

asustor

FLASHSTOR I2 PRO GEN2







FS6812X

Speeds keep Risin' and Ryzen

Ryzen Embedded CPU - PCI Express 4.0 -
Dual 10GbE - USB4



- AMD Quad-Core Ryzen Embedded V3C14 @ 2.3 GHz base - 3.8 GHz turbo
- 16 GB ECC DDR5-4800 – 64 GB maximum
- 12x M.2 slots for NVMe SSDs
- Dual 10GbE
- 2x USB4 (Type-C)
- 3x USB 3.2 Gen 2x1 (Type-A)
- Suitable for 4K editing, enthusiasts, and content creation

 AMD Ryzen Quad-Core	 16 GB ECC DDR5-4800	 12x M.2 NVMe SSD Slots
 Dual 10 Gigabit Ethernet	 2x USB4 Type-C	 3 x USB 3.2 Gen2



Performance
King



Boundless
Functionality



Intuitive
UI



Incredible
Value



Warranty
Service

SMB Multichannel (RAID 5)

2159 MB/s

Read

1095 MB/s

Write

Ryzen + Flash = Fast

The AMD Ryzen™ Embedded V3C14 processor integrates high-performance Zen 3 cores into a cool and quiet CPU. The exceptional processing efficiency and high-speed I/O connectivity of the Ryzen Embedded CPU ensures efficient operation, enabling fast data transfer and high-speed computing while sipping minimal power.

Quad-Core 2.3 GHz

Turbo to 3.8 GHz

Breaking the 10 Gbps Barrier

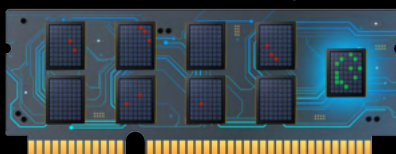
The Flashstor 12 Pro Gen2 series features 10-Gigabit Ethernet, allowing for high speed transfers when paired with a 10GbE-enabled device and a compatible router or switch.



ECC RAM

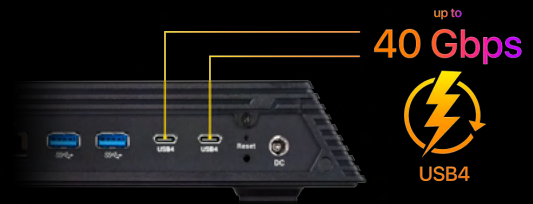
ECC (Error-Correcting Code) can detect and correct memory errors, enhancing system stability and reliability. It reduces the risk of data errors, ensuring data integrity in enterprise environments. For businesses that require high reliability, consider upgrading your Flashstor Pro Gen2 to the maximum of 64 GB of memory for enterprise servers and workstations.

ECC memory



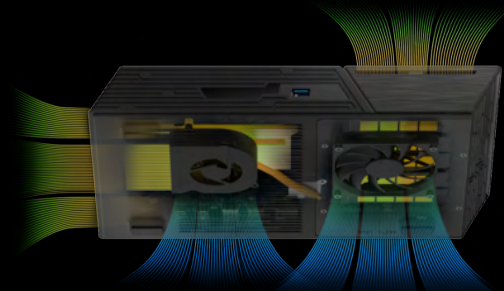
USB4 – Unmatched Flexibility

The Flashstor Gen2 is equipped with two high-speed USB4 ports, offering ultra-fast speeds of up to 40 Gbps. The USB4 ports are compatible with Thunderbolt 3/4 devices, allowing you to transfer, store, archive, and back up faster than ever. When connecting two ASUSTOR NAS units using the USB4 ports, fast data transfers, synchronizations, and backups can be achieved without using the network ports. Paired with features like DataSync Center and SMB Backup, this can help significantly reduce back up time.



Keeping Cool

The Flashstor Gen2 series now incorporate an improved thermal dissipation design that includes strategically placed fans that are efficient and silent to cool every high performance component in the Flashstor Gen2 series. This optimized cooling efficiency ensures sustained high performance while maintaining low noise levels.



Hard Drives Welcome!

The all-SSD Flashstor continues ADM's amazing support for hard drives when connecting an AS5004U expansion unit to the USB 3 ports on your NAS. When raw capacity is needed, the Flashstor enables the best of both worlds.



