asustor

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More Than Just Storage

Discover the Extraordinary with ASUSTOR

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

ASUSTOR Data Master

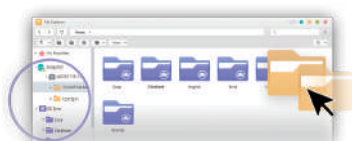## MyArchive Now Supports Btrfs and Snapshots

ASUSTOR's MyArchive has been upgraded again, bringing Btrfs and snapshots. Btrfs enables easy control of your backups by supporting snapshots and version history. If a file is unintentionally modified, it can be recovered. The advent of Btrfs on MyArchive drives enable even safer backups than ever before. MyArchive drives with Btrfs are fully supported on other ASUSTOR NAS devices that support Btrfs, strengthening protection of your data.
Applicable models: AS40/50/51/61/62/63/64/70/Nimbustor/Lockerstor/Lockerstor Pro series

New Preferences Widget – Easily Find the Settings You Want

The all-new preferences widget design integrates all ADM settings, and integrates settings functions that were originally scattered in preferences, access control, and services into a single area. The new interface makes system management more efficient and settings easier to find. Browse and access all related settings with one click.

Browse and Access MyArchive Snapshots and EZ Sync Files

File Explorer has been upgraded browse more diversified data sources. In addition to MyArchive snapshots, historic versions of files are easily accessible through File Explorer to quickly restore previous versions. EZ Sync support has also been added to File Explorer to make files directly accessible. With File Explorer, files and folders can be dragged and dropped directly to and from EZ Sync folders, making EZ Sync easier than ever to use.

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: AS31/32/50/51/61/62/63/64/70/Nimbustor/Lockerstor/Lockerstor Pro series
*M.2 SSD supported Models: Lockerstor/Lockerstor Pro series

Gaming Storage

Game

Video

iSCSI LUN

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
*Feature exclusive to Nimbustor Series

Fresh New Look and Intuitive Enhancements

Business

AD + ACL
Windows

ADM features built-in Windows Active Directory 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 Assigned IP Addresses

- 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 AS10/31/32/62/63/64/70/Nimbustor/Lockerstor/Lockerstor Pro series, encrypted data is able to be transferred with less load on the CPU, maintaining performance.

Lockerstor 10 Pro transfer speed comparison table:

1x 10GbE		3x 2.5GbE	
Read (MB/s)	Write (MB/s)	Read (MB/s)	Write (MB/s)
1181	1178	848	847

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 **Exclusive**
- 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
- EZ Sync

Evolved Network Defender

- Provides Automatic Blacklist to block brute-force attacks
- Trusted List can prevent trusted IP addresses from being automatically blocked in the event of too many inadvertent login failures
- Blacklist and Whitelist can be defined by specific IPs, IP ranges, and geolocation

Batch Creation of ADM Accounts

Quickly create multiple accounts at once in ADM 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. Easily add an ASUSTOR NAS to an existing LDAP server to provide an easier way to manage information and improve productivity.

Virtualization Ready

iSCSI and NFS support on ASUSTOR NAS devices allows you to seamlessly integrate with existing IT environments.
VMware support: AS62/63/64/70/Nimbustor/Lockerstor/Lockerstor Pro series
Citrix support: AS62/63/64/70/Nimbustor/Lockerstor/Lockerstor Pro series
Hyper-V support: All ASUSTOR NAS series

Snapshot Center

- Btrfs snapshots
- Max: 256 snapshots
- Integrated with existing iSCSI LUNs snapshots
- Applicable series: AS31/32/40/50/51/61/62/63/64/70/ Nimbustor/Lockerstor/Lockerstor Pro series
  Snapshot Center will not display Volume snapshots information in other 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.

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

Surveillance Center supports push notifications, emails and SMS messages to individual cameras and events. When an event occurs, Surveillance Center will send out a notification according to its settings.

