

# asustor

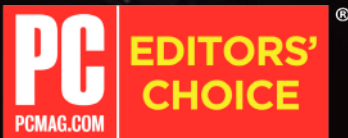
naStor



## NIMBUSTOR 4 AS5304T

**2.5GbE stores even more with the Nimbustor 4!  
The #1 cloud storage device for live stream  
collection and content creators.**

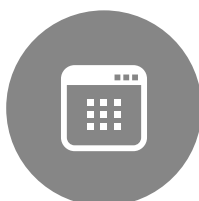
- Two 2.5 GbE ports with up to 5 Gbps under Link Aggregation
- Up to 56TB. Store live streams on your NAS
- Overwhelming 4K experience
- 4GB DDR4-2400 - 30% faster than DDR3
- Intel Celeron quad core CPU - 30% faster than previous generation.
- Three year warranty, best in class



Performance  
King



Boundless  
Functionality



Intuitive  
UI



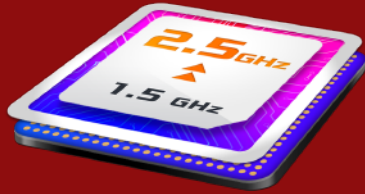
Incredible  
Value



3 Year  
Warranty

## 1.5Ghz Quad-core boosts to 2.5Ghz

The Nimbustor 4 utilizes the Intel Gemini Lake Celeron J4105 Quad Core CPU and is 30% faster than Apollo lake. The Celeron J4105 also doubles the on-chip cache to 4MB, making the Nimbustor 4 one of our fastest NAS devices ever.



## Upgradeable 4GB DDR4-2400 RAM

The Nimbustor 4 comes with four Gigabytes of DDR4 RAM and can be upgraded up to 8GB. DDR4 RAM provides up to 30% greater performance than DDR3 while also lowering energy requirements by 40%.



Link Aggregation (RAID 5) Windows Sequential

**564 MB/S**

Read

**551 MB/S**

Write

Link Aggregation (RAID 5) iSCSI Sequential

**564 MB/S**

Read

**564 MB/S**

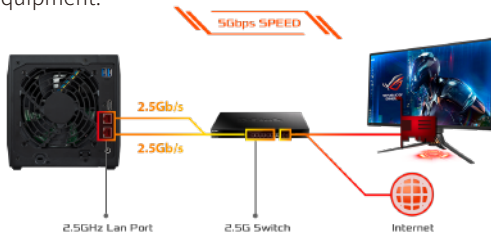
Write

\*Performance figures are achieved in the ASUSTOR lab using state of the art client computers under optimized network settings, and could vary in different environments.

## 150% faster with 2.5-Gigabit Ethernet

The Nimbustor 4 provides two 2.5-Gigabit Ethernet ports. Enable up to 150% faster performance than Gigabit Ethernet with compatible hardware and up to 5 Gbps using Link Aggregation.\*

\*Link Aggregation only supported with compatible hardware. Please check beforehand and verify that Link Aggregation is supported on your equipment.



## A New Look

Diamond-cut exterior with gaming-inspired elements. ASUSTOR's NAS features a diamond-cut exterior with new gaming-inspired aesthetic. Installation of hard drives is easy with the included toolless caddies while also supporting hot swapping.

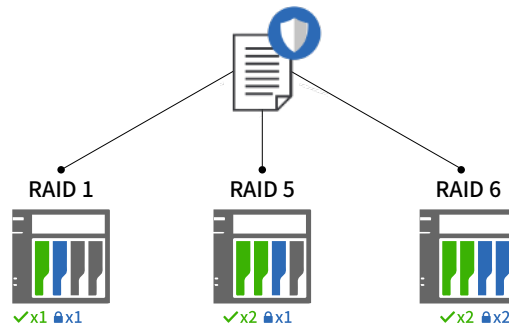
## All New Gaming-Inspired Theme for ADM

Take a look at the all new gaming-inspired elements brought to ADM.



## Data Protection Starts with ASUSTOR RAID

ASUSTOR understands that your data is priceless, therefore an ASUSTOR NAS provides different RAID options, giving your data various levels of protection from the moment it is first stored on the NAS. We recommend you plan your storage protection based on your NAS model and number of hard drives. Data protection has never been so simple.