Protected from the Inside and Out

ASUSTOR NAS ensures data security by creating an in-depth data protection plan that protects your data from the inside out. Utilization of a multi-layered deployment scheme allows for extra system and data protection.

Network Attack Protection

- Firewall
- ADM Defender
- Risk detection greylist

Access Control

- File/Folder/App Isolation
- 2-Step Verification

Secured Data Transmission

- VPN connection
- SSL certificate connection
- Automatic logout

Internal Data

- AES-256 folder encryption
- Antivirus software
- WORM (Write Once, Read Many)



Automatic Sync

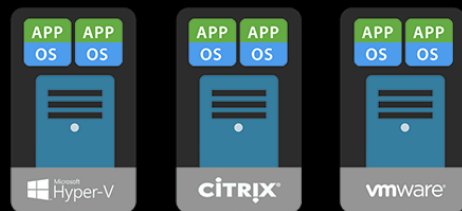
ASUSTOR EZ Sync brings the magic of cloud sync services right to your home. With an ASUSTOR NAS and EZ Sync, data can be synchronized anywhere with an internet connection without a monthly bill or a data limit. If data is unintentionally modified, restoration is easy with EZ Sync's automatic file history management feature.



Integrate with a Variety of Enterprise Applications

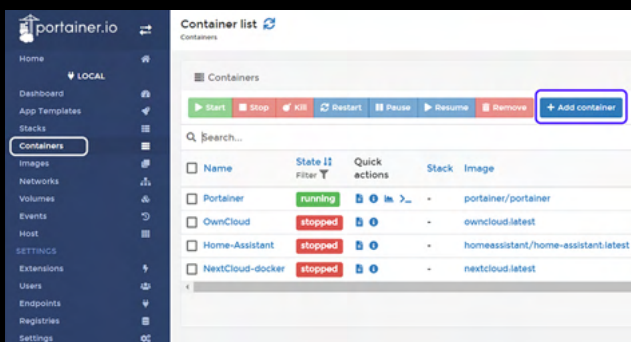
Virtual Storage

The ASUSTOR NAS provides enterprise-class hardware and software and is compatible with VMware, Citrix, Hyper-V virtual storage environments. iSCSI/IP-SAN and NFS support allow it to seamlessly integrate with existing IT environments, providing an optimal and cost-effective storage solution.



Portainer – Easy Docker Deployments

Even more possibilities for ADM can be done with Portainer for Docker images. With thousands of images, Portainer can download and deploy more types of programs than ever before. Portainer is incredibly user friendly and employs a graphical interface to make Docker images easier to deploy than ever.



Snapshot Center

Snapshot Center allows ASUSTOR NAS devices to utilize Btrfs and iSCSI volumes to take snapshots of the information inside a NAS. Snapshot Center supports up to 256 snapshots of a volume and can be done every five minutes, creating a backup that can be restored easily if data is damaged or lost. MyArchive also now supports Btrfs and snapshots. Btrfs for MyArchive supports snapshots and version history to help protect against accidental deletions or modifications.



Created for the Digital Home

Your ASUSTOR NAS allows you to enjoy thrilling digital entertainment at any time. Pair the HDMI port on your ASUSTOR on the NAS with various multimedia apps to an UHD TV for maximum enjoyment or similarly use the UPnP multimedia server inside your NAS to stream your favorite media to compatible computers, phones, tablets or set top boxes.



Comprehensive Surveillance System

ASUSTOR NAS provides optimal reliability for home and small businesses looking to set up a surveillance system. Four free camera channels are provided, making it an extremely cost-effective surveillance solution for users with smaller demands. The AS68 supports up to 72 cameras with licenses sold separately. View surveillance feeds on Surveillance Center and its corresponding mobile app AiSecure. AiSecure also supports streams while on the go with an Internet connection.

