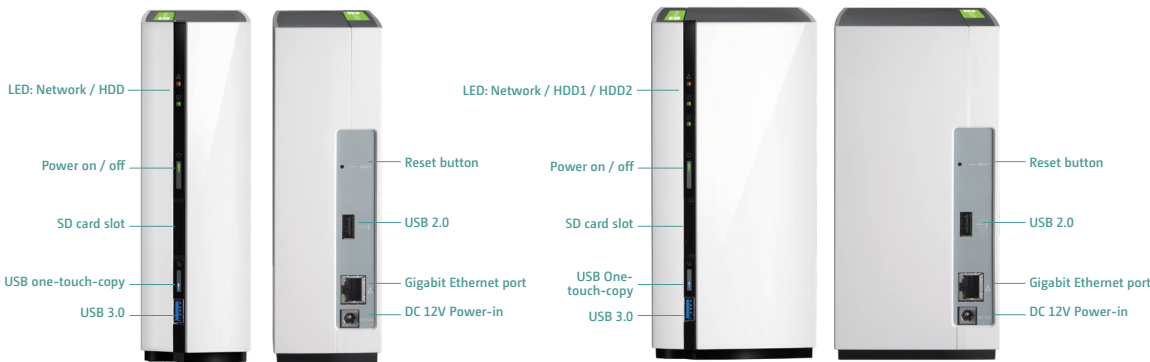


Hardware Specifications



Product Model	TS-128	TS-228
CPU	ARM®v7 1.1 GHz dual-cores	
Pre-installed Memory	1GB DDR3 RAM	
Flash	4 GB	
Max. number of HDDs/SSDs	1	2
Compatible Drive Type	3.5" SATA HDDs	
LAN Ports	1 x Gigabit RJ-45 Ethernet ports	
USB Ports	1 X USB 3.0 (front) 1 X USB 2.0 (back)	
LED Indicators	Status, LAN, USB, HDD	Status, LAN, USB, HDD 1-2
Buttons	Power/status, USB One-touch-copy, Reset	
Buzzer	System alarm	
Form Factor	Compact desktop	
Dimensions	187.7 x 60 x 125 mm 7.36 x 2.36 x 4.92 inch	187.7 x 90 x 125 mm 7.36 x 3.54 x 4.92 inch
Weight (Net/Gross)	0.56 Kg (1.23lbs) / 1.74 Kg (3.84lbs)	0.7 Kg (1.54lbs) / 1.88 Kg (4.14lbs)
Power Consumption (W)	In Operation: 8.96 HDD Sleep: 5.03	In Operation: 13.24 HDD Sleep: 6.05
Operating Temperature	0 - 40 °C	
Relative Humidity	5 - 95% R.H	
Power Supply	External Power Adapter 36W, 100-240V	External Power Adapter 60W, 100-240V
System Fan	V	
Windows® upload (10 GB, 1 x GbE), MB/s	92.73	87.71
Windows® download (10 GB, 1 x GbE), MB/s	111.05	111.05

All specifications are subject to change without notice.

1-Bay / 2-Bay Compact NAS
TS-128 / TS-228

QNAP

Your Personal Multimedia Cloud
Simple 、 Powerful 、 Silent



Multimedia and entertainment center



All-inclusive data backup and synchronization



Multiple data security mechanisms



TS-128

TS-228



Personal, affordable NAS

- Entry-level NAS powered by ARM v7 dual-core 1.1GHz with 1GB RAM
- Tool-less installation, super-quiet, compact, and environmentally friendly
- Hybrid Backup Sync for comprehensive backup from anywhere, anytime, on any device
- Multimedia entertainment center for centralized management, playback, and sharing
- Complete data protection with multiple security mechanisms
- A wealth of mobile apps for easy media access, sharing, backup, and playback



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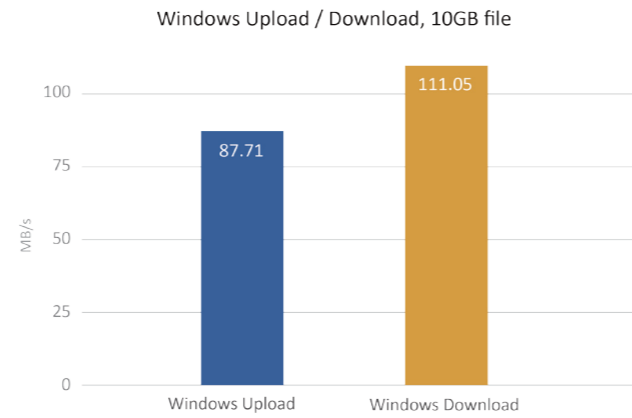
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Dual-core processor for high performance

Powered by an ARM® v7 1.1GHz dual-core processor with 1GB DDR3 RAM, the TS-x28 series delivers an average of 110 MB/s reading and 87 MB/s writing speed for smooth data transmission, concurrent access from multiple users, and home applications. The high-performance and capable TS-x28 series is ideal for serving as a multimedia center as you can back up or download files without impacting the TS-x28's series performance.



