asustor *an ASUS assoc. co.*

More Than Just Storage

Discover the Extraordinary with ASUSTOR

Performance King   Boundless Functionality   Intuitive UI   Incredible Value   3-Year Warranty

ASUSTOR Data Master

Snapshot Center makes managing Snapshots easy!

Snapshot Center is a new app that makes it easier to manage, schedule, create and restore snapshots. Schedules can be set to create snapshots or be manually created at anytime. Snapshots also make it incredibly easy to restore previous versions of files and can be integrated with existing iSCSI LUNs in Snapshot Center with all volume snapshots at a glance for easy browsing and restoration.

SSD Caching - SSD-like performance with traditional hard drives

Traditional hard drives are not as fast as SSDs, but durability and capacities are not nearly as good. The best way to combine the best of both worlds is with SSD caching. SSD caching saves frequently accessed data on a hard drive and temporarily stores it on an SSD, thereby optimizing response times and transfer rates when accessing data. A variety of ASUSTOR NAS devices support* read-only access and read-write cache mode. Follow the installation wizard to easily access storage with the best balance of capacity and performance.
*2.5" SSD supported Models: AS31/32/50/51/52/53/61/62/63/64/70/Lockerstor(AS65) series
*M.2 SSD supported Models: Lockerstor(AS65) series

EZily connect to your NAS with EZ-Connect and EZ-Connect.to

Easily connect remotely to your NAS even in network environments with multiple routers from within the network. ASUSTOR's EZ-Connect supports a variety of features, including, but not limited to Internet passthrough and remote shared folder mounting on Windows Explorer.

EZ-Connect.to uses a web browser to connect to a NAS remotely and access data. Sign up for an ASUSTOR cloud ID and append it to the URL followed by a dot and ezconnect.to to access data on your NAS anytime and anywhere with an internet connection.
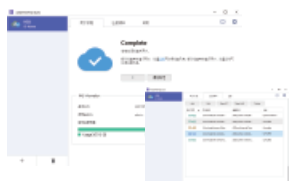
EZ Sync will automatically synchronize files between computer and NAS

EZ Sync supports a wide array of ASUSTOR NAS features, including, but not limited to mobile apps, such as AiData and Sharelinks. ASUSTOR EZ Sync also supports file history management by allowing the user to restore previous copies of a file in the event of unintentional modifications.

Gaming Storage

All New Gaming-Inspired Theme for ADM

- ADM supports iSCSI to store less demanding titles to play across multiple devices simultaneously
- Download videos from YouTube and Twitch for archival purposes with Takeasy and download all public content from a channel
- Download StreamsGood and start streaming and interacting with your favorite streamers today
*supported model: AS52/53 series

Fresh New Look and Intuitive Enhancements

Business

AD + ACL   Windows

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.

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

Enhanced Data Security While Maintaining Top-Flight Performance

ASUSTOR NAS devices feature hardware encryption. Supporting the AS10/31/32/52/53/62/63/64/70/Lockerstor(AS65) series, encrypted data is able to be transferred with less load on the CPU, maintaining performance.

AS7010T unencrypted and encrypted transfer speed 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

Batch Creation of ADM Accounts

Quickly create multiple accounts in ADM simultaneously with batch creation. With batch creation, accounts can be created sequentially with numbers or user data can be uploaded with a text or comma separated file.

Supporting LDAP Clients. Centralized control now more convenient than ever

LDAP technology can more efficiently manage user authentications or computer resource permissions across the enterprise. ASUSTOR NAS originally only supported Microsoft's Windows Active Directory service. ADM 3.1 adds an LDAP client. Easily add an ASUSTOR NAS to an existing LDAP server providing an easier way to manage and improve productivity.

Virtualization Ready

iSCSI and NFS support on ASUSTOR NAS devices allows you to seamlessly integrate with existing IT environments.
VMware support: AS52/53/62/63/64/70/Lockerstor(AS65) series
Citrix support: AS52/53/62/63/64/70/Lockerstor(AS65) series
Hyper-V support: All ASUSTOR NAS series

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
- Internal backup utilizes SATA 6Gbps transfer speeds

Exclusive

Surveillance Center

Simultaneously monitor live feeds from multiple IP cameras using Surveillance Center. Take snapshots, control panning, tilting and zooming all cameras giving you complete peace of mind over your belongings.

