

# asustor

## LOCKERSTOR4 Gen3 AS6804T

### Ryzen up to the challenge!

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
- 4x 2½" & 3½" drives supported
- 4x M.2 slots for NVMe SSDs – Supports PCI Express 4.0 x1
- Dual 10GbE plus dual 5GbE
- 2x USB4 (Type-C)
- 3x USB 3.2 Gen 2x1 (Type-A)
- WOL/WOW supported



AMD Quad-Core



16 GB ECC  
DDR5-4800



Dual 10 Gigabit  
Ethernet



Dual 5-Gigabit  
Ethernet



4x M.2 slots  
for NVMe SSDs



PCIe 4.0



Dual USB 4



3x USB 3.2  
Gen 2



Performance  
King



Boundless  
Functionality



Intuitive  
UI



Incredible  
Value



3 Year  
Warranty

## No Compromises Performance

The Lockerstor Gen3 series come with four M.2 slots for NVMe SSDs using PCI Express 4.0. This brings numerous performance and flexibility benefits. NVMe slots in an ASUSTOR NAS can be used for storage, caching, or both. Combine M.2 storage with the Lockerstor Gen3's dual 10-Gigabit Ethernet ports for maximum power while caching provides extra performance to hard drives installed in SATA bays.

SMB Multichannel (RAID 5) Windows Sequential

1675 MB/s

Read

791 MB/s

Write

## AMD Ryzen Embedded V3C14 Quad-Core 6 nm Processor

AMD Ryzen Embedded processors are designed for stability and efficiency.



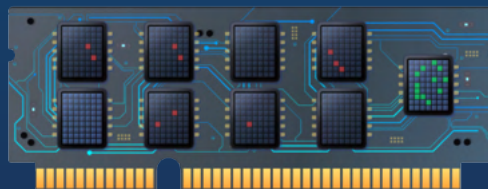
Quad-Core 2.3 GHz

Turbo to 3.8 GHz

## ECC Memory Brings Extra Stability

Error Correction Code in RAM, known as ECC memory, detects and repairs errors in memory. This improves system stability and reliability. ECC reduces the risk of data errors and ensures memory integrity in business or enterprise environments to facilitate stability in these environments. ASUSTOR's Lockerstor Gen3 also supports up to 64 GB of DDR5 memory for that extra oomph when you need it.

### ECC memory



## USB4 Brings Lightning-Fast Speeds

In a first for ASUSTOR, the Lockerstor Gen3 comes with two USB4 ports. Supporting transfer rates of up to 40 Gbps, USB4 on an ASUSTOR NAS makes backing up to SSDs even faster than ever before.

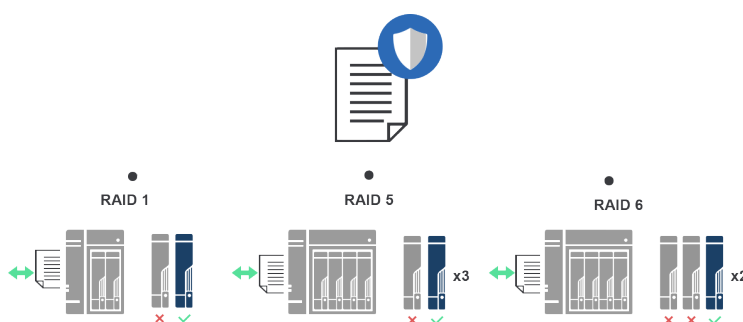


up to

40 Gbps

## Data Protection Starts with Storage

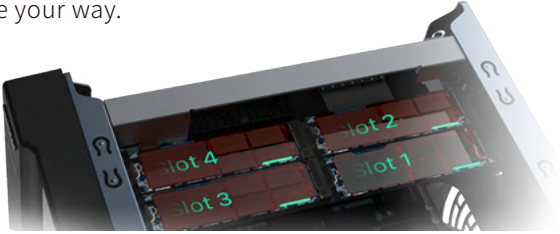
ASUSTOR understands that your data is priceless, therefore ASUSTOR NAS provides numerous options for protecting your data from a variety of threats. Your data is important and receives numerous levels of protection from the moment it is first stored on the NAS. Take advantage of a variety of data protection 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

## PCI Express 4.0 Brings Doubled Performance

The Lockerstor Gen3 series is equipped with four M.2 slots for NVMe SSDs. These newly upgraded M.2 slots now support the PCI Express 4.0 bus which doubles the performance over PCI Express 3.0. ADM supports both caching and storage for faster random I/O performance done your way.



