ComX Computers
Product Specification Sheet

TVS-871U-PT

QNAP TVS-871-PT TurboNAS 8-Bay Network Attached Drive

Product Overview

QNAP TVS-871-PT TurboNAS - 8-Bay, SATA3 6.0Gbps, 3.2GHz Dual Core CPU, 4GB DDR3 RAM, 512MB Flash, 4x Gigabit, 2x USB2.0, 3x USB3.0, 2x eSATA, Hotswap, 48.0TB Max, Supports Expansion: 6x Gigabit Or 2x Gigabit / 4x 10GbE Ports



Specifications

Overview:

The TVS-871 is a powerful NAS storage solution designed for I/O-intensive tasks, mission-critical business applications and fast-growing data storage needs. Incorporating reliability and security, the TVS-871 delivers high performance with persistent throughput and provides a comprehensive storage solution for SMBs to build a reliable private cloud.

Features:

- Manage, share, and back up business data with Real-time Remote Replication (RTRR)
- 10GbE-ready, highly-efficient storage solution for 4K video playback, transcoding and on-the-fly editing
- Use the TVS-871 as a PC with exclusive QvPC Technology
- Supports VMware®, Citrix®, and Microsoft® Hyper-V and advanced virtualization features
- Full NAS encryption by volume-based technology
- Enhanced data security with high-performance AES 256-bit encryption and anti-virus
- Run multiple Windows/Linux/Android-based virtual machines with the Virtualization Station

Lightning fast performance
The TVS-871 supports 6Gbps hard drives and 10Gb Ethernet, delivering over 2,300 MB/s throughput and 136,000 IOPS*. The TVS-871 is powered by an Intel® Haswell processor with numerous options including Pentium®, Core™ i3, Core™ i5 and Core™ i7 for users to flexibly choose based on their demands, greatly enhancing the efficiency of CPU-consuming tasks such as running Virtualization Station, real-time 4K video playback & transcoding, and serving large numbers of simultaneous connections.

QTS - Simple and efficient
Thanks to the intuitive user interface of QTS, system operations of the TVS-871 are smooth and handy. Its intelligent desktop allows you to find desired functions quickly, create desktop shortcuts or group shortcuts, monitor important system information on a real-time basis, and open multiple application windows to run multiple tasks concurrently, bringing greater operating efficiency.

SSD cache acceleration
The TVS-871 supports SSD caching which can greatly boost IOPS performance of storage volumes to increase operational efficiency. It is perfect for improving overall workflow of IOPS-demanding applications such as virtualization, and allows the best of both cost and performance by combining SSDs with HDDs.

10GbE ready
The TVS-871 offers 4 inbuilt Gigabit Ethernet ports and supports 10 Gigabit high speed networks by installing a 10GbE network adapter. The 10GbE-ready TVS-871 delivers lightning-fast data throughput and coupled with the support for a large storage capacity is perfect for data centers to store big data and excel in fast data transmission, as well as editing 4K videos on-the-fly without transferring the videos between the TVS-871 and desktop computers.

4K Ultra-High-Definition ready
See even more detail with 4K! The TVS-871's high quality hardware allows you to smoothly play 4K videos on an HDTV with Kodi local display through HDMI without heavily consuming system resources. Featuring Intel® HD Graphics, the TVS-871 delivers superior real-time 4K (H.264) and 1080p video transcoding to convert videos to universal formats that can be smoothly played on PCs, mobile devices and Smart TVs. It allows for multiple devices to simultaneously view different videos stored on the TVS-871 with on-the-fly hardware accelerated transcoding, saving your time to convert videos into different formats for different devices. With the benefit of offline transcoding, even when you can only connect to a low-speed Internet connection, you can still enjoy smooth video playback via File Station, Video Station, and the Qfile mobile app by selecting a pre-rendered lower resolution video, saving system resources of the TVS-871 for other applications. The TVS-871 also allows you to set a dedicated folder for automatic video transcoding.