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.

Local HDMI Output   *Exclusive*

Connect your NAS to an HDMI monitor or HDTV and Surveillance Center provide high resolution video feeds through ASUSTOR Portal. Directly search and play back specific recording files using the timeline or calendar and listen to live audio as well.

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. Manage up to 128 IP cameras and ASUSTOR NVRs in up to 32 different locations, significantly enhancing management efficiency

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.

Cross-Browser Support
Receive 4 free camera channel licenses, the most in the industry   *Exclusive*

Use virtually any browser on Windows and macOS for seamless operation.
*Supports Chrome, Microsoft Edge, Internet Explorer, Mozilla Firefox on Windows and Safari and Mozilla Firefox on macOS

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.

Multi-Stream

Surveillance Center now supports 3 independent video streaming modes*, allowing administrators to configure default resolutions for recordings and viewing feeds remotely. 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.

Lifestyle Applications

Photo Gallery 3 will support a new Smart Album feature, as well as smart photo management features

Coming soon

Photo Gallery 3 Beta supports a wide variety of new features. Photo Gallery 3 Beta is now able to select any folders on a NAS as a media source, supports new timeline and multiple album viewing features, including but not limited to smart albums, general albums, shared albums and albums shared with me for easier viewing of photos. One of the newest features for smart albums on Photo Gallery 3 Beta is support for location recognition. After uploading photos to a NAS, Photo Gallery 3 automatically helps organize photos, making large album management easier than ever.

Your Dedicated Cinema: LooksGood

LooksGood is a dedicated video management center web-based video player. Compatible with the most popular web browsers, enable the LooksGood app from within ADM to begin playing high definition videos. LooksGood 2.0 features a stylish and modern UI that displays video collections using thumbnails and a poster wall layout for easy browsing. Furthermore, enhanced smart database management now provides global searches providing more speed and efficiency. LooksGood also supports Chromecast, DLNA and Apple TV using AiVideos, allowing you to stream your videos to the big screen and share them with friends and family.

WOW (Wake on WAN), Always on Standby

Exclusive

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.
* Supported Models: AS52/53/63/64/Lockerstor(AS65) series
* ADM3.0 Onwards

Ultimate Audio Enjoyment with SoundsGood

Easily create an online streaming music platform with SoundsGood to play your favorite pop songs or timeless classical pieces from the music collection on your NAS. With 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. Connect to devices from your NAS to HDMI amplifiers or USB/Bluetooth speakers to allow you to play music for friends and family.

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.
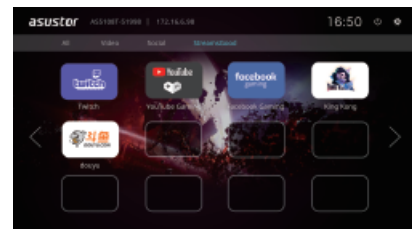
StreamsGood

Install StreamsGood to watch live streams on ASUSTOR Portal. StreamsGood supports five major gaming streaming sites such as Twitch, YouTube Gaming, Facebook Gaming, Douyu and King Kong.
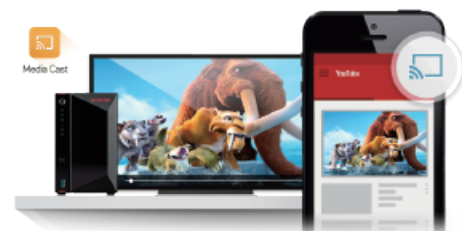
Mobile Youtube Video PlaybeckMobile YouTube Video Playback

Tap on the Media Cast button and then select ASUSTOR NAS. Your phone or tablet will then be able to select videos and then have them played on your TV from your HDMI connection on your NAS. During video playback, your mobile device can still be used to receive phone calls and open other apps without affecting YouTube playback.
* Supported Models: AS31/32/52/53/61/62/63/64/70 series

Enjoy an Unparalleled Digital Lifestyle

AiMaster

Initialize a NAS easily without a PC by using AiMaster on a phone 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 helps you get it done with ease.