## Keeping Cool

High-speeds often mean high heat. The heat dissipation solution inside the Lockerstor Gen3 series is designed for maximum heat dissipation by using heat pipes and fins to take away waste heat from the CPU. This allows the CPU to keep higher boost speeds for longer, making 10GbE transfer rates and apps run faster.



## 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



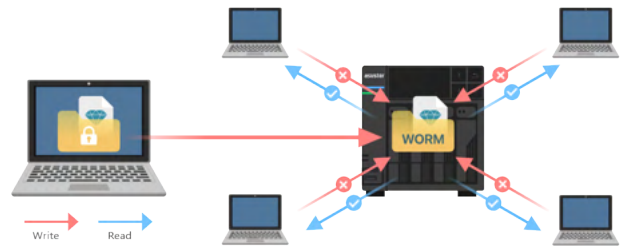
NAS to NAS



NAS backup to external device

## 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.



## Proactively Prevent Suspicious Connections

Record suspicious IPs with the ADM. When the risk detection greylist is enabled, ADM will automatically block potentially harmful IP addresses found in the AbuseIPDB database and add them to the risk detection greylist. Denying suspicious IP connections can help further reduce the risks of a NAS being attacked and further improve data security.

## Dr. ASUSTOR

Dr. ASUSTOR monitors your ASUSTOR NAS for abnormalities and keeps check on a variety of settings and data health points in your NAS to ensure your NAS is running well and makes recommendations to help better protect your data.

## 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
- Wake-on-LAN (WOL)
- Wake-on-WAN (WOW)

### Secured Data Transmission

- VPN connection
- SSL certificate connection
- Automatic logout

### Internal Data

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

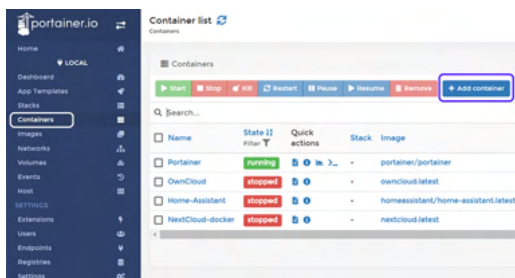
## Wake on LAN and Wake on WAN – Always on Standby

Save power and money with Wake on LAN and Wake on WAN. ASUSTOR NAS features Wake on LAN and Wake on WAN to allow your NAS to power off when not in use and be woken up with a click. Use Wake on LAN when you are on the same network as the NAS while Wake on WAN is for when you are away from the NAS. Wake on LAN and Wake on WAN also protect against attacks by only waking up to your demands.



## 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.



## ASUSTOR MyArchive

ADM now supports automatic mounting and dismounting of MyArchive drives when backing up important data from an ASUSTOR NAS to a MyArchive drive. ADM will automatically mount a connected MyArchive when a backup begins, and automatically eject a MyArchive drive after the backup is complete. In addition to making performing 3-2-1 backups easier than ever, MyArchive drives are more comprehensively protected from various threats due to a different set of risks that complement the risks to data on a NAS.



## Automatic Sync

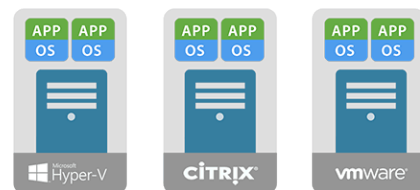
ASUSTOR EZ Sync brings the magic of cloud sync services right to your home. With an ASUSTOR NAS and EZ Sync, data can be synchronized anywhere with an internet connection without a monthly bill or a data limit. If data is unintentionally modified, restoration is easy with EZ Sync's automatic file history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



## Snapshot Center

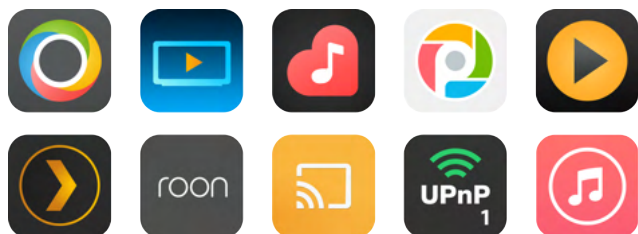
Snapshot Center allows ASUSTOR NAS devices to utilize Btrfs and iSCSI volumes to take snapshots of the information inside a NAS. Snapshot Center supports up to 256 snapshots of a volume and can be done every five minutes, creating a backup that can be restored easily if data is damaged or lost. MyArchive 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.

