

ASUSTOR Data Master

Features of ADM 5.0

Customizable Toolbar

ADM now comes with a brand new toolbar for ADM 5.0. The toolbar can now be placed at either the top or the bottom of the page. In addition, the toolbar can be set to automatically hide when not in use on desktop platforms.

All-New ADM Defender

The all-new ADM Defender provides preset and customizable firewall profiles. Intelligent security protection can proactively prevent suspicious IP addresses from connecting to your NAS. ADM can also monitor network transmission packets to intercept suspicious network activities. The new design makes it easier to enable the firewall and additional security protections. ADM Defender proactively prevents suspicious connections, which can help further reduce the risks of malware and attacks to further improve data security.

SSH Keys Make SSH Logins More Secure

Logging into an ASUSTOR NAS using SSH means you can exercise full control over your NAS and operate more advanced functions. Enabling SSH keys can improve the security of using SSH while also making it more convenient. SSH keys replace passwords and are much more secure than passwords. Generate different keys for different administrator accounts and save the private keys in an SSH client while disable password authentication, greatly improving the security of SSH connections.

Upgraded Samba - Better Performance

ADM 5.0 brings a new version of Samba. With the new version of Samba, SMB Multichannel is no longer experimental and brings new performance enhancements, additional security and is much more stable than ever before. Combine two, three or four Ethernet ports on your ASUSTOR NAS with your computer to receive up to double, triple, or even quadruple performance respectively for maximum speed.

Fast – Secure – Stable

ADM 5.0 has been upgraded to Linux kernel 6.6 LTS. Kernel 6.6 LTS introduces numerous security patches that help make ASUSTOR NAS devices safer than ever. Kernel 6.6 also continues to enhance ADM performance and stability, while also adds compatibility with even more hardware for maximum flexibility.

Edit Plain Text Files

Install the new Text Editor from App Central to add or edit various plain text files on ADM 5.0. There is no need to download or create text files on a computer or phone for editing when your NAS is able to do it.

Surveillance Center

Instant Notifications

Surveillance Center supports push notifications, emails and SMS messages to individual cameras and events.

Centralized Surveillance Software - CMS Lite

CMS Lite allows surveillance professionals to have more flexibility and convenience when monitoring and playing back video. Manage up to 256 IP cameras and ASUSTOR NVRs in up to 32 different locations.

Multi-Stream

Surveillance Center supports 3 independent video streaming modes, allowing administrators to configure default resolutions for recordings and viewing feeds remotely. Select resolutions based on network bandwidth and the number of channels that they are viewing, optimizing video streaming under different network bandwidth limitations.

Smart Passive & Active Recording Modes

Surveillance Center provides a variety of passive and active recording modes, regardless of whether you require scheduled recording for a specific time period or simply record once an event has occurred.



Automated Event Action Rules

Automated event action rules allow administrators to customize alarm handling rules. When an event occurs, your NAS can select different measures to handle a situation based on the type of event or the time the event occurred.



Business

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

- Internal backups + MyArchive = Offsite data protection + Unlimited storage capacity expansion
- Use FTP, SMB, Rsync for two-way backup and secure data transfers
- Use DataSync Center for two-way backup to another ASUSTOR NAS through EZ Sync
- Backup and restore phone data with AiData and AiFoto 3
- Back up to cloud services easily with Cloud Backup Center or DataSync Center. Supports Amazon S3, Azure, Google Drive, Google Cloud Storage, HiDrive, Dropbox, OneDrive, hicloud and more
- USB One Touch backups or back up to the ASUSTOR Xpianstor 4 (AS5004U)

Virtualization Ready

Complete iSCSI/IP-SAN and NFS support. VMware, Citrix and Hyper-V ready.

Ransomware recovery - Snapshot Center

ASUSTOR NAS devices support snapshots on Btrfs volumes and iSCSI volumes, ensuring that if ransomware attacks, changes are reversible.

Evolved Network Defender

- Block brute-force attacks with the automatic blacklist
- Trust List can prevent trusted IP addresses from being automatically blocked in the event of too many inadvertent login failures
- The blacklist and whitelist can be defined by specific IPs, IP ranges, and geolocation

Seamless integration with AD, ACL and LDAP

LDAP and Windows AD support combined with ACL allows IT professionals to use the permissions and security settings in Windows to quickly configure shared folder access rights for users and groups on an ASUSTOR NAS. 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.