AiDownload

Search for torrents in seconds and add them to Download Center on your NAS. You can also monitor any current downloads. As soon as downloads are finished, push notifications will be sent your mobile device. Furthermore, AiDownload for Android now supports the uploading of torrent files and RSS feeds. For Android OS only.
 *This feature is supported on Android devices.

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.

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, enabling a high resolution video streaming experience by selecting the video of your choice from the app. AiVideos also supports Chromecast and Apple TV, allowing you to stream your videos to the big screen and share them with friends and family.

AiSecure

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

AiRemote

Control ASUSTOR Portal without a keyboard and mouse. From navigating the media player menus to controlling video playback and adjusting volume, AiRemote makes it easy. Additionally, AiRemote provides touchpad and keyboard modes when using the included Chrome browser.

Hardware Specifications

Personal to Home				
	AS1002T v2	AS1004T v2	AS3102T v2	AS3204T v2
Processor	Marvell ARMADA-385 1.6 GHz Dual-Core Processor	Marvell ARMADA-385 1.6 GHz Dual-Core Processor	Intel Celeron 1.6 GHz Dual-Core (2.48Ghz turbo) Processor	Intel Celeron 1.6 GHz Quad-Core (2.24Ghz turbo) Processor
Memory	512 MB DDR3 (non-upgradeable)	512 MB DDR3 (non-upgradable)	2GB DDR3L (non-upgradeable)	2GB DDR3L (non-upgradable)
Internal Disk*	2 x SATA3 6Gbps; 3.5" HDD	4 x SATA3 6Gbps; 3.5" HDD	2 x SATA3 6Gbps; 3.5" HDD	4 x SATA3 6Gbps; 3.5" HDD
External Device Interface	2 x USB 3.0	2 x USB 3.0	3 x USB 3.0	3 x USB 3.0
LAN Port	1 x Gigabit	1 x Gigabit	2 x Gigabit	2 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
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
Power	External Power Adapter: 65 W	External Power Adapter: 90 W	External Power Adapter: 65 W	External Power Adapter: 90 W
Operation	14.1 W	24.6 W	14.6 W	26.3 W
Disk Hibernation	6.9 W	11.3 W	8.1 W	12.2 W
Sleep Mode (S3)	No Sleep Mode	No Sleep Mode	0.89 W	0.97 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
HD Display	-	-	1 x HDMI 1.4b	1 x HDMI 1.4b
Infrared Receiver	-	-	Yes	Yes
Audio Output	-	-	-	-
Disk Tray Lock	No	No	No	No
LCD Panel	-	-	-	-

Hardware Specifications

Home to Power User | Expansion Units

	AS4002T	AS4004T	AS5202T	AS5304T		AS6004U
Processor	Marvell ARMADA-7020 1.6 GHz (Dual-Core) Processor	Marvell ARMADA-7020 1.6 GHz (Dual-Core) Processor	Intel Celeron J4005 Dual-Core 2.0 GHz (2.7GHz turbo) Processor	Intel Celeron J4105 Quad-Core 1.5 GHz (2.5GHz turbo) Processor	External Ports	USB 3.0 Gen 1 Type B
Memory	2GB DDR4-2400 (non-upgradable)	2GB DDR4-2400 (non-upgradable)	2G DDR4 SO-DIMM (Expandable. MAX. 8 GB)	4G DDR4 SO-DIMM (Expandable. MAX. 8 GB)	Maximum Internal Raw Capacity	48 TB (4 x 12TB HDD)
Internal Disk*	2 x SATA3 6Gbps; 3.5"/2.5" HDD/SSD	4 x SATA3 6Gbps; 3.5"/2.5" HDD/SSD	2 x SATA3 6Gbps; 3.5"/2.5" HDD/SSD	4 x SATA3 6Gbps; 3.5"/2.5" HDD/SSD	Internal Disk*	4 x SATA3 6Gbps; 3.5"/2.5" HDD/SSD
External Device Interface	2 x USB 3.1 Gen 1	2 x USB 3.1 Gen 1	3 x USB 3.2 Gen 1	3 x USB 3.2 Gen 1		
LAN Port	2 x Gigabit, 1 x 10GbE	2 x Gigabit, 1 x 10GbE	2 x 2.5 Gigabit (Wake On Wan)	2 x 2.5 Gigabit (Wake On Wan)	Dimensions (HxWxD)	185.5 x 170 x 230 mm
Dimensions (HxWxD)	170 x 114 x 230 mm	170 x 174 x 230 mm	170 x 114 x 230 mm	170 x 174 x 230 mm		
Weight	1.6 kg / 3.53 lbs	2.2 kg / 4.85 lbs	1.6 kg / 3.53 lbs	2.2 kg / 4.85 lbs	Weight	2.7 kg / 5.95 lbs
Power	External Power Adapter: 65 W	External Power Adapter: 90 W	External Power Adapter: 65 W	External Power Adapter: 90 W	Disk Tray Lock	Yes
Operation	19.5 W	31.5 W	17 W	27 W	Front Panel LED	Power, Status, Link, Alert, HDD
Disk Hibernation	12.7 W	17.1 W	10.5 W	12.6 W	Power Supply	External Power Adapter: 90W
Sleep Mode (S3)	No Sleep Mode	No Sleep Mode	1.3 W	1.4 W	Volume Type	Single, JBOD, RAID 0/1/5/6/10, RAID 1/5 + Hot Spare
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 2.0a	1 x HDMI 2.0a		
Infrared Receiver	-	-	Yes	Yes		*Must be Used in Combination with ADM 3.0 or above
Audio Output	-	-	-	-		
Disk Tray Lock	-	-	-	-		
LCD Panel	-	-	-	-		