Local HDMI Output

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

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 Brings Smart Albums and Smart Photo Management

Organize, share, collect and view photos easier than before with Photo Gallery 3. Photo Gallery 3 is now able to select any shared folders on a NAS as a media source to easy importing. Photo Gallery 3 introduces new timeline and multiple album viewing, smart albums, general albums, shared albums and also introduces albums that shared by friends and family making it easier to relive your best memories again and again. Photo Gallery 3 also introduces support for location recognition, ensuring that you no longer forget the place that awesome waterfall resides. After uploading photos to a NAS, Photo Gallery 3 automatically helps organize photos, making large album management easier than ever.

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 yourfavorite digital entertainment like never before.

ASUSTOR Live

Your own streaming center. Stream your from a phone or tablet as well as a computer to multiple streaming platforms, Including, but not limited to YouTube, Twitch, Mixer or RTMP compatible platforms. Unlike services like restream.io, ASUSTOR Live doesn't require fees to operate to stream to multiple platforms and channels which saves you money and streaming resources. Recordings can be safely saved to your NAS for future use.

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.

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.

Exclusive

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.
* Supported Models: AS63/64/Nimbustor/Lockerstor series
* ADM3.0 Onwards

Enjoy an Unparalleled Digital Lifestyle

Mobile Apps

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.

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.

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.

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.

AiDownload

Use your Android device to search for torrents and easily add downloads to Download Center on your NAS. Easily monitor current downloads, establish new downloads and RSS feeds and instantly receive push notifications for completed downloads on your Android phone or tablet.

AiFoto 3

The all new AiFoto 3 has been revamped and brings a variety of new features to make photo organization easier than ever. New features for AiFoto3 include, but not are limited to timelines, smart albums. Performance enhancements, support for HEIC images and custom share links make for an even better photo viewing and sharing experience.

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.

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 1.6GHz Dual-Core	Marvell ARMADA-385 1.6GHz Dual-Core	Intel Celeron 1.6GHz Dual-Core (2.48Ghz turbo)	Intel Celeron 1.6GHz Quad-Core (2.24Ghz turbo)
Memory	512 MB DDR3 (non-upgradeable)	512 MB DDR3 (non-upgradable)	2GB DDR3L (non-upgradable)	2GB DDR3L (non-upgradable)
Drive Bays	2x 3½" SATA III	4x 3½" SATA III	2x 3½" SATA III	2x 3½" SATA III
USB	2x USB 3.1 Gen 1	2x USB 3.1 Gen 1	3x USB 3.1 Gen 1	3x USB 3.1 Gen 1
LAN	1x Gigabit	1x Gigabit	2x Gigabit	2x Gigabit
Dimensions (HxWxD)	165x102x218 mm	165x164x218 mm	165x102x218 mm	165x164x218 mm
Weight	0.99kg/2.18lb	1.5kg/3.3lb	1.17kg/2.58lb	1.6kg/3.53lb
Power	65W AC Adapter	90W AC Adapter	65W AC Adapter	90W AC Adapter
Operation	14.1W	24.6W	14.6W	26.3W
Disk Hibernation	6.9W	11.3W	8.1W	12.2W
Sleep Mode (S3)	-	-	0.89W	0.97W
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
Display Out	-	-	1x HDMI 1.4b	1x HDMI 1.4b
Infrared Receiver	-	-	Yes	Yes
Audio Output	-	-	-	-
Disk Tray Lock	No	No	No	No