5 Steps - 60 Seconds

- Quick installation wizard
- Automatic camera search
- Add cameras with just one click
- Configure video formats
- Configure recording schedules



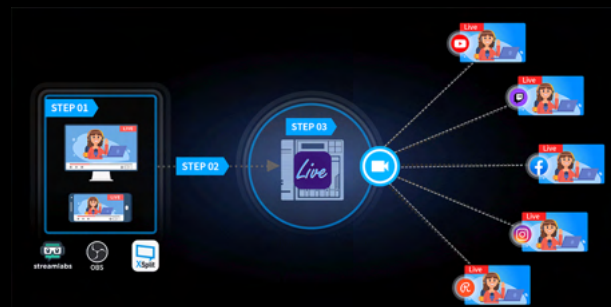
Photo Gallery 3 + AiFoto 3

The all new Photo Gallery 3 and AiFoto 3 have been revamped and brings a variety of new features to make photo organization easier than ever. New features for Photo Gallery 3 include, but not are limited to custom folder selection, timelines, smart albums, new photo modes and photo deduplication. Easily blow up photos to up to twice their size, play songs on slideshows, and customized share links make for an even better photo viewing and sharing experience.



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 Twitch, YouTube, Facebook, Instagram, Restream 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.



Mobile Apps

ASUSTOR's EZ Connect allows you to connect to your NAS from anywhere with your smartphone to access and share your files. ASUSTOR's suite of mobile apps provide pass code locks to help protect your privacy and data. Make use of HTTPS connections for even more added security when using EZ Connect.

360° Backup and Virtualization Solution

- Rsync, MyArchive
- Snapshot Center, Cloud Backup Center, DataSync Center
- Complete iSCSI/IP-SAN and NFS support
- VMware, Citrix and Hyper-V ready
- Supports Virtualization and Docker apps



Computer data to NAS



Transfer mobile data to NAS



NAS local backup



Public cloud and NAS data backup



NAS to NAS



NAS backup to external device

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.

Immutable data storage space, WORM is here!

WORM (Write Once, Read Many) is a data storage technology that only allows data to be written to a storage device once and prevents it from being deleted or modified. Data stored on WORM-compliant storage is immutable. This means that once data has been written to a WORM-compliant storage device, it cannot be modified. This plays a key role when it comes to addressing data security and compliance requirements as well as protecting against ransomware and other attacks.

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.

Data Protection Starts with Storage

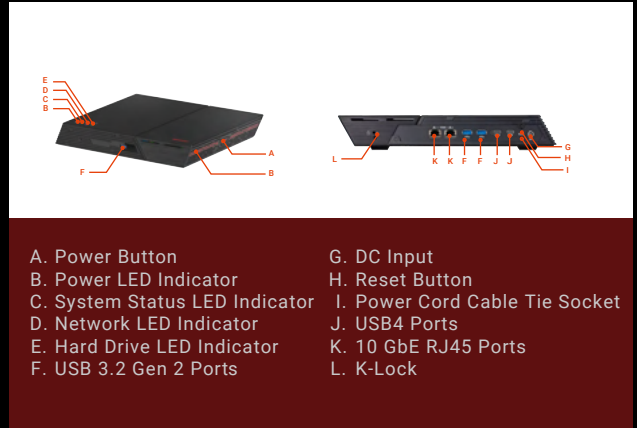
ASUSTOR understands that your data is priceless, therefore ASUSTOR NAS provides numerous options for protecting your data from a variety of threats. Your data is important and receives numerous levels of protection from the moment it is first stored on the NAS. Take advantage of a variety of data protection features found inside an ASUSTOR NAS, including, but not limited to RAID, easy automatic backups and snapshots. ASUSTOR recommends planning a holistic 3-2-1 backup solution to protect data easily, efficiently and effectively.

	Single	JBOD	RAID 0	RAID 1	RAID 5	RAID 6	RAID 10
Minimum number of disks	1	2	2	2	3	4	4
Faulty Disks Tolerated	X	X	X	1	1	2	1
Increased System performance	X	X	V	X	V	V	V
Maximum use of Storage space	V	V	V	🗄️ x 1/2	🗄️ -1	🗄️ -2	🗄️ x 1/2

Hardware Specification

FS6812X (Flashstor 12 Pro Gen2)