Use your TVS-871 as a PC with exclusive QvPC Technology
QNAP's exclusive QvPC Technology consolidates a number of high-end technologies including VM integration, multimedia transcoding, HDMI output, cloud integration and NAS connection technologies, allowing users to operate the TVS-871 as a PC when they plug in a keyboard, mouse and monitor. With QvPC Technology, the TVS-871 is transformed into a cost-effective PC substitute for users to directly access stored data, run multiple applications using Windows/Linux/UNIX/Android-based VMs, surf the web on Google Chrome, enjoy 4K or 1080p videos with up to 7.1 channel audio with Kodi, monitor Surveillance Station in real time with local display, and much more.

Extend the functionality of the TVS-871 with virtualization
The Virtualization Station transforms the TVS-871 into a 2-in-a-box NAS that can function as an all-in-one NAS and a virtualization platform that supports multiple operating systems, fast virtual machine creation, virtual machine import/export, snapshot, and enables desktop operations on web browsers. With an easy-to-use interface, you can centrally manage all of the virtual machines created on the TVS-871 with minimal effort. You can also download VMs on demand from online VM markets and import them to TVS-871 without any complex procedure.

Full NAS encryption technology ensures data security
QNAP's full NAS encryption by volume-based technology effectively ensures data security by encrypting all of the files stored in the default shared folders on the TVS-871. Even if the TVS-871 is encrypted, all the files can still be accessible via Windows SMB/CIFS, iSCSI, and NFS protocols. Users without permission to access the TVS-871 will be unable to access the stored files, hence data security risks and privacy leaks can be avoided.

Intelligent Storage Manager
The QTS Storage Manager provides a secure and flexible way to manage volumes. This next-generation volume management offers powerful features such as storage pooling with multiple RAID group protection, thin provisioned volumes with Space Reclaim, block-level iSCSI LUN and online capacity expansion. The QTS Storage Manager neatly presents tools and options for managing system storage to simplify the process of NAS capacity expansion and QNAP storage expansion enclosure management.

Cross-platform file sharing, centralized data storage
The TVS-871 supports SMB/CIFS, NFS, and AFP protocols for file sharing across Windows, Mac, and Linux/UNIX networks.

Data, logs and ISO images of CDs and DVDs can be centrally stored on the Turbo NAS and protected by an integrated antivirus solution. The Windows AD and LDAP services enable system administrators to configure user permissions by using existing Windows AD server, LDAP server or NAS build-in LDAP services. The TVS-871 supports SAMBA v4 and can act as a Windows domain controller to manage privilege settings.

Well-rounded backup solutions to secure data
The QNAP NetBak Replicator supports real-time and scheduled data backup on Windows including Outlook email archiving. Apple Time Machine is also supported to provide Mac OS X users with a solution to effortlessly back up data to the TVS-871. The USB 3.0 port on the front panel of the TVS-871 features a one-touch-copy function for you to instantly back up data on external drives to the TVS-871 with just one click, or alternatively to back up data from the TVS-871 to external drives. A wide range of third-party backup software such as Acronis® True Image and Symantec® Backup Exec are also supported.

Disaster recovery solutions brings peace of mind
The TVS-871 offers various data recovery options. RTRR (Real-Time Remote Replication) supports real time or scheduled data backup to a remote Turbo NAS or FTP server and synchronizes files to a remote folder from a local folder with better backup efficiency and reduced backup time. The TVS-871 also supports rsync protocol to back up data to another remote server on a scheduled basis. Data can also be backed up to and restored from a range of cloud storage services, including Amazon® S3, Amazon Glacier, Microsoft® Azure, ElephantDrive®, Symform®, Dropbox® and Google® Drive.

Comprehensive security options
In an open network environment, business data may be exposed in a potential hack. The TVS-871 provides numerous security options, such as encrypted access, IP blocking, and more. Besides, IT administrators can control the access rights of each user to different folders, preventing unauthorized access to important files. The TVS-871 is validated with military level FIPS 140-2 AES 256-bit encryption, preventing sensitive business data from unauthorized access and breach even if the hard drives or the entire system were stolen.