Hardware Specifications

Home to Power User | Expansion Units

	AS4002T	AS4004T	Nimbustor 2 AS5202T	Nimbustor 4 AS5304T		AS6004U
Processor	Marvell ARMADA-7020 1.6GHz (Dual-Core)	Marvell ARMADA-7020 1.6GHz (Dual-Core)	Intel Celeron J4005 Dual-Core 2.0GHz (2.7GHz turbo)	Intel Celeron J4105 Quad-Core 1.5 GHz (2.5GHz turbo)	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. 8GB)	4G DDR4 SO-DIMM (Expandable. max. 8GB)	Maximum Internal Raw Capacity	48TB (4x 12TB HDD)
Drive Bays	2x 2½"/3½" SATA III	4x 2½"/3½" SATA III	2x 2½"/3½" SATA III	4x 2½"/3½" SATA III		
USB	2x USB 3.1 Gen 1	2x USB 3.1 Gen 1	3x USB 3.2 Gen 1	3x USB 3.2 Gen 1	Drive Bays	4x 2½"/3½" SATA III
LAN	2x Gigabit, 1x 10GbE	2x Gigabit, 1x 10GbE	2x 2.5 Gigabit (Wake On WAN)	2x 2.5 Gigabit (Wake On WAN)		
Dimensions (HxWxD)	170x114x230 mm	170x174x230 mm	170x114x230 mm	170x174x230 mm	Dimensions (HxWxD)	185.5x170x230 mm
Weight	1.6kg/3.53lbs	2.2kg/4.85lbs	1.6kg/3.53lbs	2.2kg/4.85lbs	Weight	2.7kg/5.95lbs
Power	65W AC Adapter	90W AC Adapter	65W AC Adapter	90W AC Adapter	Disk Tray Lock	Yes
Operation	19.5W	31.5W	17W	27W	Front Panel LED	Power, Status, Link, Alert, HDD
Disk Hibernation	12.7W	17.1W	10.5W	12.6W	Power Supply	90W AC Adapter
Sleep Mode (S3)	-	-	1.3W	1.4W	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	-	-	1x HDMI 2.0a	1x HDMI 2.0a		
Infrared Receiver	-	-	Yes	Yes		

*Must be Used in Combination with ADM 3.0 or above

Power User to Business

	AS6302T	AS6404T	Lockerstor 8 AS6508T	Lockerstor 10 AS6510T	AS6204RS/AS6204RD		AS6212RD
Processor	Intel Celeron J3355 Dual-Core 2.0GHz (2.5Ghz turbo)	Intel Celeron J3455 Quad-Core 1.5GHz (2.3Ghz turbo)	Intel ATOM C3538 2.1GHz Quad-Core	Intel ATOM C3538 2.1GHz Quad-Core	Intel Celeron 1.6GHz Quad-Core (2.24Ghz turbo)		
Memory	2GB DDR3L (Expandable. max. 8GB, 4GB x2)	8GB DDR3L (Expandable. max. 8GB, 4GB x2)	8GB SO-DIMM DDR4 (Expandable. max. 64GB, 32GB x2)	8GB SO-DIMM DDR4 (Expandable. max. 64GB, 32GB x2)	4GB SO-DIMM DDR3L (Expandable. max. 8GB, 4GB x2)		
Drive Bays	2x 2½"/3½" SATA III	4x 2½"/3½" SATA III	8x 2½"/3½" SATA III	10x 2½"/3½" SATA III	4x 2½"/3½" SATA III	12x 2½"/3½" SATA III	
M.2	-	-	2x M.2 NVMe or SATA III 2280, 2260 and 2242 supported	2x M.2 NVMe or SATA III 2280, 2260 and 2242 supported	-		
USB	3x USB 3.0 Type A (1x Front ; 2x Rear) 1x USB 3.0 Type C	3x USB 3.0 Type A (1x Front ; 2x Rear) 1x USB 3.0 Type C	2x USB 3.2 Gen 1 (1x Front ; 1x Rear)	2x USB 3.2 Gen 1 (1x Front ; 1x Rear)	4x USB 3.0		
LAN	2x Gigabit (Wake On WAN)	2x Gigabit (Wake On WAN)	2x 2.5 Gigabit (Wake On WAN) 2 x 10 Gigabit	2x 2.5 Gigabit (Wake On WAN) 2x 10 Gigabit	4x Gigabit		
Dimensions(HxWxD)	163.5x108x230 mm	185.5x170x230 mm	215.5x293x230 mm	215.5x293x230 mm	44x439x515 mm	88x439x535 mm	
Weight	2kg/4.41lb	2.9kg/6.39lb	6.2kg/13.67lb	6.4kg/14.1lb	AS6204RS: 7.65kg/16.87lb	AS6204RD: 9.2kg/20.28lb	AS6212RD: 12.7kg/27.99lb
Power	65W AC Adapter	90W AC Adapter	Internal Power Supply: 250W	Internal Power Supply: 250W	Internal Power Supply: 250W x1	Internal Power Supply: 250W x2	Internal Power Supply: 350W x2
Operation	13.8W	24W	66.9W	76.8W	35.5W	49.5W	94.6W
Disk Hibernation	7.2W	11.2W	37.2W	41.1W	21.9W	36.7W	52W
Sleep Mode (S3)	0.34W	0.44W	No Sleep Mode	No Sleep Mode	1.5W	7.7W	2.4W
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	
Display Out	1x HDMI 2.0	1x HDMI 2.0	-	-	1x HDMI 1.4b		
Infrared Receiver	Yes	Yes	-	-	-		
Audio Output	1x S/PDIF	1x S/PDIF	-	-	-		
Disk Tray Lock	-	Yes	Yes	Yes	Yes		
LCD Panel	-	Yes	Yes	Yes	-		

