ComX Computers
Product Specification Sheet

NS-QTSEC1280U+R

QNap TS-EC1280U 2U rackmount multi-bay NAS (Support RAID) with 12x SATA 2.5"/3.5" + 2x mSATA

Product Overview

QNap TS-EC1280U 2U rackmount multi-bay NAS + 400W redundant PSU (Support RAID 0 / 1 / 5 / 6 / 10 / 50 / 60 / JBod) with 12x hot-swappable SATA 2.5"/3.5" + 2x mSATA Cache SSD - with Intel Xeon E3-1200 v3 family Quad-Core Processor, 4GB (2GBX2) DDR3 ECC (Up to 32GB) + 512MB Flash, Slide-out Motherboard tray, AES 256-bit Encryption, QTS Software with App center + Qmobile apps, Virtualized Desktop operations, Real-Time / Offline Video transcoding, Cross-platform Sync + share, NAS management tools (Alerts / Resource Monitor / Wol / Scheduled power / S.M.A.R.T / advanced HHS / Logs), 2x PCI-e expansion slot (with pre-installed 10GbE PCI-e Adapter), 4x Gigabit + 2x 10gigabit + 4x USB 3.0 (Gen1 5Gbps) + 4x USB 2.0 + 1x HDMI, with 4 x 60 mm fan









Specifications

Overview:

QNAP TS-EC1280U, 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-EC1280U 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.

- 3,500+ MB/s throughput and 390,000+ IOPS

- Two internal cache ports and up to 4 SSDs for caching
- Scalable design, up to 840TB raw capacity
- Virtualization-ready, centralized data storage, backup, sharing and disaster recovery

Features:

QTS - Simple and efficient

Thanks to QTSs intuitive user interface, system operations of the TS-EC1280U 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.

Qsirch - A smarter, faster way to search

Quickly and easily find documents, photos, videos, and music with Qsirch, QNAP's new built-in NAS search application lets you find what you need by real-time, natural search. Simply type in as much as you know about what you are trying to find, including bits of the file name or even words/phrases in the document, and Qsirch will display a list of matches, complete with thumbnails, as you type. Qsirch even remembers your search history so you can quickly navigate to files you've previously searched for. Qsirch is a huge productivity boost - it greatly reduces the amount of time spent looking for files on the NAS so you can focus on other tasks.

Note: 2GB RAM (4GB or more RAM is recommended for optimum performance) and QTS 4.1 or newer firmware is required.

Breakthrough performance

The TS-EC1280U supports 6Gbps hard drives driving over 3,500 MB/s throughput and 390,000 IOPS*. Featuring with Intel Xeon E3 v3 Quad-Core Processor and 4 GB DDR3 ECC RAM, the TS-EC1280U greatly enhances efficiency of CPU-consuming tasks and serves more concurrent tasks at the same time.

*Tested in QNAP Lab. Figures could vary by environment.

Internal cache port for IO acceleration

The TS-EC1280U 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.

*Instead of installing the mSATA in the internal cache port, SSDs are supported to be installed in the hard drive tray. Visit SSD cache

Removable motherboard drawer for easy maintenance

With the TS-EC1280U's removable motherboard drawer, IT administrators have easier access in upgrading/installing components such as RAM, the internal cache and 10GbE adapter. The motherboard itself can be removed and replaced without needing to remove the heavy TS-EC1280U from the rack cabinet, making it especially useful in maintaining the TS-EC1280U in data centers with multiple rack cabinets.

Note: Power-off is necessary before removing the motherboard drawer. It is not hot-pluggable.

10GbE ready

The TS-EC1280U offers four inbuilt Gigabit Ethernet ports and supports 10 Gigabit high speed network by installing 10GbE network adapter. The 10GbE-ready TS-EC1280U delivers lightening data throughput. Coupled with the support for large storage capacity, the TS-EC1280U 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-EC1280U and desktop computers.

Seamless capacity expansion

The TS-EC1280U 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 840TB. 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-EC1280U 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-EC1280U 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-EC1280U.

Disaster recovery solutions brings peace of mind

The TS-EC1280U 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-EC1280U 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, Dropbox and Google Cloud Storage, and restored to the TS-EC1280U anytime.

Comprehensive security options

In the open network environment, business data might be exposed in potential hack. The TS-EC1280U 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-EC1280U 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-EC1280U 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-EC1280U supports VMware VAAI and Microsoft ODX to increase performance by offloading server loading for ESXi 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-EC1280U

The Virtualization Station transforms the TS-EC1280U 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-EC1280U with least efforts. Furthermore, you can download VMs on demand from the online VM markets and import them to TS-EC1280U to use directly without any complex procedure.

Note: Pre-installed with 4GB RAM x1. You can upgrade the RAM to 32GB to run 8 virtual machines.

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-EC1280U fulfills storage and video editing needs with a high speed 10GbE network interface. Digital videos can be quickly stored and edited on the TS-EC1280U directly over the network.

File synchronization across multiple devices

The Qsync utility turns your TS-EC1280U into a safe data center for file synchronization with large storage capacity. Any file uploaded to the TS-EC1280U 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-EC1280U 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.

Specifications:

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Specifications	
Product Code	NS-QTSEC1280U+R
CPU	Intel Xeon E3-1200 v3 Family 3.4 GHz Quad Core Processor
Memory	System memory: 4 GB DDR3 ECC RAM
	Memory module pre-installed: 4 GB x1
	Total memory slots: 4
	Memory expandable up to: 32 GB (8GB x4)
	Note:
	1. When upgrading RAM to more than 28GB, the original 4GB RAM modules must be removed.
	2. For the information of RAM module installation and compatible NAS models, please refer to the QNAP RAM Module Installation Guide
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
	http://shop.qnap.com/
Hard Drive	12 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 Compatibility list
Hard Drive Tray	12 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)
	Note:
	1. For the optional network card compatibility list, please visit Compatibility list of Expansion Card
	2. For the information of network card installation, please refer to chapter 6 in the Turbo NAS Hardware Manual.

LED Indicators	Status, 10 GbE, LAN, eSATA, storage expansion port status
USB	4x USB 3.2 Gen 1 port (rear)
	4x 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	2U, Rackmount
Dimensions	88(H) x 442.5(W) x 530.5(D) mm
	3.46(H) x 17.42(W) x 20.89(D) inch
Weight	Net weight (NAS only) : 14.18 kg/ 31.26 lb
	Gross weight (with packing and accessories) : 21.41 kg/ 47.20 lb
Sound Level	Sound pressure (LpAm) :55.3 dB(A)
Power Consumption (W)	Sleep mode: 80.41
	In Operation: 166.58 W
	(with 12 x 1TB hard drive installed)
Temperature	0-40 degreesC
Relative Humidity	5~95% non-condensing, wet bulb: 27 degreesC.
Power Supply	Redundant power:
	Input: 47-63 Hz, 100-127V~/ 8A, 200-240V/ 4A
	Output: 400W
PCIe Slot	2 (1* PCIe Gen3 x8, 1* PCIe Gen3 x4)
Fan	4 x 6 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/NS-QTSEC1280U-R-QNap-TS-EC1280U-2U-rackmount-multi-bay-NAS-Support-RAID-with-12x-p-245272.php

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