13.6kg / 29.98lb		AS7012RD: 13.74kg / 30.29lb AS7012RDX: 13.74kg / 30.29lb	
Power	Internal Power Supply: 250 W		Internal Power Supply: 350 W		Internal Power Supply: 350 W		Internal Power Supply: 250 W		Internal Power Supply: 350 W		Internal Power Supply: 600 W			
Operation	39.1 W		80.3 W		99.2 W		35.5 W / 49.5 W		94.6 W		103 W / 103 W		122 W / 123 W	
Disk Hibernation	29.4 W		43.7 W		54.4 W		21.9 W / 36.7 W		52 W		53.9 W / 54.9 W		54.8 W / 55.6 W	
Sleep Mode (S3)	1.8 W		1.97 W		1.97 W		1.5 W / 7.7 W		2.4 W		4.09 W / 4.09 W		4.09 W / 4.13 W	
Volume Type	Single, JBOD, RAID 0 / 1 / 5 / 6 / 10, RAID 1 / 5 + Hot Spare		Single, JBOD, RAID 0 / 1 / 5 / 6 / 10, RAID 1 / 5 / 6 / 10 + Hot Spare		Single, JBOD, RAID 0 / 1 / 5 / 6 / 10, RAID 1 / 5 / 6 / 10 + Hot Spare		Single, JBOD, RAID 0 / 1 / 5 / 6 / 10, RAID 1 / 5 + Hot Spare		Single, JBOD, RAID 0 / 1 / 5 / 6 / 10, RAID 1 / 5 / 6 / 10 + Hot Spare		Single, JBOD, RAID 0 / 1 / 5 / 6 / 10, RAID 1 / 5 / 6 / 10 + Hot Spare			
HD Display	1 x HDMI 1.4a		1 x HDMI 1.4a		1 x HDMI 1.4a		1 x HDMI 1.4b		1 x HDMI 1.4b		1 x HDMI 1.4a, 1 x VGA			
Infrared Receiver	Yes		Yes		Yes		-		-		-			
Audio Output	1 x S / PDIF		1 x S / PDIF		1 x S / PDIF		-		-		-			
Service LED	-		-		-		Yes		Yes		Yes			
Redundant Power Supply	-		-		-		-		Yes		Yes			
Disk Tray Lock	Yes		Yes		Yes		Yes		Yes		Yes			
LCD Panel	Yes		Yes		Yes		-		-		-			

## Software & Features

### Operating System

- ADM 3.0 Onwards
- Supports Online Firmware Updates
- Built-in App Central for Various Apps

### Access Control

- Supports 2-Step Verification
- Supports Batch Creation and Importation of ADM Accounts
- Supported Importation File Format: txt, csv
- Maximum Number of Users: 1024 (AS10 series) / 4096 / 16384 (AS70 series)
- Maximum Number of Groups: 256 (AS10 series) / 512
- Maximum Number of Shared Folders: 256 (AS10 series) / 512
- Maximum Number of Concurrent Connections: 128 (AS10 series) / 512 / 2048 (AS70 series)
- Supports Windows Active Directory

### 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

### Backup Solutions (Two-Way Backup)

- Rsync (Remote Sync) Backup
- Cloud Backup
- FTP Backup
- External Backup
- One Touch Backup
- Internal Backup
- Apple@Time Machine@ backup application
- ASUSTOR Backup Plan (Windows)

### Customized Sign In Page

- 2 Different Template Choices
- Customizable Title, Image and Background
- Image Import Function
- System Announcements
- App Shortcuts

### 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

### External Devices

- Supports USB/eSATA 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: 64 (AS10 series) / 256
- Maximum Snapshot Versions of a Single LUN: 256
- Maximum LUNs: 64 (AS10 series) / 256 / 512 (AS70 series)
- Supports Scheduled LUN Snapshot
- Target Masking
- LUN Mapping
- ISO File Mounting
- Supports MPIO
- Persistent (SCSI-3) Reservations

### MyArchive

- Insert Hard Disk & Immediately Access Files
- Transfer or Exchange Terabytes of Data via the Internal Hot-Swap SATA Interface
- Supported MyArchive Bay Number: N-1
- Supported File System Formats: EXT4, NTFS, HFS+
- Supports Self-defined Alias Name
- Supports AES 256-bit Encryption for MyArchive Disks (in EXT4 format only)

### DHCP Server

- Supports Multiple IP Subnets Assignment
- Supports Lease Time, DHCP Reservation

### Network

- TCP/IP (IPv4 & IPv6)

- Jumbo Frame (MTU)
- VLAN
- EZ-Connect
- Wireless Network
- DDNS and EZ-Router
- Supports Wake-on-LAN (WOL), Wake-on-WAN (AS6302T、AS6404T)