Power User to Business

	AS6302T	AS6404T	Lockerstor 8 (AS6508T)	Lockerstor 10 (AS6510T)	AS6204RS/AS6204RD / AS6212RD		
Processor	Intel Celeron J3355 Dual-Core 2.0 GHz (2.5Ghz turbo) Processor	Intel Celeron J3455 Quad-Core 1.5 GHz (2.3Ghz turbo) Processor	Intel ATOM C3538 2.1GHz Quad-Core Processor	Intel ATOM C3538 2.1GHz Quad-Core Processor	Intel Celeron 1.6GHz Quad-Core (2.24Ghz turbo) Processor		
Memory	2GB DDR3L (Expandable. MAX. 8 GB, 2 x 4 GB)	8GB DDR3L (Expandable. MAX. 8 GB, 2 x 4 GB)	8GB SO-DIMM DDR4 (Expandable. MAX. 32 GB)	8GB SO-DIMM DDR4 (Expandable. MAX. 32 GB)	4GB SO-DIMM DDR3L (Expandable. MAX. 8 GB, 2 x 4 GB)		
Internal Disk*	2 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD	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	
M.2 Drive Slots			2x M.2 PCIE(NvMe) or SATA3 supported M.2 2280, 2260 and 2242	2x M.2 PCIE(NvMe) or SATA3 supported M.2 2280, 2260 and 2242	-		
External Device Interface	3 x USB 3.0 Type A (1 x Front ; 2x Rear) 1 x USB 3.0 Type C	3 x USB 3.0 Type A (1 x Front ; 2x Rear) 1 x USB 3.0 Type C	2 x USB 3.2 Gen 1 (1 x Front ; 1x Rear)	2 x USB 3.2 Gen 1 (1 x Front ; 1x Rear)	4 x USB 3.0		
LAN Port	2 x Gigabit (Wake On Wan)	2 x Gigabit (Wake On Wan)	2 x 2.5 Gigabit (Wake On Wan) 2 x 10 Gigabit	2 x 2.5 Gigabit (Wake On Wan) 2 x 10 Gigabit	4 x Gigabit		
Dimensions(HxWxD)	163.5 x 108 x 230 mm	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	
Weight	2 kg / 4.41 lb	2.9 kg / 6.39 lb	6.2 kg / 13.67 lb	6.4 kg / 14.1 lb	AS6204RS: 7.65 kg / 16.87 lb	AS6204RD: 9.2 kg / 20.28 lb	AS6212RD: 12.7 kg / 27.99 lb
Power	External Power Adapter: 65 W	External Power Adapter: 90 W	Internal Power Supply: 250 W	Internal Power Supply: 250 W	Internal Power Supply: 250 W x1	Internal Power Supply: 250 W x 2	Internal Power Supply: 350 W x 2
Operation	13.8 W	24 W	66.9 W	76.8 W	35.5 W	49.5 W	94.6 W
Disk Hibernation	7.2 W	11.2 W	37.2 W	41.1 W	21.9 W	36.7 W	52 W
Sleep Mode (S3)	0.34 W	0.44 W	No Sleep Mode	No Sleep Mode	1.5 W	7.7 W	2.4 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 / 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	
HD Display	1 x HDMI 2.0	1 x HDMI 2.0	-	-	1 x HDMI 1.4b		
Infrared Receiver	Yes	Yes	-	-	-		
Audio Output	1 x S / PDIF	1 x S / PDIF	-	-	-		
Disk Tray Lock	-	Yes	Yes	Yes	Yes		
LCD Panel	-	Yes	Yes	Yes	-		