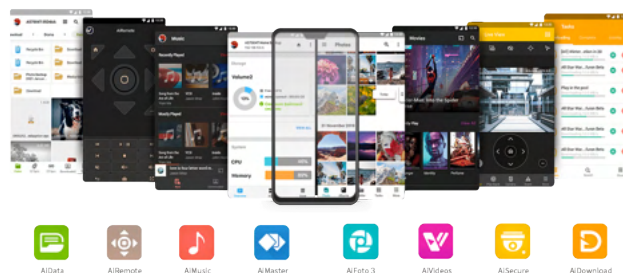


## ASUSTOR Live

Your own streaming center. Stream 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



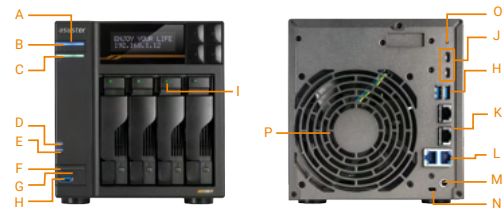
ASUSTOR's EZ Connect allows you to connect to your NAS from anywhere with your smartphone to access and share your files. ASUSTOR's suite of mobile apps provide pass code locks to help protect your privacy and data. Make use of HTTPS connections for even more added security when using EZ Connect.

# Hardware Specification

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

## LOCKERSTOR 4 Gen3 (AS6804T)

Processor	AMD Ryzen V3C14 Quad Core 2.3GHz up to 3.8GHz
Memory	16GB ECC DDR5-4800 SO-DIMM
M.2 Support	4
Drive Bays	4
Network	2x 10 GbE(10G/2.5G/1G/100M) + 2x 5 GbE(5G/2.5G/1G/100M)
Internal Expansion	N/A
External Expansion	2x USB 4.0 + 3 x USB 3.2 Gen2x1
Dimensions (HxWxD)	185.5(H) x 170(W) x 230(D) mm
Weight	3.2 kg / 7.06 lb
PSU	90W
Operation/Disk Hibernation/Sleep Mode(S3)	34W/18W/2.3W
Volume Types	Single, JBOD, RAID 0/1/5/6/10, RAID 1/5 + Spare Drive



- |                              |                          |
|------------------------------|--------------------------|
| A. Power Button              | I. Hard Drive LEDs       |
| B. Power LED                 | J. USB4 Ports            |
| C. System Status LED         | K. 10 Gigabit RJ45 Ports |
| D. 10-Gigabit Ethernet LED 1 | L. 5 Gigabit RJ45 Ports  |
| E. 5-Gigabit Ethernet LED 2  | M. DC Input              |
| F. USB LED                   | N. K-Lock                |
| G. One Touch Backup Button   | O. Reset                 |
| H. USB 3.2 Gen2 Ports        | P. Exhaust Fan           |

## Software & Features

### Operating System

- ADM 5.0 Onwards
- Supports Online Firmware Updates

### Supported OS

- Windows 7, 8, 10, 11 Server 2003, Server2008 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 •Share Links quick upload
- Task Monitor
- Thumbnail Previews
- Data Access via External Optical Drive
- Supports video playback

### System Administration

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

### 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 Drives/DVD ROM Drives/BD-ROM

### 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 (WOW)

### 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 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 series

### Dr. ASUSTOR

- Security advice and health records

### Backup Solutions

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

### 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, ไทย

### iSCSI/IP-SAN

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

## Featured Apps

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

## Mobile Apps

- |            |              |            |
|------------|--------------|------------|
| • AiMaster | • AiVideo    | • AiSecure |
| • AiFoto 3 | • AiData     | • AiRemote |
| • AiMusic  | • AiDownload |            |



### ASUSTOR Inc.

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