ComX Computers
Product Specification Sheet

TS-EC880PRO

QNAP TS-EC880PRO 8-Bay TurboNAS



Specifications

Overview:

Powerful nas with intel xeon quad-core cpu for breakthrough performance

- 10gbe-ready, over 2,000 mb/s throughput and 226,000 iops breakthrough performance
- Ssd caching beneficial to iops demanding applications
- Scalable design, over 240tb raw capacity

Features:

Simple, secure, scalable and reliable storage

- Qnap ts-ec880 pro, featuring the easy-to-use qts operating system, provides a reliable and scalable nas solution to fulfill data backup, file synchronization and remote access.
- The ts-ec880 pro is 10gbe-ready,
- Delivers exceptional performance, and supports cross-platform file sharing, comprehensive backup solutions,
- Iscsi and virtualization applications, and many practical business functions,
- Making it the ideal choice for smbs to secure important business data.
- It also includes abundant multimedia applications backed by its powerful hardware specifications.
- 2,000+ mb/s throughput and 226,000+ iops
- Two internal cache ports and up to 4 ssds for caching
- Scalable design, up to 240tb raw capacity
- Virtualization-ready, centralized data storage, backup, sharing and disaster recovery

Qts - simple and efficient

- Thanks to qts's intuitive user interface, system operations of the ts-ec880 pro are smooth and handy. Its intelligent desktop allows you to find the 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 working efficiency.

Business apps in one place

- All the apps frequently used in business environments are organized on the desktop for your quick access.

Breakthrough performance

- The ts-ec880 pro supports 6gbps hard drives driving over 2,000 mb/s throughput and 226,000 iops*. Featuring with intel xeon e3 v3 quad-core processor and 2gb ddr3 ecc ram, the ts-ec880 pro greatly enhances efficiency of cpu-consuming tasks and serves more concurrent tasks at the same time.

Test environment:

- 2 client pc configuration: intel(r) core(tm) i7-2600 cpu, 16gb ddr3 ram, windows 7 professional 64-bit, dual-port intel x520 10gbe server adapter, iometer sequential read and write.

Nas configuration:

- Ocz vertex4 vtx4-25sat3-128g ssds with raid 6 configuration, qnap lan-10g2t-u dual-port 10gbase-t network adapter*1

Internal cache port for io acceleration

- The ts-ec880 pro supports two on-board msata internal cache ports, and up to 4 ssds can be used for caching. By installing msata flash modules (optional purchase), the iops performance of storage volumes can remarkably boost. It is perfect for improving overall workflow of random iops demanding applications such as database and virtualization. The internal cache port design reserves the space of hard drive tray for more storage capacity.

10gbe ready

- The ts-ec880 pro offers four inbuilt gigabit ethernet ports and supports 10 gigabit high speed network by installing 10gbe network adapter. The 10gbe-ready ts-ec880 pro delivers lightening data throughput. Coupled with the support for large storage capacity, the ts-ec880 pro is perfect for data centers to storage big data and excel in fast data transmission, and for editing large size videos on-the-fly without transferring the videos between the ts-ec880 pro and desktop computers.

Seamless capacity expansion

- The ts-ec880 pro supports online capacity expansion by cascading multiple qnap raid expansion enclosures to meet the needs of growing business data. With the qnap scale-up solution, raw storage capacity can be gradually expanded to 240tb. It is especially useful for large data applications, such as video surveillance, data archiving, and tv broadcast storage, to name few.

Powerful qnap flexible volume

- Qnap flexible volume provides a more secure and flexible way to store the nas data. This next generation volume offers powerful features such as storage pooling with multiple raid group protection, thin provisioned volume with space reclaim, block-level iscsi lun, and online capacity expansion. The qts storage manager neatly presents tools and options for managing system storage which simplifies the process of nas capacity expansion and qnap raid expansion enclosure management.

Cross-platform file sharing, centralized data storage

- The ts-ec880 pro supports smb/cifs, nfs, and afp protocols for file sharing across windows, mac, linux/unix networks. Data, logs and iso image of cds and dvds can be centralized store in the nas and protected by 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 service.

Well-rounded backup solutions to secure data

- The ts-ec880 pro offers well-rounded backup solutions as a reliable backup center. Qnap netbak replicator supports scheduled and real-time data backup on windows os. Mac time machine is also supported to provide mac os x users with an effortless solution to back up data to the ts-ec880 pro.

Disaster recovery solutions brings peace of mind

- The ts-ec880 pro 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 ts-ec880 pro also supports rsync protocol to back up data to another remote server on scheduling basis. Besides, data can be backed up to cloud storage, such as amazon s3, amazon glacier, microsoft azure, elephantdrive, symform, dropbox and google drive, and restored to the ts-ec880 pro anytime.

Comprehensive security options

- In the open network environment, business data might be exposed in potential hack. The ts-ec880 pro provides numerous security options, such as encrypted access, ip blocking, and so on. Besides, it administrators can control the access rights of each user to different folders, preventing unauthorized access to important files. The ts-ec880 pro is validated with military level fips 140-2 aes 256-bit encryption, preventing the sensitive business data from unauthorized access and breach even if the hard disk drives or the entire system were stolen.

Storage for comprehensive virtualization applications

- The ts-ec880 pro is vmware ready, citrix ready, compatible with microsoft hyper-v certification and windows server 2012, benefiting flexible deployment and management in the virtualization environments. The ts-ec880 pro 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.