Dealer Seal

1553-C0ENG041-190

Hardware Specifications

	Small & Medium Business				
	AS7004T		**AS7010T**		**AS7012RD/AS7012RDX**
Processor	AS7004T-i3: Intel® Core i3 3.5 GHz Dual-Core Processor	AS7004T-i5: Intel® Core i5 3.0 GHz Quad-Core Processor	AS7010T-i3: Intel® Core i3 3.5 GHz Dual-Core Processor	AS7010T-i5: Intel® Core i5 3.0 GHz Quad-Core Processor	AS7012RD: Intel® Core i3 3.5 GHz Dual-Core Processor AS7012RDX: Intel® Xeon E3 3.4 GHz Quad-Core Processor
Memory	AS7004T-i3: 2GB DDR3 SO-DIMM (Expandable. MAX. 16 GB)	8GB DDR3 SO-DIMM (Expandable. MAX. 16 GB)	AS7010T-i3: 2GB DDR3 SO-DIMM (Expandable. MAX. 16 GB)	AS7010T-i5: 8GB DDR3 SO-DIMM (Expandable. MAX. 16 GB)	AS7012RD: 4 GB UDIMM DDR3 (Expandable. MAX. 32 GB) AS7012RDX: 4 GB ECC UDIMM DDR3 (Expandable. MAX. 32 GB)
Internal Disk*	4 x SATA3 6Gbps; 3.5"/2.5" HDD/SSD		10 x SATA3 6Gbps; 3.5"/2.5" HDD/SSD		12 x SATA3 6Gbps; 3.5"/2.5" HDD/SSD
External Device Interface	3 x USB 3.0 (1 x Front ; 2x Rear), 2 x USB 2.0, 2 x eSATA		3 x USB 3.0 (1 x Front ; 2x Rear), 2 x USB 2.0, 2 x eSATA		4 x USB 3.0, 2 x eSATA
LAN Port	2 x Gigabit		2 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		88 x 439 x 535 mm
Weight	3.9 kg / 8.6 lb		7.4 kg / 16.31 lb		AS7012RD: 13.74 kg / 30.29 lb — AS7012RDX: 13.74 kg / 30.29 lb
Power	Internal Power Supply: 250 W		Internal Power Supply: 350 W		Internal Power Supply: 2 x 600 W
Operation	39.1 W		99.2 W		122 W — 123 W
Disk Hibernation	29.4 W		54.4 W		54.8 W — 55.6 W
Sleep Mode (S3)	1.8 W		1.97 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
HD Display	1 x HDMI 1.4a		1 x HDMI 1.4a		1 x HDMI 1.4a, 1 x VGA
Infrared Receiver	Yes		Yes		-
Audio Output	1 x S / PDIF		1 x S / PDIF		-
Service LED	-		-		Yes
Disk Tray Lock	Yes		Yes		Yes
LCD Panel	Yes		Yes		-

Software & Features

Operating System
· ADM 3.4 Onwards
· Supports Online Firmware Updates
· Built-in App Central for Various Apps

Supported OS
· Windows XP, Vista, 7, 8, 10, Server 2003, Server 2008, Server 2012, Server 2016
· Mac OS X 10.6 Onwards
· UNIX, Linux, BSD