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

Lifestyle Applications

*Limited to some models



The Dynamic ASUSTOR Portal*



Ultimate Audio Enjoyment with SoundsGood



ASUSTOR Live



Photo Gallery 3 Brings Smart Photo Management



Your Dedicated Cinema: LooksGood



WOW (Wake on WAN), Always on Standby*

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.

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.

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 browser.

AiMusic

AiMusic makes streaming music from your NAS to your phone or tablet easy. 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.

AiData

AiData brings access to your NAS's files to your smartphone or tablet. AiData helps you browse and manage files on your NAS directly from your phone or tablet. AiData also supports file sharing, making it easy to share files right from your smartphone and tablet, bringing your data to your fingertips.

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, timelines, smart albums, deduplication and free up space. 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.

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.

Hardware Specifications

Personal to Home

| |  DRIVESTOR 2 Lite AS1102TL |  DRIVESTOR 4 AS1104T |  DRIVESTOR 2 Pro Gen2 AS3302T v2 |  DRIVESTOR 4 Pro Gen2 AS3304T v2 |
|-------------------|---|---|--|---|
| Processor | Realtek RTD1619B 1.7 GHz Quad-Core Processor | Realtek RTD1296 1.4 GHz Quad-Core Processor | Realtek RTD1619B 1.7 GHz Quad-Core Processor | Realtek RTD1619B 1.7 GHz Quad-Core Processor |
| Memory | 1GB DDR4 (non-upgradeable) | 1GB DDR4 (non-upgradeable) | 2GB DDR4 (non-upgradeable) | 2GB DDR4 (non-upgradeable) |
| Drive Bays | 2x 3½" SATA III | 4x 3½" SATA III | 2x 2½"/3½" SATA III | 4x 2½"/3½" SATA III |
| M.2 Slots | - | - | - | - |
| USB | 1 x USB 3.2 Gen1x1; 1 x USB 2.0 | 2x USB 3.2 Gen 1 | 3x USB 3.2 Gen 1 | 3x USB 3.2 Gen 1 |
| LAN | 1 x Gigabit Ethernet | 1x 2.5-Gigabit (Wake On WAN) | 1x 2.5-Gigabit (Wake On WAN) | 1x 2.5-Gigabit (Wake On WAN) |
| Expansion | - | - | - | - |
| Dimensions(HxWxD) | 165x102x218 mm | 165x164x218 mm | 170x114x230 mm | 170x174x230 mm |
| Weight | 1.14kg/2.5lb | 1.57kg/3.45lb | 1.6kg/3.53lb | 2.2kg/4.85lb |
| Power | 65W AC Adapter | 90W AC Adapter | 65W AC Adapter | 90W AC Adapter |
| Operation | 11.7W | 22.8W | 13.1W | 25.1W |
| Disk Hibernation | 3.1W | 9.41W | 4.5W | 8.4W |
| Sleep Mode (S3) | No Sleep Mode | No Sleep Mode | No Sleep Mode | No Sleep Mode |
| 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 | - | - | - | - |
| Infrared Receiver | - | - | - | - |
| Service LED | - | - | - | - |
| Disk Tray Lock | - | - | - | - |
| LCD Panel | - | - | - | - |
| Audio Output | - | - | - | - |