Centralize backup, restoration and synchronization with Hybrid Backup Sync

Hybrid Backup Sync consolidates backup, restoration and synchronization functions into a single QTS application for you to easily transfer your data to local, remote and cloud storage spaces as a comprehensive data storage and disaster recovery plan. You can synchronize files between the TS-x28 series and cloud storage in real time inclusion Amazon® Cloud Drive, Google Drive™, Dropbox®, Microsoft OneDrive®, Yandex® Disk, and Box®, and back up files to Amazon® S3, Amazon® Glacier, Microsoft® Azure™, Google Cloud Storage™, OpenStack Swift and WebDAV cloud services. Hybrid Backup Sync can detect sparse files to avoid backing up unnecessary data, and supports file compression backup to save storage space. There are flexible settings for concurrent file processing and multi-thread data transfer by splitting large files into smaller parts, greatly increasing the file transfer rate for greater work efficiency.



Access and enjoy with your tablets and smartphones

The TS-x28 series is your private cloud storage that virtually enlarges the capacity of your mobile devices. Qfile allows you to access, upload, download, manage, and share stored files easily as if you are carrying all of your files in your pocket. If Qfile is installed on an iOS® device, users can also browse videos & photos stored on the TS-x28 series and play via Apple TV®. Qmanager lets you monitor & manage the TS-x28 series remotely and efficiently without turning on your PC. You can take and share digital notes with Qnotes, and enjoy and share music, photos and videos on the TS-x28 series anywhere and anytime with Qmusic, Qphoto and Qvideo apps.

Archive your photo memories. Share your life.

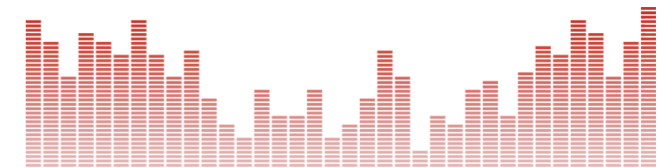
The TS-x28 series acts as your photo vault for you to back up your favorite photos. The Photo Station makes photo sharing simple, and you can designate your own access right controls. Simply upload your photos to the TS-x28 series to create & organize your photo albums through a web browser, and share with your family and friends through social networking sites such as Facebook®, Google+™, Twitter® and Pinterest®. With the Qfile and Qphoto mobile apps (for iOS® and Android™), you can also instantly upload your new photos from your mobile device to the TS-x28 series.



Build your home music library and enjoy music anywhere

The Music Station helps categorize your music collection, and displays album covers to easily organize your personal playlists. Through the music station web player, you can enjoy your music anytime, anywhere with a few clicks. Thousands of local and global online Internet radio programs are also built-into the Music Station for you to enjoy.

- Listen to your favorite songs streamed from iTunes Server, or play music via web browsers on your PC.
- Stream music to DLNA-compatible music systems for a high-quality sound experience.
- Listen to your music on mobile devices through the Qmusic app.

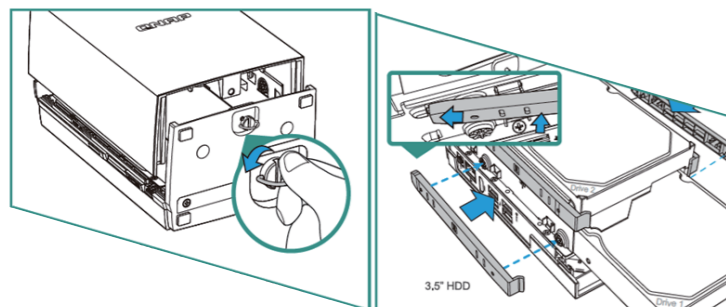


File synchronization across devices and clouds

Qsync utility turns your TS-x28 series into a safe, large-capacity data center for file synchronization. Any file uploaded to the TS-x28 series will be made available for all linked devices, such as computers, laptops or mobile devices. Qsync is especially useful for frequent travelers to manage files and always have the most up-to-date files on different devices. Qsync provides multiple ways of file synchronization and group file sharing, greatly enhancing the flexibility of team projects and collaboration. It also supports centralized configuration, and allows you to remotely erase the Qsync folder on a lost device to avoid data breaches, and even restore it after you have retrieved the device.

Light, handy, and tool-less design

Light, handy, and tool-less design
The TS-x28 series features a mini-tower design that takes less desktop space, making it suitable for homes and small/home offices. Compared with a traditional NAS cooling fan, the TS-x28 series houses a compact and quiet exhaust that helps dissipate heat with less noise and dust. With the tool-less design*, you can easily remove the TS-x28's series side cover to add or replace hard drives. The TS-x28 series is a light, handy and functional NAS that fits snugly into your digital lifestyle.



Install-on-demand apps to extend NAS functionality

The TS-x28 series has a built-in App Center that provides various install-on-demand apps developed by QNAP and third-party developers, including tools for backup/sync, business, content management, communications, download, entertainment, and much more. It is also a centralized location for managing & updating installed apps, adding potentially limitless opportunities for the TS-x28 series.

24/7 download center

The TS-x28 series is a perfect download center for high speed BT, Magnet, PT (Private Trackers), eMule, FTP, and HTTP downloads. After the download tasks are set ready, you can turn off the computer, and the TS-x28 series will download as many HD videos as you want. By installing the Qget app in your mobile devices, you can easily search download sources, download contents to the TS-x28 series, and manage download tasks on mobile devices from

