

### INTRODUCTION

The NAS 4.0 is Addonics' 4th generation NAS adapter with several major enhancements. Comes with two eSATAp ports that allows attaching either two eSATA or two USB 2.0 storage devices onto the LAN, as many as 16 storages devices (or drive volume) can be attached to the new NAS 4.0 using USB hubs. With these many drives, you can easily share multi-Terabyte storage over LAN or build your own private cloud storage that can be accessed via the built-in FTP server.

Performance of the NAS 4.0 is quadrupled from the previous NAS adapter to 75 MB/sec over 1G network. Both the maximum number of SMB and FTP accounts as well as the concurrent users supported by the NAS 4.0 are vastly expanded to support over thousands and hundreds respectively.

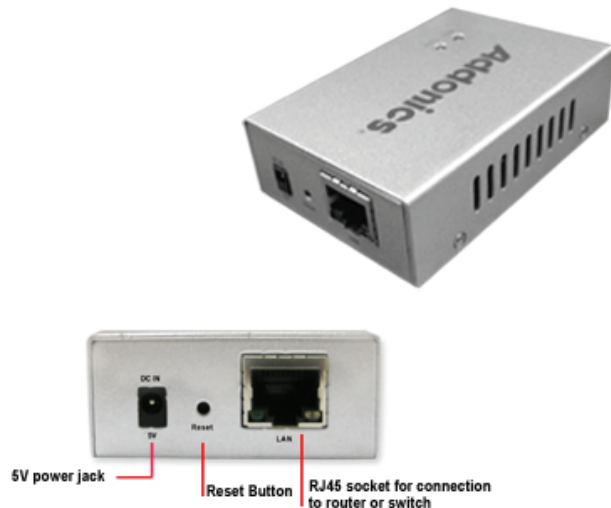
The NAS 4.0 also support storage devices with multiple partitions, with each partition appearing as a share folder on the network. The supported file system now includes XFS, EXT2, EXT3, EXT4, NTFS and FAT32. A very large storage in excess of hundreds or thousands of Terabytes storage capacity can be easily built by attaching multiple units of Addonics RAID Towers or RAID Racks. A storage farm with capacity exceeding many commercial data center can be easily put together at just a fraction of the cost of an enterprise storage system. Storage capacity can be added to the NAS 4.0 in many many years to come without ever reaching the capacity limitation.

Constructed in a rugged metallic housing in the size of a cigarette pack, the NAS 4.0 adapter is built to last and can be deployed in home, general office, factory or mobile environment.