	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	✗	✗	✗	1	1	2	2
Increased System performance	✗	✗	✓	✗	✓	✓	✓
Maximum use of Storage space	✓	✓	✓	🗨 x 1/2	🗨 -1	🗨 -2	🗨 x 1/2

## As Much Space as Needed

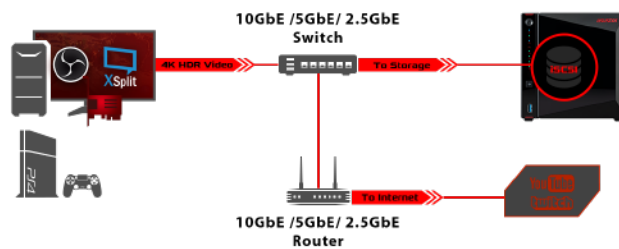
The Nimbustor 4 supports up to 56TB, enabling storage of large live streams and videos. Complement gameplay recordings with a NAS. Not enough? Expand your Nimbustor 4 with up to three AS6004U expansion units for a total of 168TB.



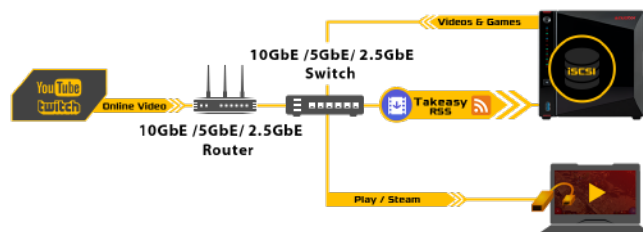
Max **56TB** + **AS6004U X3** = **168TB**

## Live Streaming with Your NAS

ASUSTOR NAS devices offer live stream records in up to 4K HDR to be saved directly onto a NAS without affecting game performance. For gamers without large hard drive capacities, LAN parties and internet cafés, ADM offers iSCSI to store less demanding titles to play across multiple devices simultaneously.



YouTube and Twitch as cloud platforms are not always reliable with long-term archival of content and videos may be deleted without notice. For that, ASUSTOR provides Takeeasy, an app that downloads videos from YouTube and Twitch for archival purposes and can automatically download all public content from a specific channel.



## Cross-Platform Multi-user Access

The ASUSTOR NAS provides seamless cross-platform and multi-user access, allowing you to easily connect to your NAS from Windows, macOS or Unix-like operating systems no matter if you are using a PC, notebook, tablet or smartphone.

**4096**  
Accounts

**512**  
Groups

**512**  
Shared Folders

**512**  
Concurrent Connections



## Protected from the Inside and Out

Protect your data from loss, damage and attacks with the Nimbustor 4. Nimbustor 4 is better protected by running the Linux-based ADM, employing a built-in firewall, ClamAV Antivirus, MyArchive and ADM's various backup tools help protect ransomware even better.

### Network Attack Protection

- Firewall
- ADM Defender

### Access Control

- File/folder/app isolation
- 2-Step Verification

### Secure Data Transmission

- VPN connection
- SSL certificate connection
- Automatic logout

### Internal Data

- MyArchive offline backup
- AES-256 folder encryption
- Antivirus software



## Comprehensive Backup Solutions

ASUSTOR's comprehensive backup solution provides more than twelve backup options, including, but not limited to Amazon S3, Dropbox, Google Drive, and Onedrive. ASUSTOR Backup Plan for Windows as well as Time Machine for macOS provide easy backups for desktop and laptops while MyArchive removable hard drives provide long term storage. Btrfs is now supported and with Snapshot Center, can take snapshots of your information in the event of unintentional modification. Restore previous versions easily with Snapshot Center.



## Exclusive MyArchive Cold Backup Technology

MyArchive cold backup technology turns NAS hard disks into removable storage archives. Directly insert a MyArchive hard disk into the NAS to easily access, backup and share terabytes of content.

### MyArchive

- Saves power during system standby
- Create an unlimited number of MyArchive hard disks
- Utilizes SATA III at 6 Gbps for faster data transfers
- Compatible with NTFS/EXT4/HFS+/exFAT
- Supports AES 256-bit encryption
- Decryption via physical USB key





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

Save power and money with Wake on LAN and Wake on WAN. The Nimbustor 4 feature Wake on LAN and Wake on WAN, allowing the device to power off when not in use and be woken up with a command. Use Wake on LAN when on the same network as the NAS while Wake on WAN 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 commands. To an outsider, your NAS is off, protecting your data.