Dealer Seal

1553-C0ENG011-200

Hardware Specifications

	Power User to Business		Small & Medium Business		
	Lockerstor 2 New AS6602T	**Lockerstor 4** New AS6604T	**Lockerstor 10 Pro** New AS7110T	**Lockerstor 12R Pro** New AS7112RDX, 2U	**Lockerstor 16R Pro** New AS7116RDX, 3U
Processor	Intel Celeron J4125 Quad-Core 2.0GHz up to 2.7GHz	Intel Celeron J4125 Quad-Core 2.0GHz up to 2.7GHz	Intel 9th generation Quad-Core Xeon 4.6GHz Turbo	Intel 9th generation Quad-Core Xeon 4.6GHz Turbo	
Memory	4GB DDR4-2400 SO-DIMM (Expandable. max. 8GB, 4GB x2)	4GB DDR4-2400 SO-DIMM (Expandable. max. 8GB, 4GB x2)	8GB ECC DDR4-2666 SO-DIMM (Expandable. max. 64GB, 32GB x2)	8GB ECC UDIMM DDR4-2666 (Expandable. max. 128GB, 32GB x4)	
Drive Bays	2x 2½"/3½" SATA III	4x 2½"/3½" SATA III	10x 2½"/3½" SATA III	12x 2½"/3½" SATA III	16x 2½"/3½" SATA III
M.2	2x M.2 PCIe (NVMe) Support M.2 2280	2x M.2 PCIe (NVMe) Support M.2 2280	2x M.2 PCIe (NVMe) or SATA SSD Support M.2 2280, 2260 and 2242	2x M.2 PCIe (NVMe) or SATA SSD) Support M.2 22110,2280, 2260 and 2242	
USB	1x USB 3.2 Gen 1 (Front) 2x USB 3.2 Gen 1 (Rear)	1x USB 3.2 Gen 1 (Front) 2x USB 3.2 Gen 1 (Rear)	1x USB 3.2 Gen 1 (Front) 2x USB 3.2 Gen 2 (Rear)	4x USB 3.2 Gen 2 (Type A), 2x USB 3.2 Gen 2 (Type C)	
LAN	2x 2.5-Gigabit (Wake On WAN)	2x 2.5-Gigabit (Wake On WAN)	3x 2.5-Gigabit 1x 10-Gigabit	4x Gigabit	
Expansion	-	-	-	3x for optional expansion 10,25,40,50GbE card and SAS card	
Dimensions(HxWxD)	163.5x108x230 mm	185.5x170x230 mm	215.5x293x230 mm	88x439x535 mm	132x439x535 mm
Weight	2 kg/4.4 lb	2.96 kg/6.5 lb	7.1 kg/15.62 lb	13 kg/28.6 lb	15.3 kg/39.6 lb
Power	65W AC Adapter	90W AC Adapter	Internal Power Supply: 1x 350W	Internal Power Supply: 2x 550W (80 Plus Platinum)	
Operation	15.9W	27.6W	78.7W	92.4W	121.7W
Disk Hibernation	9.2W	12.6W	40.1W	45.5W	51.5W
Sleep Mode (S3)	0.66W	0.75W	5.8W	7.55W	7.55W
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	
Display Out	1x HDMI 2.0a	1x HDMI 2.0a	-	-	
Infrared Receiver	Yes	Yes	-	-	
Audio Output	-	-	-	-	
Service LED	-	-	-	Yes	
Disk Tray Lock	Yes	Yes	Yes	Yes	
LCD Panel	-	Yes	Yes	-	