Hardware Specifications

| | Home to Power User | | Power User to Business | |
|-------------------|---|---|--|--|
| |  NIMBUSTOR 2 Gen 2 AS5402T |  NIMBUSTOR 4 Gen 2 AS5404T |  FLASHSTOR 6 FS6706T |  FLASHSTOR 12 Pro FS6712X |
| Processor | Intel Celeron N5105 Quad-Core, 2.0 GHz up to 2.9 GHz | Intel Celeron N5105 Quad-Core, 2.0 GHz up to 2.9 GHz | Intel Celeron N5105 Quad-Core, 2.0 GHz up to 2.9 GHz | Intel Celeron N5105 Quad-Core, 2.0 GHz up to 2.9 GHz |
| Memory | 4GB DDR4-2933 SO-DIMM (Expandable. max. 16GB, 8GB x2) | 4GB DDR4-2933 SO-DIMM (Expandable. max. 16GB, 8GB x2) | 4GB DDR4-2933 SO-DIMM (Expandable. max. 16GB, 8GB x2) | 4GB DDR4-2933 SO-DIMM (Expandable. max. 16GB, 8GB x2) |
| Drive Bays | 2x 2½"/3½" SATA III | 4x 2½"/3½" SATA III | - | - |
| M.2 Slots | 4x M.2 PCIe (NVMe) Support M.2 2280 | 4x M.2 PCIe (NVMe) Support M.2 2280 | 6x M.2 PCIe (NVMe) Support M.2 2280 | 12x M.2 PCIe (NVMe) Support M.2 2280 |
| USB | 3x USB 3.2 Gen2 (1x Front ; 2x Rear) | 3x USB 3.2 Gen2 (1x Front ; 2x Rear) | 2x USB 3.2 Gen2 (1x Front ; 1x Rear) 2x USB 2.0 | 2x USB 3.2 Gen2 (1x Front ; 1x Rear) 2x USB 2.0 |
| LAN | 2x 2.5-Gigabit (Wake On WAN) | 2x 2.5-Gigabit (Wake On WAN) | 2x 2.5-Gigabit (Wake On WAN) | 1x 10-Gigabit (Wake On LAN) |
| Expansion | - | - | - | - |
| Dimensions(HxWxD) | 170x114x230 mm | 170x174x230 mm | 48.3x308.26x193 mm | 48.3x308.26x193 mm |
| Weight | 1.71kg/3.77lb | 2.26kg/4.98lb | 1.35 kg/2.98 lb | 1.37 kg/3 lb |
| Power | 65W AC Adapter | 90W AC Adapter | 65W AC Adapter | 90W AC Adapter |
| Operation | 22.9W | 38.3W | 18.2 W | 26 W |
| Disk Hibernation | 12.7W | 17.7W | - | - |
| Sleep Mode (S3) | 0.71W | 0.81W | 0.83 W | - |
| Volume Type | Single, JBOD, RAID 0/1 | Single, JBOD, RAID 0/1/5/6/10, RAID 1/5 + Spare Drive | Single, JBOD, RAID 0/1/5/6/10, RAID 1/5 + Spare Drive | Single, JBOD, RAID 0/1/5/6/10, RAID 1/5 + Spare Drive |
| Display Out | 1x HDMI 2.0b | 1x HDMI 2.0b | 1x HDMI 2.0b | 1x HDMI 2.0b |
| Infrared Receiver | Yes | Yes | Yes | Yes |
| Service LED | - | - | - | - |
| Disk Tray Lock | - | - | - | - |
| LCD Panel | - | - | - | - |
| Audio Output | - | - | 1x S/PDIF | 1x S/PDIF |

| | Power User to Business | | |
|-------------------|---|---|---|
| |  LOCKERSTOR 2 Gen2 AS6702T |  LOCKERSTOR 4 Gen2 AS6704T |  LOCKERSTOR 6 Gen2 AS6706T |
| Processor | Intel Celeron N5105 Quad-Core, 2.0GHz up to 2.9GHz | Intel Celeron N5105 Quad-Core, 2.0GHz up to 2.9GHz | Intel Celeron N5105 Quad-Core, 2.0GHz up to 2.9GHz |
| Memory | 4GB DDR4-2933 SO-DIMM (Expandable. max. 16GB, 8GB x2) | 4GB DDR4-2933 SO-DIMM (Expandable. max. 16GB, 8GB x2) | 8GB DDR4-2933 SO-DIMM (Expandable. max. 16GB, 8GB x2) |
| Drive Bays | 2x 2½"/3½" SATA III | 4x 2½"/3½" SATA III | 6x 2½"/3½" SATA III |
| M.2 Slots | 4x M.2 PCIe (NVMe) Support M.2 2280 | 4x M.2 PCIe (NVMe) Support M.2 2280 | 4x M.2 PCIe (NVMe) Support M.2 2280 |
| USB | 2x USB 3.2 Gen2 (1x Front ; 1x Rear) | 2x USB 3.2 Gen2 (1x Front ; 1x Rear) | 2x USB 3.2 Gen2 (1x Front ; 1x Rear) |
| LAN | 2x 2.5-Gigabit (Wake On WAN) | 2x 2.5-Gigabit (Wake On WAN) | 2x 2.5-Gigabit (Wake On WAN) |
| Expansion | - | 1x for optional expansion 10 GbE card* | 1x for optional expansion 10 GbE card* |
| Dimensions(HxWxD) | 163.5x108x230 mm | 185.5x170x230 mm | 185.5x233x230 mm |
| Weight | 2 kg/4.41 lb | 2.94 kg/6.48 lb | 4.4 kg/9.7 lb |
| Power | 65W AC Adapter | 90W AC Adapter | 250W |
| Operation | 21W | 35W | 48.5W |
| Disk Hibernation | 13.5W | 17.3W | 27.7W |
| Sleep Mode (S3) | 0.79W | 0.88W | 0.81W |
| Volume Type | Single, JBOD, RAID 0/1 | Single, JBOD, RAID 0/1/5/6/10, RAID 1/5 + Spare Drive | Single, JBOD, RAID 0/1/5/6/10, RAID 1/5 + Spare Drive |
| Display Out | 1x HDMI 2.0b | 1x HDMI 2.0b | 1x HDMI 2.0b |
| Infrared Receiver | Yes | Yes | Yes |
| Service LED | - | - | - |
| Disk Tray Lock | Yes | Yes | Yes |
| LCD Panel | - | Yes | Yes |
| Audio Output | - | - | - |