## Automatically Synchronize Files Between Computer and NAS

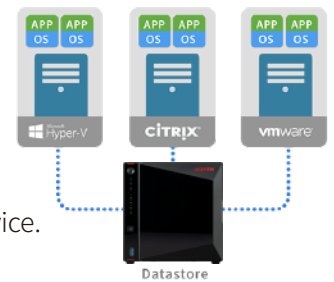
ASUSTOR EZ Sync brings the magic of cloud sync services right to your home. With an ASUSTOR NAS and EZ Sync, data can be synchronized anywhere with an internet connection without a monthly bill or a data limit. If data is unintentionally modified, restoration is easy with EZ Sync's automatic file history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



## Integrate with a Variety of Enterprise Applications

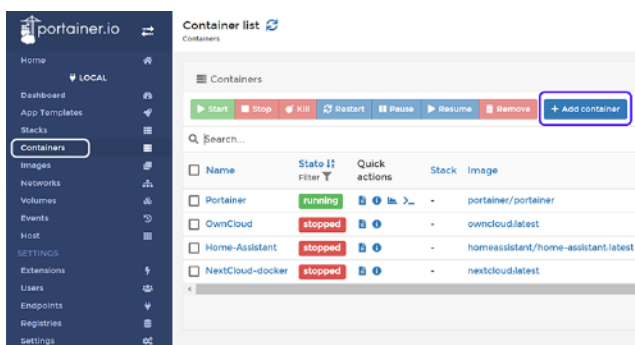
### Storage Virtualization

ASUSTOR's snapshot technology provides almost instantaneous creation of snapshots. It saves a significant amount of time and storage capacity when compared with traditional LUN backups. Should files become damaged or corrupted, the simple and theintuitive interface allows administrators to quickly restore data, completing disaster recovery in the fastest time possible and providing uninterrupted service.



## Portainer – Easy Docker Deployments

Even more possibilities for ADM 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 is a new feature for ASUSTOR NAS devices that utilizes 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.



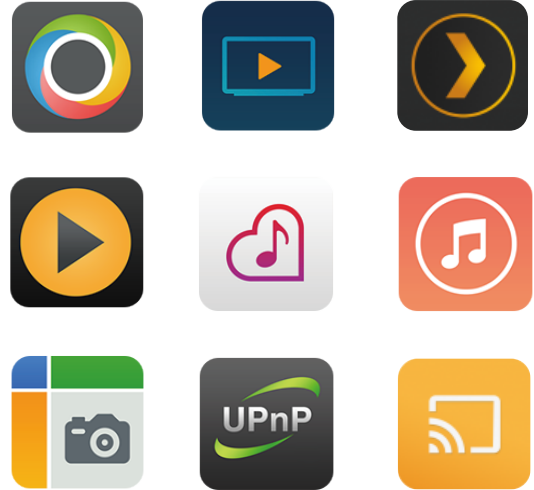
## Overwhelming 4K HDR Experience

Pair a 4K 60Hz monitor with the HDMI 2.0a port found on a Nimbustor 4 NAS featuring 10bit 4K hardware decoding, HEVC decoding and VP9 10bit Profile2 decoding for an even smoother experience and lower CPU usage. Use Plex Pass or any third party player to play 4K HDR videos.



## Created for the Digital Home

ASUSTOR NAS allows you to enjoy thrilling digital entertainment at any time. Pair the Nimbustor 4's built-in HDMI port with various multimedia apps the NAS can be connected directly to UHD TVs and players. Enjoy multimedia with family and friends or use the UPnP multimedia server to stream your favorite media to compatible computers and mobile devices.



## Comprehensive Surveillance System

The powerful 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 Nimbustor 4 supports up to 36 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



## 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 suite of mobile apps provide pass code locks to help protect your privacy and data. You can also make use of HTTPS connections for even more added security.