Storage for comprehensive virtualization applications
The TVS-871 supports VMware® and Citrix®, and is compatible with Microsoft® Hyper-V™ and Windows Server 2012, benefiting flexible deployment and management in the virtualization environments. The TVS-871 supports VMware VAAI and Microsoft ODX to increase performance by offloading server loading for ESXi server and Hyper-V respectively, and supports QNAP vSphere Client plug-in and QNAP SMI-S provider with enhanced efficiency of operations and management in virtualization applications.

Optimize IT assets management with the IT Management Station
The IT Management Station, powered by Mandriva® Pulse, provides a flexible service for managing multi-OS and multi-site IT assets for business of all sizes. By installing the IT Management Station on the TVS-871, you can centrally manage multiple IT resources with numerous business applications including comprehensive inventory, centralized software deployment & updates, imaging, remote management & support, backup & restore, and more tasks with greater flexibility and productivity.

File synchronization across multiple devices
The Qsync utility turns your TVS-871 into a safe data center for file synchronization with a large storage capacity. Any file uploaded to the TVS-871 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 updated files on different devices. Qsync provides multiple ways of file synchronization and group file sharing, greatly enhancing the flexibility of collaboration.

Comprehensive surveillance solution providing 24/7 security
The TVS-871's Surveillance Station offers a professional surveillance solution with a user-friendly management interface, a wide range of over 2,700 compatible IP camera models, and expandable IP camera channel licenses. It supports real-time monitoring, video &audio recording and playback with a wide range of customizable settings. You can also install the Vmobile app on your iOS® or Android™ mobile devices to manage the monitoring channels anytime and anywhere to safeguard your office environment, or install the Vcam app to turn your mobile device into a network camera to instantly record any moment around you to your TVS-871.

Install-on-demand apps to extend NAS functionality

The TVS-871 has a built-in App Center that provides over 100 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. In addition, QNAP's development platform embraces the open-source spirit to enable developers to create their own apps, adding potentially limitless potential for the TVS-871.

Additional SMB-ready features

The TVS-871 supports various business applications as an all-in-one Turbo NAS with cost-efficiency.

Specifications:

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Specifications	
Product Code	TVS-871U-PT
CPU	TVS-871-PT-4G: Dual-core Intel G3250 3.2 GHz Processor
DRAM	System memory: 4 GB DDR3 RAM
	Memory module pre-installed: 2 GB x2
	Total memory slots: 2
	Memory expandable up to: 16 GB (8GB x2)
Flash Memory	512MB DOM
Hard Drive	8 x 3.5-inch SATA 6Gb/s, SATA 3Gb/s hard drive or 2.5-inch SATA, SSD hard drive
Hard Drive Tray	8 x hot-swappable and lockable tray
LAN Port	4 x Gigabit RJ-45 Ethernet port
	(Expandable up to 8 x 1 Gb LAN or 4 x 10 Gb + 4 x 1 Gb LAN by installing optional dual-port 10 Gb and 1 Gb network card)
LED Indicators	Status, USB, LAN
USB	3x USB 3.0 port (front: 1, rear: 2)
	2x USB 2.0 port (rear)
	Support USB printer, pen drive, USB hub, and USB UPS etc.
Buttons	System: Power button and reset button
Alarm Buzzer	System warning
Form Factor	Tower
Dimensions	185.2 (H) x 298.2 (W) x 235.4 (D) mm
	7.29 (H) x 11.74 (W) x 9.27 (D) inch
Weight	7.83 kg/ 17.26 lbs (Net)
	8.9 kg/ 19.62 lbs (Gross)
Sound Level (dB)	Sound pressure (LpAm) (by stander positions): 23.1 dB

Power Consumption (W)	TVS-871-PT-4G:
	HDD Standby: 45.1
	In Operation: 82.59
	(with 8 x WD WD20EFRX hard drive installed)
Temperature	0~40?C
Relative Humidity	5~95% non-condensing, wet bulb: 27?C.
Power Supply	Input: 100-240V AC, 50/60Hz
	Output: 350W
PCIe Slot	2 (1* PCIe Gen3 x8, 1* PCIe Gen2 x4)
Fan	2 x quiet cooling fan (12 cm, 12V DC)

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/TVS-871U-PT-QNAP-TVS-871-PT-TurboNAS-8-Bay-Network-Attached-Drive-p-117844.php

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