

# QNAP



Use your Turbo vNAS as a PC

**Flagship model**  
**TVS-1271U-RP-i7-32G**  
Powered by Quad-core Intel® Core™ i7-4790S  
3.2 GHz Processor 32 GB DDR3 RAM



High performance unified storage



# Turbo vNAS TVS-x71U Series

## Intel® Core® i7/i5/i3 and Pentium processors

Provides 3,300+ MB/s throughput and 172,000+ IOPS superior performance  
Two internal mSATA cache ports for IO acceleration  
Scalable design, up to 1088TB raw capacity

### TVS-x71U Turbo vNAS Series



TVS-1271U-RP-PT-4G | TVS-1271U-RP-i5-16G  
TVS-1271U-RP-i3-8G | TVS-1271U-RP-i7-32G



TVS-871U-RP-PT-4G | TVS-871U-RP-i5-8G  
TVS-871U-RP-i3-4G

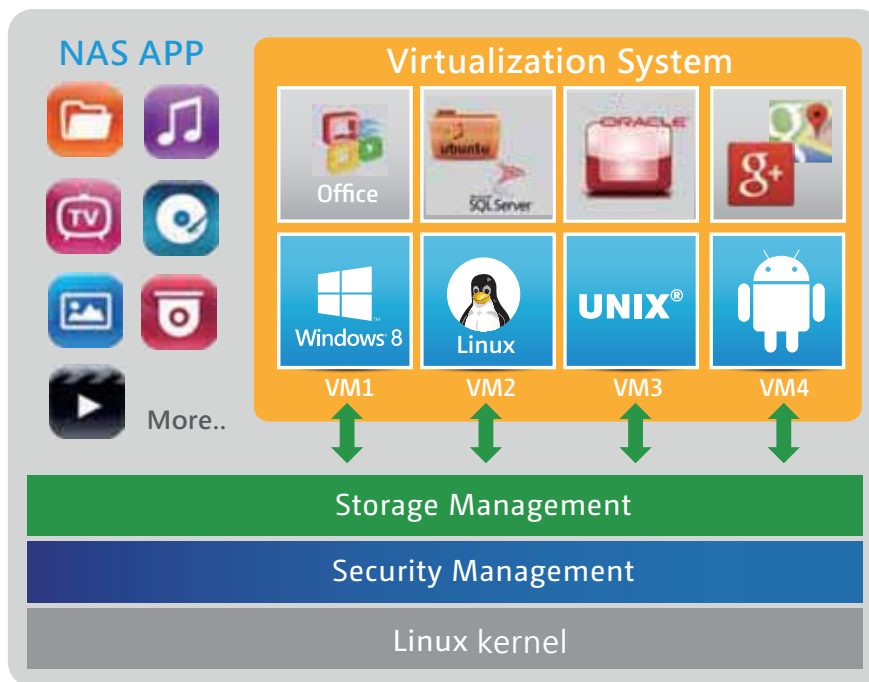
- Dual PCIe expansion (PCIe Gen3 x8/PCIe Gen2 x4) for a maximum of 4x 10GbE or 8x 1GbE ports
- Built-in QvPC (QNAP virtualized Personal Computer) technology: Use the Turbo vNAS as a PC
- Supports transcoding and playing back 4K videos
- The best storage solution for high-resolution file formats and video production workflows
- VMware®, Microsoft® Hyper-V, Citrix® Ready, and Microsoft® VDI compatible
- Optimized for file management, sharing and backing up business data (LUN backup)



## Virtualization Station



The TVS-x71U series supports Intel VT-x and virtual machine applications. Just download Virtualization Station from the App Center, and you can install & operate multiple operating systems including Windows, Linux, and UNIX. The virtual machines can be used in a variety of different ways to boost the functionality of your Turbo vNAS, just like having multiple computers with you.



Virtualization technology is normally used in enterprise IT environments, but with the growing needs of a digital office, virtualization is now our everyday applications. Many offices have printers, and when users want to print the documents stored on their Turbo vNAS and realized that the printer requires a Windows-only driver, they will need to boot up their PC just for this simple task.