*Installation of 10GbE NIC requires removal of M.2 daughterboard

Power User to Business

New



FLASHSTOR 6 Gen2
FS6806X

New



FLASHSTOR 12 Pro Gen2
FS6812X

| | | |
|-------------------|---|---|
| Processor | AMD Ryzen V3C14 Quad-Core, 2.3 GHz up to 3.8 GHz | AMD Ryzen V3C14 Quad-Core, 2.3 GHz up to 3.8 GHz |
| Memory | 8GB DDR5-4800 SO-DIMM (Expandable. max. 64GB, ECC supported) | 16GB ECC DDR5-4800 SO-DIMM (Expandable. max. 64GB) |
| Drive Bays | - | - |
| M.2 Slots | 6x M.2 PCIe (NVMe) Support M.2 2280 Supports PCIe 4.0 | 12x M.2 PCIe (NVMe) Support M.2 2280 Supports PCIe 4.0 and 3.0 |
| USB | 3x USB 3.2 Gen 2 (2x Front; 1x Rear) 2 x USB 4.0 Type-C (2x Rear) | 3x USB 3.2 Gen 2 (2x Front; 1x Rear) 2 x USB 4.0 Type-C (2x Rear) |
| LAN | 1x 10-Gigabit | 2x 10-Gigabit |
| Expansion | - | - |
| Dimensions(HxWxD) | 48.3x308.26x193 mm | 48.3x308.26x193 mm |
| Weight | 1.4 kg / 3.08 lb | 1.45 kg / 3.19 lb |
| Power | 90W AC Adapter | 120W AC Adapter |
| Operation | 17.9W | 33.2W |
| Disk Hibernation | - | - |
| Sleep Mode (S3) | 1.2W | 2.8W |
| Volume Type | Single, JBOD, RAID 0/1/5/6/10, RAID 1/5/6/10 + Spare Drive | Single, JBOD, RAID 0/1/5/6/10, RAID 1/5/6/10 + Spare Drive |
| Display Out | - | - |
| Infrared Receiver | - | - |
| Service LED | - | - |
| Disk Tray Lock | - | - |
| LCD Panel | - | - |
| Audio Output | - | - |