Run multiple os' on the ts-ec880 pro

- The virtualization station transforms the ts-ec880 pro into a 2-in-a-box nas that can function as an all-in-one nas and a virtualization platform supporting multiple operating systems, fast virtual machine creation, virtual machine import/export, snapshot, and enables desktop operations on web browser. With the easy-to-use interface, you can centrally manage all virtual machines created on the ts-ec880 pro with least efforts. Furthermore, you can download vms on demand from the online vm markets and import them to ts-ec880 pro to use directly without any complex procedure.

Optimize it assets management with the it management station

- The it management station, powered by mandriva pulse, provides a flexible it system management solution for managing multi-os and multi-site it assets for businesses of all sizes. By installing the it management station on the ts-ec880 pro, 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.

Highly-efficient storage solution for video editing

- Digital film and video production produces volumes of data that require high performance raid storage with sustainable throughput to balance with the demanding output of video editing. The ts-ec880 pro fulfills storage and video editing needs with a high speed 10gbe network interface. Digital videos can be quickly stored and edited on the ts-ec880 pro directly over the network.

File synchronization across multiple devices

- The qsync utility turns your ts-ec880 pro into a safe data center for file synchronization with large storage capacity. Any file uploaded to the ts-ec880 pro 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 with 24/7 security

- The ts-ec880 pro surveillance station is a professional surveillance solution with a wide range of over 2,600 compatible ip camera models and expandable ip camera channel licenses. It supports real-time monitoring, video and audio recording and playback with flexible options to customize. You can also install the vmobile app on your ios or android mobile devices to manage the monitoring channels anytime and anywhere, and safeguard your office environment.

Additional smb-ready features

- The ts-ec880 pro supports various business applications as an all-in-one turbo nas with cost-efficiency.
- The turbo nas supports ftp server to share large size files, coming with user-defined settings including bandwidth limitation, number of connections, and write-only permission.
- The turbo nas supports web server which allows numerous websites built on the same server conveniently. Administrators can manage up to 32 websites on the single one turbo nas with reduced it cost.
- The turbo nas supports radius server which provides centralized authorization management for computers to connect and use a network service.

- The turbo nas supports vpn server which provides an easy way for it administrators to build up a secure private network and allows the staff to log on from outside the office and access business resources securely such as files and internet connections.
- The turbo nas supports printer server to send remote printing request over the internet (max. 3 usb printers), and supports ipp (internet printing protocol), samba, print job management and bonjour printing for mac os x.
- The turbo nas supports surveillance station to connect and manage multiple ip cameras remotely, including real-time monitoring, video recording, playback, and event notifications.

Install-on-demand apps extend nas features

- The ts-ec880 pro has built in app center providing various install-on-demand apps developed by qnap and third-party developers, including backup/sync, business, content management, communications, download, entertainment, and so on.
- It's also a central place to manage and update installed apps.
- Besides, qnap's development platform brings forth the open-source spirit to welcome program developers to develop various applications, adding values to the ts-ec880 pro for extensive opportunities.

Specifications:

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Specifications	
Product Code	TS-EC880PRO
CPU	Intel Xeon E3-1200 v3 Family 3.4 GHz Quad Core Processor
Memory	System memory: 2 GB DDR3 ECC RAM
	Memory module pre-installed: 2 GB x1
	Total memory slots: 4
	Memory expandable up to: 32 GB (8GB x4)
	Note:
	1. When upgrading RAM to more than 26GB, the original 2GB RAM modules must be removed.
	2. For the information of RAM module installation and compatible NAS models, please refer to the
Flash Memory	512MB DOM
Internal Cache Port	Two mSATA port on board for read caching
	Note: The standard system is shipped without mSATA flash. For the optional mSATA flash, please visit
Hard Drive	8 x 3.5-inch SATA 6Gbps/3Gbps hard drive or 2.5-inch SATA, 6Gbps/3Gbps hard drive SSD hard drive
	NOTE:
	1. The standard system is shipped without hard drives.
	2. For the hard drive compatibility list, please visit
Hard Drive Tray	8 x hot-swappable and lockable tray

LAN Port	4 x Gigabit RJ-45 Ethernet port
	(Expandable up to 6 x 1 Gb LAN or 2 x 10 Gb + 4 x 1 Gb LAN by installing optional dual-port 10 Gb and 1 Gb network card)
	Note:
	1. For the optional network card compatibility list, please visit
	2. For the information of network card installation, please refer to chapter 6 in the .
LED Indicators	Status, LAN, USB, eSATA and 10 GbE
USB	3x USB 3.0 port (1 front, 2 rear)
	6x 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	217.5(H) x 327(W) x 321.2(D) mm
	8.56(H) x 12.8(W) x 12.65(D) inch
Weight	Net weight (NAS only) : 12.52 kg/27.61 lb
	Gross weight (with packing and accessories) : 19.75 kg/43.54 lb
Sound Level (dB)	Standby: 30.3 dB
	In operation: 31.2 dB
	(with 8 x 1TB hard drives installed)
Power Consumption (W)	Sleep mode: 68W
	In Operation: 130W
	(with 8 x 1TB hard drives 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	1 (1* PCIe Gen3 x8)
Fan	2 x 12 cm smart cooling fan

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/TS-EC880PRO-QNAP-TS-EC880PRO-8-Bay-TurboNAS-p-97900.php

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