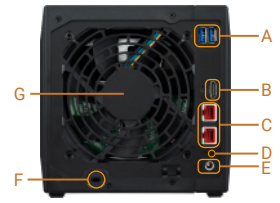
# Hardware Specification

## Nimbustor 4

Processor	Intel Celeron J4105 Quad-Core 1.5 GHz (burst up to 2.5GHz)
Memory	4GB SODIMM DDR4 (Expandable. MAX. 8GB)
Drive Bays	4 x SATA3 6Gb/s; 3.5"/2.5" HDD/SSD
Network	2.5 Gigabit Ethernet x 2
External Device Interface	USB 3.2 Gen 1 x 3
Dimensions (HxWxD)	170(H) x 174(W) x 230(D) mm
Weight	2.2 kg / 4.85 lbs
Power	External Power Adapter: 90 W
Operation/Disk Hibernation/Sleep Mode(S3)	27 W / 12.6 W / 1.4 W
Volume Type	Single disk, JBOD, RAID 0 / 1 / 5 / 6 / 10
HD Display	HDMI 2.0a x1



- A. Power LED
- B. System Status LED
- C. Network LED
- D. USB LED
- E. Hard Drive LEDs



- A. USB 3.2 Gen1 Ports
- B. HDMI Port
- C. 2.5 Gigabit RJ45 Ports
- D. Reset Button
- E. DC Input
- F. K-Lock
- G. System Fan

## Software & Features

### Operating System

- ADM 3.5 Onwards
- Supports Online Firmware Updates

### Supported OS

- Windows XP, Vista, 7, 8, 10, Server 2003, Server 2008, Server 2012
- Mac OS X 10.6 and up
- UNIX, Linux, and BSD

### Access Control

- 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
- Supports Windows Active Directory / LDAP

### File Explorer

- Web-based File Management
- ISO File Mounting
- Share Links
- Task Monitor
- Browse Files on Local PC
- Thumbnail Previews
- Data Access via External Optical Drive
- Supports video playback

### System Administration

- Log 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

### 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

### Disk Management

- Scheduled Bad Block Scans
- Scheduled S.M.A.R.T Scans

### 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 Drives

### Energy Control

- Configurable Disk Hibernation and Sleep Mode Wait Time
- Configurable Time Period for Sleep Mode Activation
- Automatic Sleep

### Supported Browsers

- Internet Explorer 11 Onwards, Firefox, Chrome, Safari, Microsoft Edge

### Network

- TCP/IP (IPv4 & IPv6)
- Link Aggregation: Supports 802.3ad and Six Other Modes for Load Balancing and/or Network Failover
- Jumbo Frame (MTU)
- VLAN
- EZ Connect
- Wireless Network
- DDNS/EZ-Router
- Supports Wake-on-LAN (WOL)
- Supports Wake-on-WAN (WOW)

### Network Protocols

- CIFS / SMB, SMB 2.0 / 3.0, AFP, NFS, FTP (Unicore 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: E-mail, SMS
- Encrypted Connections: HTTPS, FTP over SSL/TLS, SSH, SFTP, Rsync over SSH
- Built-in Hardware Encryption Engine: AS10/31/32/61/62/63/64/70/Nimbustor 2&4 Series

### Backup Solutions

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

### Network Recycle Bin

- Supports shared folders
- Maintains original directory structure and file permissions
- One-click restore
- Supports scheduled emptying
- Filtering rules
  - File size
  - File extension

### Supported Languages

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

### File System Support

- Internal: ext4, Btrfs
- External: FAT32, NTFS, ext3, ext4, HFS+, exFAT, Btrfs

### ACL

- Provides both Windows ACL and Linux ACL permission configuration methods
- Supports Windows ACL for specific shared folders
- Comprehensive support for 13 types of advanced permission settings found in Windows
- Can view Windows ACL permission settings from within ADM
- Supports local users and groups
- Exclusive permission reset feature 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: AS31/32/50/51/61/62/63/64/70/Nimbustor 2&4 series

### Snapshots

- Btrfs Snapshots
- 256 snapshots
- iSCSI LUNs
- Support model: AS31/32/40/50/51/61/62/63/64/70/Nimbustor 2&4. Snapshot Center will not display Volume snapshots information in other models.

### 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

### Sever

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

## Featured Apps

- Antivirus
- ASUSTOR Portal
- (HDMI Local Output)
- Download Center
- FTP Explorer
- DataSync for CloudDrive
- iTunes Server
- VirtualBox
- RADIUS Server
- Mail Server
- LooksGood
- Photo Gallery
- SoundsGood
- Takeasy
- Linux Center
- Surveillance Center
- UPnP Media Server
- VPN Server
- VPN Client

## Mobile Apps

- AiMaster
- AiFoto
- AiMusic
- AiVideo
- AiData
- AiDownload
- AiSecure
- AiRemote



ASUSTOR Inc.

3F, No.136, Daye Rd., Beitou Dist., Taipei City 112, Taiwan Tel: +886 2 7737 0888 www.asustor.com  
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