Power User to Business

New



LOCKERSTOR 4 Gen3
AS6804T

New



LOCKERSTOR 6 Gen3
AS6806T

New



LOCKERSTOR 8 Gen3
AS6808T

New



LOCKERSTOR 10 Gen3
AS6810T

| | | | | |
|-------------------|--|--|--|--|
| Processor | AMD Ryzen V3C14 Quad-Core, 2.3 GHz up to 3.8 GHz | AMD Ryzen V3C14 Quad-Core, 2.3 GHz up to 3.8 GHz | AMD Ryzen V3C14 Quad-Core, 2.3 GHz up to 3.8 GHz | AMD Ryzen V3C14 Quad-Core, 2.3 GHz up to 3.8 GHz |
| Memory | 16GB ECC DDR5-4800 SO-DIMM (Expandable. max. 64GB, 32GB x2) | 16GB ECC DDR5-4800 SO-DIMM (Expandable. max. 64GB, 32GB x2) | 16GB ECC DDR5-4800 SO-DIMM (Expandable. max. 64GB, 32GB x2) | 16GB ECC DDR5-4800 SO-DIMM (Expandable. max. 64GB, 32GB x2) |
| Drive Bays | 4x 2½"/3½" SATA III | 6x 2.5"/3.5" SATA III | 8x 2.5"/3.5" SATA III | 10x 2.5"/3.5" SATA III |
| M.2 Slots | 4x M.2 PCIe (NVMe) Support M.2 2280 |
| USB | 3x USB 3.2 Gen 2 (2x Front; 1x Rear); 2 x USB 4.0 Type-C (2x Rear) | 3x USB 3.2 Gen 2 (2x Front; 1x Rear); 2 x USB 4.0 Type-C (2x Rear) | 3x USB 3.2 Gen 2 (2x Front; 1x Rear); 2 x USB 4.0 Type-C (2x Rear) | 3x USB 3.2 Gen 2 (2x Front; 1x Rear); 2 x USB 4.0 Type-C (2x Rear) |
| LAN | 2x 5-Gigabit (Wake On LAN/WAN); 2x 10-Gigabit | 2x 5-Gigabit (Wake On LAN/WAN); 2x 10-Gigabit | 2x 2.5 Gigabit (Wake On WAN); 2x 10 Gigabit | 2x 2.5 Gigabit (Wake On WAN); 2x 10 Gigabit |
| Expansion | 1x for optional expansion 10 GbE card* |
| Dimensions(HxWxD) | 185.5x170x230 mm | 185.5x233x230 mm | 215.5x293x230 mm | 215.5x293x230 mm |
| Weight | 2.94 kg / 6.48 lb | 4.4 kg / 9.7 lb | 6.2kg/13.67lb | 6.4kg/14.1lb |
| Power | 90W AC Adapter | 250W | 250W | 250W |
| Operation | 34W | 45W | 58.5W | 68W |
| Disk Hibernation | 18W | 20W | 25W | 26W |
| Sleep Mode (S3) | 2.3W | 2.3W | 2.4W | 2.4W |
| Volume Type | Single, JBOD, RAID 0/1/5/6/10, RAID 1/5/6/10 + Spare Drive | Single, JBOD, RAID 0/1/5/6/10, RAID 1/5/6/10 + Spare Drive | Single, JBOD, RAID 0/1/5/6/10, RAID 1/5/6/10 + Spare Drive | Single, JBOD, RAID 0/1/5/6/10, RAID 1/5/6/10 + Spare Drive |
| Display Out | - | - | - | - |
| Infrared Receiver | - | - | - | - |
| Service LED | - | - | - | - |
| Disk Tray Lock | Yes | Yes | Yes | Yes |
| LCD Panel | Yes | Yes | Yes | Yes |
| Audio Output | - | - | - | - |

*Installation of 10GbE NIC requires removal of M.2 daughterboard / **TBP (To be provided)