Create multiple VMs on TVS-x71U



- QNAP QVM Desk turns a Turbo vNAS into an office PC



## Run Windows, Linux and Android virtual machines on a HDTV

Leveraging the virtualization technology, QNAP QVM Desk supports local display for a virtual interface and turns the Turbo vNAS into a PC when connected to a HDMI monitor, keyboard, and mouse. Any files on the TVS-x71U series can be opened using virtual machines running Windows, Android, Linux, and Unix through QVM Desk. You can also instantly switch between different virtual machines to meet your needs, just like using multiple PCs at the same time. Compared to the operations via a webpage, it's smoother, more secure, and worry-free to do on a Turbo vNAS. Even when the Internet connectivity is limited, you can still access data and run virtual machines on a Turbo vNAS.



Linux



Windows



Android



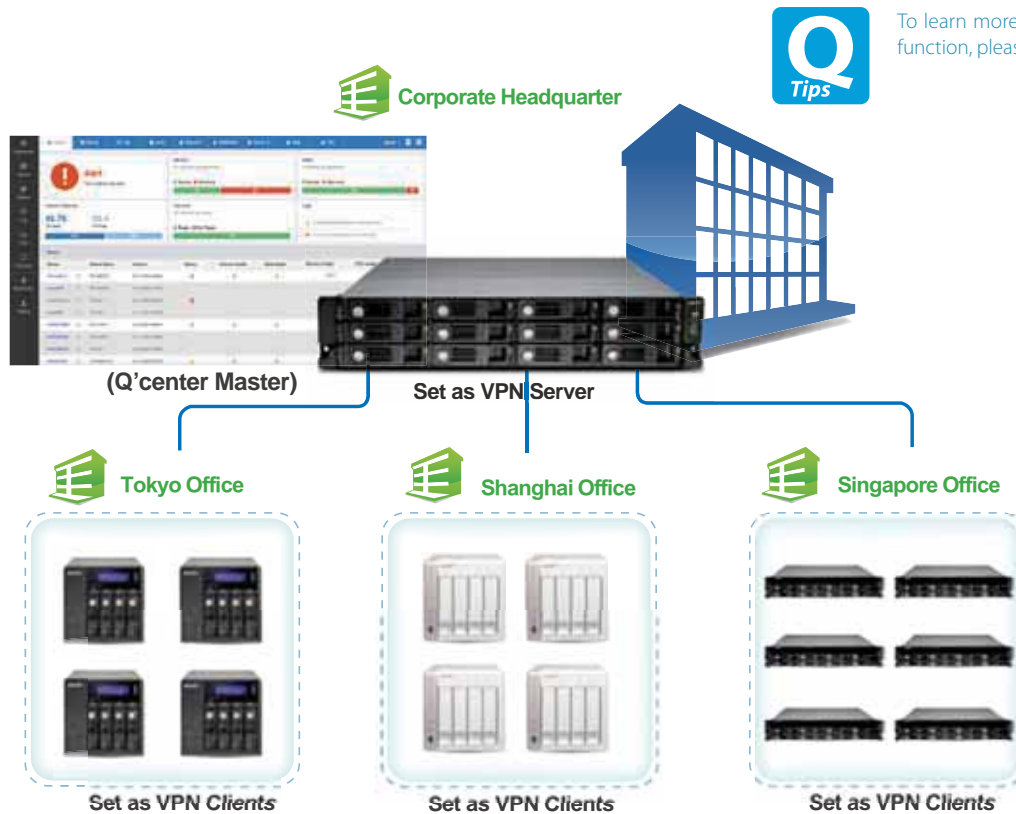
## Q'center CMS (Central Management System)



Previously, IT administrators need to log in to Turbo vNAS units individually to check their status. The QNAP Q'center CMS (Central Management System) offers a platform to centrally manage multiple NAS units. You only need to install Q'center on the master NAS and set all other Turbo vNAS units as managed stations. You can also monitor and update firmware for all Turbo vNAS units at once with this centralized management utility.

## Q'center Network Architecture

In order to use Q'center to monitor multiple Turbo vNAS units, you have to set up the master Turbo vNAS and other managed devices in the same network environment. QTS 4.1.2 provides the VPN server and VPN client function, making it easy for IT managers to establish the internal network architecture for Q'center deployment. Just set the master device as a VPN server and other devices the VPN clients, and the internal network environment will be established by VPN protocol automatically.



To learn more about QNAP's VPN function, please turn to Page 42.

## The Best Utility for IT Administrators

### ■ Increase IT Management Efficiency

#### 1. User-Friendly Management Interface

Not only can you monitor the system status for all Turbo vNAS units, but you can also view their firmware information and system logs. You no longer need to log in to NAS units individually for such information. Besides viewing system information, IT administrators can update the firmware for all Turbo vNAS units at once with a single click.