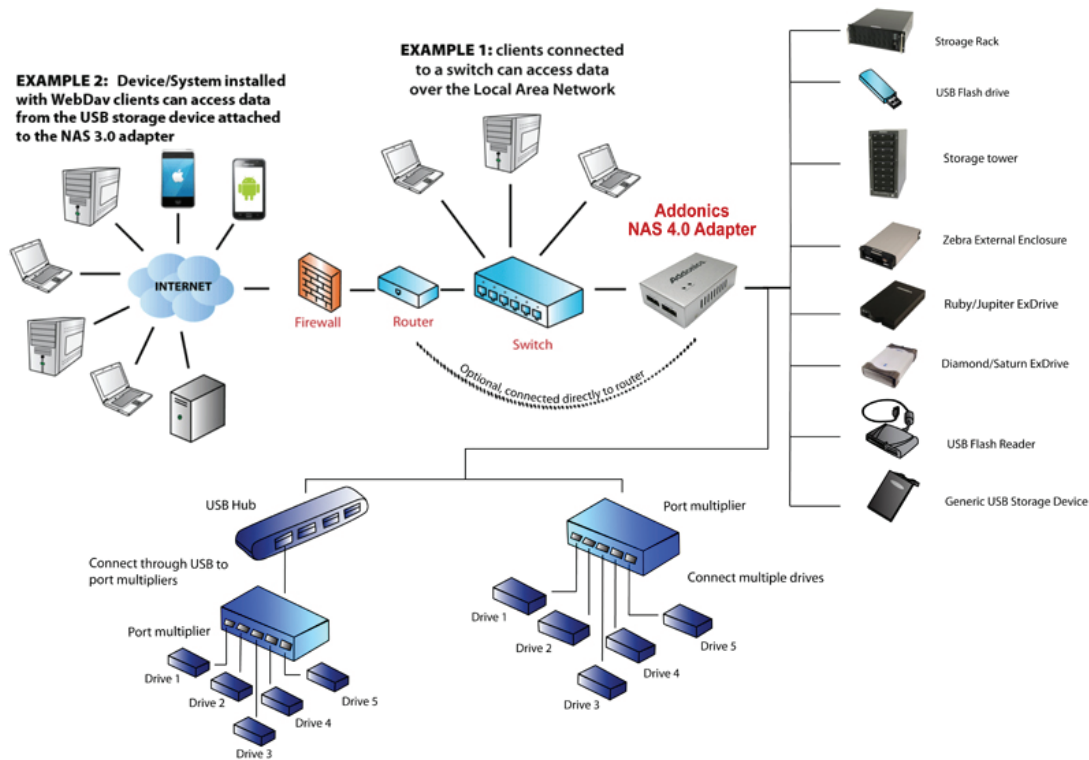


Front View of NAS 3.0 Adapter

Rear View of NAS 3.0 Adapter



## Illustration of a NAS 4.0 Adapter connected to the LAN and WAN



## FEATURES

- Turn any eSATA or USB mass storage device into a Network Attached Storage appliance
- Great for attaching Addonics Raid Tower / RAID Rack, Flash reader and any Addonics USB storage device onto the network
- A powerful tool for creating a custom Network Attached Storage appliance.
- Two eSATAp ports for connecting two eSATA storage devices for high performance or two USB 2.0 storage devices
- Up to 16 storage devices can be connected to the LAN with the following additional accessories:
- USB Hub
- Port Multiplier (PM) via USB connection such as the Addonics PM model AD5HPMREU. For PM that is not equipped with USB connection, the Addonics USB 3.0 - eSATA adapter can be used for converting the eSATA output from the PM to USB. Please review using the PM in the Q&A section for more detail
- Support Up to 15 partitions per storage device - giving a maximum 240 drive volumes on the network
- Built-In SMB / Samba server for file sharing over LAN
- Built-in FTP server for file access over the internet
- Support any eSATA or USB storage with XFS, EXT2, EXT3, EXT4, NTFS or FAT32 file system
- Maximum partition size or drive volume capacity:
- XFS - 16 tebibyte (TiB)
- EXT3 - 16 tebibyte (TiB)
- EXT4 - 1 EiB
- NTFS - 10 TB

## FEATURES (Cont.)

- FAT32 - 2TB
- Storage device with existing data can be attached to the NAS adapter (the folder name must be in large CAP to be sharable). See Q&A section on folder and file security setting.
- Built-in file formatting utility for XFS and EXT3
- Support 10/100/1000 Mbps network
- Maximum data transfer over Gigabit LAN:

eSATA storage		USB storage		
read	write	read	write	
XFS	up to 85 MB/sec	up to 45 MB/sec	up to 30 MB/sec	up to 30 MB/sec
EXT3 or EXT4	up to 50 MB/sec	up to 35 MB/sec	up to 30 MB/sec	Up to 30 MB/sec
NTFS	up to 16 MB/sec	up to 5 MB/sec	up to 16 MB/sec	up to 5 MB/sec
FAT32	up to 18 MB/se	up to 8 MB/se	up to 18 MB/se	up to 8 MB/sec

- Built-in MLDonkey client for direct download to the attached storage device
- Web GUI administration
- User management to allow read only or read/write access to folders
- USB port can be used to power most 2.5" USB hard drives or any low power USB storage device
- Simple to install
- Small and light weight. Size of a cigarette pack. Can be installed practically anywhere
- Rugged metal enclosure for use in wide range of application environments
- Compatible with all Windows OS, Mac OS X, Linux 2.6.x and above

\*USB hard drives over 2TB from Western Digital and Seagate such as the GoFlex series are not compatible, please see detail explanation in Q&A section

Note 1: This is a new feature available on the latest firmware V87a. Products that are shipped after 8/2/2013 are loaded with the latest firmware. You may upgrade to the new firmware on your unit by going to the Support tab on this page and follow the firmware upgrade procedure.

### SPECIFICATIONS

- Two eSATAp (eSATA/ USB 2.0 combo) connectors
- SATA 1.0 specification
- USB 2.0 / 1.1 specification
- USB port can supply power up to 1.5A at 5V using the bundled power adapter
- One RJ45 socket for 10/100/1000Mbps Ethernet connection
- File systems support: XFS, EXT3, EXT4, NTFS, FAT16, FAT32
- Maximum # of storage devices supported - 16 (requires combination of USB hubs or Port Multipliers)
- Maximum # of partition per storage device - 15
- Maximum user accounts:
  - Samba server - 64,0000\*
- Maximum # of concurrent connections:
  - Samba and FTP server combined - 32,000\*
- LED for power, status and LAN activity
- Power consumption: 2 watts @ idle, 2.5 watts average during operation
- Dimensions (L x W x H): ~ (85 x 55 x 23) mm or (3.35 x 2.17 x .91) in.
- Weight: ~172g (6.1 Oz)
- Operation Temperature: 0 °C ~ 70 °C
- Operation Humidity: 10 ~ 90 %RH
- Storage Temperature: -20 °C ~ 70 °C
- Storage Humidity: 5~ 95 %RH
- Power consumption: ~ 500mA @ 5V

\* These are the theoretical limits in the kernel. As # of concurrent connections increase, performance starts to decline depending on the drive access activity from the concurrent connections.