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Dealer Seal

1553-C0ENG011-240

| Power User to Business | | | | Expansion Units | |
|------------------------|--|--|---|--|--|
| |  |  |  |  | |
| | LOCKERSTOR 8 AS6508T | LOCKERSTOR 10 AS6510T | LOCKERSTOR 10 Pro AS7110T | AS5004U | |
| Processor | Intel ATOM C3538 2.1GHz Quad-Core | Intel ATOM C3538 2.1GHz Quad-Core | Intel 9 th generation Quad-Core Xeon 4.6GHz Turbo | Flash Memory | 32MB |
| Memory | 8GB SO-DIMM DDR4 (Expandable. max. 64GB, 32GB x2) | 8GB SO-DIMM DDR4 (Expandable. max. 64GB, 32GB x2) | 8GB ECC DDR4-2666 SO-DIMM (Expandable. max. 64GB, 32GB x2) | Expansion | USB 3.2 Gen 2 Type C |
| Drive Bays | 8x 2½"/3½" SATA III | 10x 2½"/3½" SATA III | 10x 2½"/3½" SATA III | HDD | 4 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD |
| M.2 Slots | 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 2280, 2260 and 2242 | 2x M.2 PCIe (NVMe) or SATA SSD Support M.2 2280, 2260 and 2242 | Maximum Internal Raw Capacity | 88 TB (22 TB HDD x4, Capacity may vary by RAID types) |
| USB | 2x USB 3.2 Gen 1 (1x Front; 1x Rear) | 2x USB 3.2 Gen 1 (1x Front; 1x Rear) | 1x USB 3.2 Gen 1 (Front); 2x USB 3.2 Gen 2 (Rear) | Supports Hot Swappable Drives | Yes |
| LAN | 2x 2.5 Gigabit (Wake On WAN), 2x 10 Gigabit | 2x 2.5 Gigabit (Wake On WAN), 2x 10 Gigabit | 3x 2.5-Gigabit, 1x 10-Gigabit | System Fan | 120mm x1 |
| Expansion | - | - | - | Power Supply Unit/Adapter | 90W x1 |
| Dimensions(HxWxD) | 215.5x293x230 mm | 215.5x293x230 mm | 215.5x293x230 mm | Input Power Voltage | 100V to 240V AC |
| Weight | 6.2kg/13.67lb | 6.4kg/14.1lb | 7.1 kg/15.62 lb | Certification | FCC, CE, VCCI, BSMI, C-TICK |
| Power | 250W | 250W | 350W | | |
| Operation | 66.9W | 76.8W | 78.7W | | |
| Disk Hibernation | 37.2W | 41.1W | 40.1W | | |
| Sleep Mode (S3) | No Sleep Mode | No Sleep Mode | Yes | | |
| Volume Type | Single, JBOD, RAID 0/1/5/6/10, RAID 1/5/6/10 + Spare Drive | Single, JBOD, RAID 0/1/5/6/10, RAID 1/5/6/10 + Spare Drive | Single, JBOD, RAID 0/1/5/6/10, RAID 0/1/5/6/10 + Spare Drive | | |
| Display Out | - | - | - | | |
| Infrared Receiver | - | - | - | | |
| Service LED | - | - | - | | |
| Disk Tray Lock | Yes | Yes | Yes | | |
| LCD Panel | Yes | Yes | Yes | | |
| Audio Output | - | - | - | | |

| Small & Medium Business | | | | Expansion Units | |
|-------------------------|---|---|--|---|---|
| |  |  |  |  | |
| | LOCKERSTOR 4RS/4RD AS6504RS/AS6504RD | LOCKERSTOR 12RD AS6512RD | LOCKERSTOR 12R Pro AS7112RDX, 2U | XPANSTOR 12R AX7012R | |
| Processor | Intel ATOM C3538 2.1GHz Quad-Core | Intel ATOM C3538 2.1GHz Quad-Core | Intel 9 th generation Quad-Core Xeon 4.6GHz Turbo | Flash Memory | 2MB SRAM |
| Memory | 8GB SO-DIMM DDR4 (Expandable. max. 128GB, 32GB x4) | 8GB SO-DIMM DDR4 (Expandable. max. 128GB, 32GB x4) | 8GB ECC UDIMM DDR4-2666 (Expandable. max. 128GB, 32GB x4) | Expansion Port | SAS IN-port : 2 SAS Out-port: 2 |
| Drive Bays | 4x 2½"/3½" SATA III | 12x 2½"/3½" SATA III | 12x 2½"/3½" SATA III | Compatible Drive Type | 3.5" SAS 2 HDD; 3.5" SAS 3 HDD; 3.5" SATA 3 HDD |
| M.2 Slots | - | - | 2x M.2 PCIe (NVMe) or SATA SSD Support M.2 22110, 2280, 2260 and 2242 | Drive Bays | 12 |
| USB | 4x USB 3.2 Gen 1 | 4x USB 3.2 Gen 1 | 4x USB 3.2 Gen 2 (Type A), 2x USB 3.2 Gen 2 (Type C) | Supports Hot Swappable Drives | Yes |
| LAN | 2x 2.5 Gigabit (Wake On WAN) 2x 1 Gigabit | 2x 2.5 Gigabit (Wake On WAN) 2x 1 Gigabit | 4x Gigabit | System Fan | 3x 80x38mm hot-swap cooling fans |
| Expansion | 1x for optional expansion 10 GbE card | 1x for optional expansion 10 GbE card | 3x for optional expansion 10,25,40,50GbE card and SAS card | Power Supply Unit / Adapter | 650W x2 |
| Dimensions(HxWxD) | 44x439x515 mm | 88x439x535 mm | 88x439x535 mm | Input Power Voltage | 100V to 240V AC |
| Weight | 4RS: 7.85kg/17.27lb, 4RD: 9.3kg/20.46lb | 11.7kg/25.74lb | 13 kg/28.6 lb | Certification | FCC, CE, UKCA, VCCI, BSMI, C-Tick |
| Power | 4RS : 250W x1, 4RD : 250W x2 | 350W x2 (80 Plus Gold) | 550W x2 (80 Plus Platinum) | | |
| Operation | 4RS: 47.7W, 4RD: 65W | 115W | 92.4W | | |
| Disk Hibernation | 4RS: 28.4W, 4RD: 42.4W | 67W | 45.5W | | |
| Sleep Mode (S3) | No Sleep Mode | No Sleep Mode | 7.55W | | |
| Volume Type | Single, JBOD, RAID 0/1/5/6/10, RAID 1/5 + Spare Drive | Single, JBOD, RAID 0/1/5/6/10, RAID 1/5/6/10 + Spare Drive | Single, JBOD, RAID 0/1/5/6/10, RAID 1/5/6/10 + Spare Drive | | |
| Display Out | - | - | - | | |
| Infrared Receiver | - | - | - | | |
| Service LED | Yes | Yes | Yes | | |
| Disk Tray Lock | Yes | Yes | Yes | | |
| LCD Panel | - | - | - | | |
| Audio Output | - | - | - | | |