Software & Features

Operating System
· ADM 3.5 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 (AS70/71 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 (AS70/71 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:
AS31/32/50/51/61/62/63/64/70/Nimbustor/Lockerstor/Lockerstor Pro series
   *M.2 SSD supported Models:
Lockerstor/Lockerstor Pro 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

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 (AS70/71 series)
· Supports Scheduled LUN Snapshot
· Target Masking
· LUN Mapping
· ISO File Mounting
· Supports MPIO
· Persistent (SCSI-3) Reservations

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

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+, exFAT*, Btrfs
· Btrfs Snapshot Supported Models: AS40/50/51/61/62/63/64/70/Nimbustor/Lockerstor/Lockerstor Pro series
· Supports Self-defined Alias Name
· Supports AES 256-bit Encryption for MyArchive Disks (EXT4 and Btrfs only)
*Need to buy an exFAT license

File System
· Internal Disk: ext4, Btrfs*
· External Disk: FAT32, NTFS, ext3, ext4, HFS+, exFAT, Btrfs*
*Btrfs is only supported on:
AS31/32/40/50/51/61/62/63/64/70/Nimbustor/Lockerstor/Lockerstor Pro series.

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:
AS63/64/Nimbustor/Lockerstor 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

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
- On-click restore
- Supports scheduled emptying
- Filtering rules (1.File size 2.File extension)
- Deletion Settings (1.File size 2.File date)

Security

- AES 256-Bit Folder Encryption
- Built-in Hardware Encryption Engine: AS10/31/32/62/63/64/70/Nimbustor/Lockerstor/Lockerstor Pro 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: AS31/32/40/50/51/61/62/63/64/70/ Nimbustor/Lockerstor/Lockerstor Pro series Snapshot Center will not display Volume snapshots information in other models.

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 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

Photo Gallery 3

- Timeline view
- Smart Album
- Supports shared folder structure with "Folders" mode
- Now able to select any shared folder on a NAS for storing photos
- Easily adjustable preview sizes and modes. Includes adjusting by day, month, and year
- Comprehensive search function: Can use keywords to search within photos, albums, and folders. It can also specify search criteria such as file type and time
- Selecting multiple photos to rotate, tag, add to favorites, and share
- Slideshow viewing mode with playing favorite songs
- Supports a wide range of image formats: RAW, PNG, JPEG, TIFF, GIF, HEIC
- Support mobile shot video playback
- View EXIF information and edit photo descriptions

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

- 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, AS62/63/64/Nimbustor Series Devices Support up to 36 Channels, AS70/Lockerstor Series Devices Support up to 64 Channels, Lockerstor Pro Series Devices Support up to 100 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: 1280x800 Pixels
  - Network Interface: Gigabit x1
  - 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