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/LDAP

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

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

SSD Cache
· SSD-like performance with traditional hard drives
· supports read-only access and read-write cache mode
· *2.5" SSD supported Models: AS31/32/50/51/52/53/61/62/63/64/70/ Lockerstor(AS65) series
  *M.2 SSD supported Models: Lockerstor(AS65) series

Customized Sign In Page
· 2 Different Template Choices
· Customizable Title, Image and Background
· Image Import Function
· System Announcements
· App Shortcuts

Energy Control
· Configurable Disk Hibernation and Sleep Mode Wait Time
· Configurable Time Period for Sleep Mode Activation

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)

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

Disk Management
· Scheduled Bad Block Scans
· Scheduled S.M.A.R.T Scans
· Seagate IronWolf Health Management

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
· USB CD ROM Drive/DVD ROM Drive/BD-ROM

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)

File System
· Internal Disk: ext4, Btrfs
· External Disk: FAT32, NTFS, ext3, ext4, HFS+, exFAT, Btrfs

DHCP Server
· Supports multiple IP subnet assignments
· Supports Lease Time, DHCP Reservation

Network
· TCP/IP (IPv4 & IPv6)
· Jumbo Frames (MTU)
· VLAN
· EZ-Connect
· Wireless Network
· DDNS and EZ-Router
· Supports Wake-on-LAN (WOL)
· Supports Wake-on-WAN: AS52/53/63/64/Lockerstor(AS65) series

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

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

Supported Browsers
- Internet Explorer 11 Onwards
- FireFox
- Chrome
- Safari
- Microsoft Edge

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

Security
- AES 256-Bit Folder Encryption
- Built-in Hardware Encryption Engine:
  AS10/31/32/52/53/62/63/64/70/Lockerstor(AS65) series
- Firewall: Prevent Unauthorized Access
- Network Defender: Prevent Network Attacks
- 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
- RAID Scrubbing: detects the integrity
  and consistency of RAID 5 and RAID 6 drive data

Snapshot Center
- Btrfs snapshots
- Max: 256 snapshots
- Integrated with existing iSCSI LUNs snapshots
- Applicable series:
  AS31/32/52/53/62/63/64/70/Lockerstor(AS65) series
  Snapshot Center will not display Volume snapshots
  information in other models which do not support Btrfs.

Featured Apps

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

ASUSTOR Portal (HDMI Local Output)[1]
- Simultaneously view 4 channels of high resolution
  real-time video feeds and playback recordings
- Supports Chrome and Chromium browsers
- Downloads from Chrome and 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)[2]
- 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 Downloads

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

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

iTunes Server
- For iTunes on Mac & Windows
- Supports AirPlay
- Supports iOS Remote Pairing
- Supported Audio Formats: AIF[3],
  M4A (AAC & Apple Loseless), M4P, M4R, MP3, WAV[3]
- Supported Video Formats: M4V, MOV, MP4
- Supported Playlist Formats: M3U, WPL

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
- Recommends 2GB RAM or more to run
  Windows/Linux, and 4GB RAM
  or more to run other OS

RADIUS Server
- Centralized management of wireless
  networkcertification
- Using WPA-Enterprise or WPA2-Enterprise encryption
- Must be combined with a wireless router
  that supports RADIUS authentication

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 and smart
  video sorting management.
- Efficient Global Search function allows for searches
  by keywords followed by the execution of more
  detailed searches.
- 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, 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, FLAC, 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, FLAC, AIF, AIFF, AAC, M4A, WMA, APE
- ASUS DAC Support

Takeasy
- Download from YouTube, Twitch, Vimeo, YouKu and more
- Selectable the Video Type and Quality
- Automatic Downloads with Subscriptions
- Preview Downloads in Progress
- Online Playback

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

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, 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 Series Devices Support up to 8 Channels,
  AS31/32 Series Devices Support up to 25 Channels,
  AS40 Series Devices Support up to 16 Channels,
  AS52/53/62/63/64 Series Devices Support up to 36 Channels,
  AS70/Lockerstor(AS65) Series Devices Support up to 64 Channels.
- CMS Lite support centralize management
  for up to 128 IP Camera
- Minimum Computer System Requirements:
  - CPU: Intel i5/ i7, AMD Phenom II or above
  - RAM: DDR3 4GB 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 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
- Supports OpenVPN Configuration Files Importation

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