Software & Features

Operating System

- ADM 5.0 Onwards
- Supports Online Firmware Updates

Supported OS

- Windows 10, 11, Server 2016, 2019, 2022
- macOS 10.13 Onwards
- UNIX, Linux, BSD

Supported Browsers

- Firefox · Chrome · Safari · Microsoft Edge

Access Control

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

ACL

- Provides both Windows ACL and Linux ACL permission configuration methods
- Can enable Windows ACL for specific shared folders
- Comprehensive support for Windows' 13 types of advanced permission settings
- Can view Windows ACL permission settings 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
- Supported Models: AS63/64/Nimbustor/Lockerstor/Lockerstor Pro series

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 · SMB Backup
- Cloud Backup · FTP Backup
- External Backup · One Touch Backup
- Internal Backup · EZ Sync
- Apple®Time Machine® backup application
- ASUSTOR Backup Plan (Windows)

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: 256
- Maximum Snapshot Versions of a Single LUN: 256
- Maximum LUNs: 256/512 (Lockerstor 10 Pro 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
- Requires at least one free drive bay
- Supported File System Formats: EXT4, NTFS, HFS+, exFAT, Btrfs
- Supports Self-defined Alias Name
- Supports AES 256-bit Encryption for MyArchive Disks (EXT4 and Btrfs only)
- Scheduled backup

File System

- Internal Disk: ext4, Btrfs*
- External Disk: FAT32, NTFS, ext3, ext4, HFS+, exFAT, Btrfs*
*Btrfs is only supported on: AS1102TL/ Drivestor Pro Gen2/AS63/64/Nimbustor/Lockerstor(G1-G3)/Lockerstor Pro/Flashstor series

DHCP Server

- Supports multiple IP subnet assignments
- Supports Lease Time, DHCP Reservation

Network

- TCP/IP (IPv4 & IPv6) · Jumbo Frames (MTU)
- VLAN · SMB Multichannel
- EZ-Connect · Wireless Network
- DDNS and EZ-Router · Supports Wake-on-LAN (WOL)
- Supports Wake-on-WAN: AS11/33/52/53/54/63/64/65/66/67/68, FS6706T
*Drivestor 2 Lite doesn't support Wake-on-WAN

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 Drives
- Volume Type: Single, JBOD, RAID 0, RAID 1, RAID 5, RAID 6, RAID 10
- Support for RAID Level Migration
- Support for RAID Capacity Expansion