### Network Protocols

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

### Security

- AES 256-Bit Folder Encryption
- Built-in Hardware Encryption Engine: AS70/61/62/31/32/10 Series
- 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
- Supports Let's Encrypt
- Supports Intermediate Certificate
- Alert Notifications: E-mail, SMS, Pushbullet, Pushover, AiMaster

### 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

### Supported OS

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

### Supported Browsers

- Internet Explorer 11 Onwards
- Firefox
- Chrome
- Safari
- Microsoft Edge

## Supported Languages

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

## System Administration

- Support scheduled upgrade ADM & AppLog 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
- One-click Restore
- Supports Scheduled Emptying
- Filtering Rules

# Featured Apps

## Antivirus

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

## ASUSTOR Portal (HDMI Local Output)

- Simultaneously view 4 channels of high resolution real-time video feeds and playback recordings
- 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) / 2160p (4K)<sup>2</sup>
- ADM integrated for local system management
- URL-Pack connects popular video streaming websites, URL-Pack-Social provides links to a variety of social media platforms

## 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
- Smart Download Function

## DataSync for CloudDrive

- Support Google Drive, HiDrive, Dropbox, Microsoft OneDrive, hubiC, Yandex
- Each ADM account is able to individually log into a Cloud Storage account
- Supported backup methods:
  - Sync
  - Directly upload files to Cloud from NAS
  - Directly download files from Cloud to NAS

## File Explorer

- Web-based File Management
- ISO File Mounting
- Share Links
- Data Access via External Optical Drive
- Supports video playback

## 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

## iTunes Server

- For iTunes on Mac & Windows
- Supports AirPlay
- Supports iOS Remote Pairing
- Supported Audio Formats: AIF<sup>3</sup>, M4A (AAC & Apple Loseless), M4P, M4R, MP3, WAV<sup>3</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
- 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

## 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

## 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

## 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, Firefox, Chrome, Microsoft Edge, Mac Safari
- Event notification supports SMS, E-mail, and mobile push notification
- Automated event action rules
- Role-based access control
- AiSecure mobile app for iOS and Android
- ONVIF™ 2.4, Profile S certified
- Two different camera license packages are offered: single channel and 4 channels
- AS10/2/3 Series Devices Support up to 8 Channels, AS6 Series Devices Support up to 16 Channels, AS31/32 Series Devices Support up to 25 Channels, AS50/51 Series Devices Support up to 30, AS61/62/63/64 Series Devices Support up to 36 Channels, AS70 Series Devices Support up to 64 Channels
- CMS Lite support centralize management for up to 128 IP Camera

## Minimum Computer System Requirements

- CPU: i5/i7 or Above
- RAM: DDR3 4G or Above
- Supported Operating Systems: Windows 7 and Onwards, Mac OS X
- Recommended Monitor Resolution: 1280 x 800 Pixels
- Network Interface: Gigabit x 1
- Dedicated Graphics Card is Recommended
- \* Surveillance Center Version 2.6.0 and Above

## UPnP Media Server

- Offers 3 Different Server Choices: UPnP v1, UPnP v2, MiniDLNA
- Supports PS3/Xbox and Other UPnP Compatible Players
- Supported Video Formats\*: 3GP, 3G2, ASF, AVI, DAT, FLV, ISO, M2T, M2V, M2TS, M4V, MKV, MPv4, MPEG1, MPEG2, MPEG4, MTS, MOV, QT, SWF, TP, TRP, TS, VOB, WMV, RMVB, VDR, MPE
- \* The supported formats may differ depending on the UPnP client in use.

## 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
- Supports OpenVPN Configuration Files Importation

## VPN Server

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

## Kodi<sup>3</sup>

- Support Kodi 17
- Play All Media Content Stored on NAS
- Video Output via HDMI
- TV Shows, Movies, Apps and More
- ASUSTOR Customized Features
- AiRemote Mobile App for iOS & Android
- Supports SBS 3D Playback (Side By Side)
- Max resolution: 1080p (HD) / 2160p (4K)<sup>2</sup>

## 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

## Linux Center

- Integrate NAS operating system with Linux
- Flexible use of the Linux App
- Easy installation with just one touch
- HDMI output on command

## More...

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

## Note:

1. ASUSTOR recommends that ASUSTOR Portal be used with a TV with a resolution of 720p or higher or a monitor supporting audio output.
2. Currently, 2160p (4K) is Only Available on the AS70/61/62/31/32 Series with a Monitor Refresh Rate of 30Hz. AS63/64 Series Devices are able to Provide 4K Output at 60Hz.
3. Currently, Kodi is only available on the AS70/50/51/61/62/63/64/31/32 series.
4. Metadata (e.g. title) may not be able to displayed in iTunes.