CPU	AMD Ryzen V3C14 Quad-Core, 2.3 GHz up to 3.8 GHz
Memory	16GB ECC DDR5-4800 SO-DIMM (Expandable. max. 64GB)
M.2 Slots	12x M.2 PCIe (NVMe) Support M.2 2280 SSDs 1* PCIe Gen4x4, 3* PCIe Gen4x2, 4* PCIe Gen4x1, 1* PCIe Gen3x4, 1* PCIe Gen3x2, 2* PCIe Gen3x1
Network	2x 10 GbE(10G/2.5G/1G/100M)
USB	2x USB4 + 3 x USB 3.2 Gen2x1
Dimensions (HxWxD)	48.3 (H) x 308.26 (W) x 193 (D) mm
Weight	1.45 kg / 3.19 lb
PSU	120 W
Operation / Sleep Mode(S3)	33.2 W / 2.8W
Volume Types	Single, JBOD, RAID 0/1/5/6/10, RAID 1/5/6/10 + Spare Drive



Software & Features

Operating System

- ADM 5.0 Onwards
- Supports Online Firmware Updates

Supported OS

- Windows 10, 11, Server 2003, Server 2008 R2, 2012, 2016, 2019, 2022
- macOS 10.13 Onwards
- UNIX, Linux, BSD

Access Control

- Supports 2-Step Verification
- Supports Batch Creation and Importation of ADM Accounts
- Maximum Number of Users: 4096
- Maximum Number of Groups: 512
- Maximum Number of Shared Folders: 512
- Maximum Number of Concurrent Connections: 512
- Supports Windows Active Directory/LDAP

File Explorer

- Web-based File Management
- ISO File Mounting • Task Monitor
- Thumbnail Previews
- Data Access via External Optical Drive
- Supports video playback
- Share Links quick upload

System Administration

- Log Types:
 - System Log, Connection Log, File Access Log
- Real-time Online User Monitor
- Real-time System Monitor
- User Quota
- Virtual Drives (ISO Mounting, Maximum 16)
- UPS Support

Storage Management

- Supports Multiple Volumes with Spare Disks
- Volume Type: Single disk, JBOD, RAID 0/1/5/6/10
- Support for Online RAID Level Migration
- Support for Online RAID Capacity Expansion

Disk Management

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

External Devices

- Supports USB 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

Network

- TCP/IP (IPv4 & IPv6)
- Jumbo Frames (MTU)
- VLAN
- SMB Multichannel
- EZ-Connect
- Wireless Network
- DDNS and EZ-Router

Network Protocols

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

Security

- AES 256-Bit Folder Encryption
- Firewall: Prevent Unauthorized Access
- Alert Notifications:
- Encrypted Connections: HTTPS, FTP over SSL/TLS, SSH, SFTP, Rsync over SSH
- Built-in Hardware Encryption Engine: AS63, 64, Nimbustor(G1-G2), Lockerstor (G1-G3), Lockerstor Pro, Flashstor (G1-G2) series

Dr. ASUSTOR

- Security advice and health records

Backup Solutions (Two-Way Backup)

- Rsync (Remote Sync) Backup
- SMB Backup
- Cloud Backup
- External Backup
- USB One Touch Backup
- FTP Backup
- 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

Supported Browsers

- Firefox, Chrome, Safari, Microsoft Edge

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

Server

- VPN server, SNMP server, RADIUS server, Syslog server, Mail server, DHCP server, Web server, FTP server, Print server, Rsync server

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

Snapshot Center

- Btrfs Snapshots
- 256 snapshots
- iSCSI LUNs

Supported Languages

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

iSCSI/IP-SAN

- Maximum Targets: 256
- Maximum Snapshot Versions of a Single LUN: 256
- Maximum LUNs: 256
- Target Masking
- LUN Mapping
- ISO File Mounting
- Supports MPIO
- SCSI-3 Persistent Reservations

Featured Apps

- ClamAV Antivirus
- Download Center
- FTP Explorer
- DataSync Center
- Cloud Backup Center
- RADIUS Server
- Mail Server
- DataSync Center
- LooksGood
- Photo Gallery 3
- SoundsGood
- Surveillance Center
- UPnP Media Server
- VPN Server
- VPN Client

Mobile Apps

- AiMaster
- AiFoto 3
- AiMusic
- AiVideos
- AiData
- AiDownload (Android)
- AiSecure
- AiRemote



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Dealer Seal