# Hardware Specifications



	TVS-871U-RP			TVS-1271U-RP			
NAS	TVS-871U-RP-PT-4G	TVS-871U-RP-i3-4G	TVS-871U-RP-i5-8G	TVS-1271U-RP-PT-4G	TVS-1271U-RP-i3-8G	TVS-1271U-RP-i5-16G	TVS-1271U-RP-i7-32G
CPU	Dual-core Intel® Pentium® G3250 3.1 GHz Processor	Dual-core Intel® Core™ i3-4150 3.5 GHz Processor	Quad-core Intel® Core™ i5-4590S 3.0 GHz Processor	Dual-core Intel® Pentium® G3250 3.1 GHz Processor	Dual-core Intel® Core™ i3-4150 3.5 GHz Processor	Quad-core Intel® Core™ i5-4590S 3.0 GHz Processor	Quad-core Intel® Core™ i7-4790S 3.2 GHz Processor
Memory	4GB DDR3 (Max. 32GB)	4GB DDR3 (Max. 32GB)	8GB DDR3 (Max. 32GB)	4GB DDR3 (Max. 32GB)	8GB DDR3 (Max. 32GB)	16GB DDR3 (Max. 32GB)	32GB DDR3 (Max. 32GB)
Flash	512M						
USB 2.0/3.0	4/4						
Hard Drive	8 x 3.5-inch SATA 6Gbps, SATA 3Gbps hard drive or 2.5-inch SATA, SSD hard drive			12 x 3.5-inch SATA 6Gbps, SATA 3Gbps hard drive or 2.5-inch SATA, SSD hard drive			
Maximum Raw Capacity	64 TB			96 TB			
Gigabit Ethernet port	4 (Max. 8)			4 (Max. 8)			
10GbE Ethernet port	Optional						
PCIe Slot	2 (1* PCIe Gen.3 x8, 1* PCIe Gen.2 x4)			2 (1* PCIe Gen.3 x8, 1* PCIe Gen.2 x4)			
Dimensions (H)x(W)x(D)	89(H) x 482(W) x 534(D) mm 3.5(H) x 18.98(W) x 21.02(D) inch			89(H) x 482(W) x 534(D) mm 3.5(H) x 18.98(W) x 21.02(D) inch			
Weight	Net weight: 12.14 kg/ 26.76 lb ; Gros weight: 15.84 kg/ 34.92 lb			Net weight: 11.74 kg/ 25.88 lb ; Gross weight: 15.34 kg/ 33.82 lb			
Power Supply	Input: 100-240V AC, 50/60Hz Output: 250W			Input: 100-240V~, 50-60Hz, 7A-3.5A Output: 500W			
Fan	3 x 7 cm smart cooling fan			3 x 7 cm smart cooling fan			
Sound Level	41.9 dB			45.0 dB			
Power Consumption (W)	HDD Standby: 70.87, In Operation: 131.96	HDD Standby: 69.35, In Operation: 128.72	HDD Standby: 80.94, In Operation: 131.44	HDD Standby: 88.88, In Operation: 173.38	HDD Standby: 87.89, In Operation: 176.27	HDD Standby: 88.91, In Operation: 174.64	HDD Standby: 89.82, In Operation: 176.42

\* Design and specifications are subject to change without notice.

## Accessories

Category	Order P/N	Description
RAID Expansion Enclosure	 REXP-1600U-RP	Rackmount 16-bay RAID Expansion Enclosure
	 REXP-1200U-RP	Rackmount 12-bay RAID Expansion Enclosure
SAS Card	 SAS-6G2E-U	Dual-wide-port storage expansion card, SAS 6Gbps
Cable	 CAB-SAS10M-8088	Mini SAS external cable (SFF-8088 to SFF-8088), 1.0
	 CAB-SAS05M-8088	Mini SAS external cable (SFF-8088 to SFF-8088), 0.5 m
mSATA Flash	 FLASH-256GB-MSATA	Two 128GB mSATA flash modules
Rail Kit	 RAIL-B01	B01 series (Chassis) rail kit kg
10GbE Network	 LAN-10G2T-U	Dual-port 10 GBase-T Network Expansion Card
	 LAN-1G2T-U	Dual-port 1 GbE Network Expansion Card
Memory	 RAM-4GDR3-LD-1600	4GB DDR3 RAM, 1600 MHz, long-DIMM
	 RAM-8GDR3-LD-1600	8GB DDR3 RAM, 1600 MHz, long-DIMM