Supported Languages

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

System Administration

- Support scheduled upgrade ADM & AppLog Type: System Log, Connection Log, File Access Log
- Real-time Online User Monitoring
- Real-time System Monitoring
- User Quotas
- Virtual Drives (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 (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: AS63/64/Nimbustor/Lockerstor(G1-G3)/Lockerstor Pro/Flashstor series
- Firewall: Helps Prevent Unauthorized Access
- Encrypted Connections: HTTPS, FTP over SSL/TLS, SSH, SFTP, Rsync over SSH
- Alert Notifications: E-mail, SMS, Pushbullet, Pushover, AiMaster
- Supports Let's Encrypt
- Supports Intermediate Certificate
- WORM (Write Once, Read Many)

Dr. ASUSTOR

- Security advice and health records

Snapshot Center

- Btrfs snapshots
- Max: 256 snapshots
- Integrated with existing iSCSI LUNs snapshots

Web Center

- Install Apache or Nginx or almost any other web server implementation

Featured Apps

Antivirus (ClamAV)

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

ASUSTOR Portal (HDMI Local Output)¹

- Power Control Settings: Power on, Sleep, Restart and Wake with Remote
- Customizable ASUSTOR Portal Desktop Wallpaper
- Add Shortcuts to Favorite Websites
- Max resolution: 1080p (HD)/2160p (4K)²
- 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
- Customizable Download Schedule
- Bandwidth Control
- RSS Subscription and Automatic Downloading (Broadcatching)

DataSync Center

- Support Google Drive, Dropbox, Microsoft OneDrive, Yandex, ASUSTOR NAS (EZ Sync), Baidu Wangpan
- 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

LooksGood

- Built-in three main video library categories and smart video sorting management
- System administrator can configure video library and editing permissions according to user
- Multimedia conversion function
- Self-defined smart folder for video conversions
- Easy streaming with Chromecast and DLNA

Photo Gallery 3

- Timeline view
- Easily adjustable preview sizes and modes. Includes adjusting by day, month, and year
- Selecting multiple photos to rotate, tag, add to favorites, share and edit photos/videos time and date
- Slideshow viewing mode with playing favorite songs
- Supports a wide range of image formats: JPG/JPEG, GIF, PNG, BMP, TIFF, RAW, HEIC
- View EXIF information and edit photo descriptions
- Easy management of duplicate photos/videos

Cloud Backup Center

- Support Amazon S3, Backblaze B2, Box, Microsoft Azure Blob Storage, Alibaba Cloud, Baidu Cloud, IBM Cloud and Rackspace Cloud Files, WebDAV, SFTP, Google Cloud, hicloud, Lyve Cloud
- Immediate or scheduled backup
- Perform multiple backup tasks and back up multiple accounts

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
- Supported Browsers: Microsoft Edge, Firefox, Chrome
- Event notification supports SMS, E-mail, and mobile push notification
- Role-based access control
- RTSP streaming server (video and audio)
- AiSecure with Push notification
- ONVIF Profile S, T supported
- CMS Lite supports connect up to 256 IP Cameras from 32 NAS
- Two different camera license packages are offered: single channel and 4 channels
- Maximum IP Cam (4 Free Camera Licenses; Additional Licenses to be Purchased)

SoundsGood

- Import Personal/Public Music Collection
- Personal/Public Music Collection Permission Control
- Playlist Editor · ID3 Tag Editor
- Local Speaker Support: HDMI, USB
- Local Network Audio Output Support: AirPlay Devices

UPnP Media Server

- Offers 2 Different Server Choices: UPnP v2, MiniDLNA
- Supports PS3/Xbox and Other UPnP Compatible Players
*The supported formats may differ depending on the UPnP client in use

VPN Client

- Supports PPTP, OpenVPN and WireGuard VPN settings
- View Current Connections & Ability to Disconnect Suspicious Connections

VPN Server

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

ASUSTOR Live

- Multistreaming Including, but not limited to YouTube, Twitch, Facebook, Instagram, Restream or RTMP compatible platforms
- Streaming video save and use

Portainer and Docker

- Easy Docker Deployments

Note:

1. ASUSTOR recommends that ASUSTOR Portal be used with a TV with a resolution of 720p or higher.
2. Currently, AS63/64/Nimbustor/Nimbustor Gen2/Lockerstor 2&4/Lockerstor Gen2/Flashstor series devices are able to provide 4K Output at 60Hz.