ComX Computers
Product Specification Sheet

SS-EC2479U-SAS-RP

QNAP 24 Bay 2U Rack SATA/SAS NAS





Specifications

Overview:

QNAP SS-EC2479U-SAS-RP, featuring the easy-to-use QTS 4.0 operating system, provides a reliable and scalable NAS solution to fulfill data backup, file synchronization and remote access. The SS-EC2479U-SAS-RP supports 2.5" SAS hard drives delivering exceptional performance coupled with full duplex functionality, 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.

24-bay 2.5" SAS/SATA-enabled unified storage

- 3,000+ MB/s throughput and 400,000+ IOPS
- Scalable design, maximum 88 hard drives, up to 352TB raw capacity
- SSD caching, thin-provisioned volume
- Virtualization Ready, centralized data storage, backup, sharing and disaster recovery

Simple, Secure, Scalable and Reliable Storage
QNAP SS-EC2479U-SAS-RP, featuring the easy-to-use QTS 4.0 operating system, provides a reliable and scalable NAS solution to fulfill data backup, file synchronization and remote access. The SS-EC2479U-SAS-RP supports 2.5 SAS hard drives delivering exceptional performance coupled with full duplex functionality, 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.

Breakthrough performance
The SS-EC2479U-SAS-RP supports SAS 6Gbps hard drives driving over 3,000 MB/s throughput and 400,000 IOPS*. Featuring with Intel Xeon 3.4GHz Quad Core Processor and 8GB DDR3 ECC RAM, the SS-EC2479U-SAS-RP greatly enhances efficiency of CPU-consuming tasks and serves more concurrent tasks at the same time.

Testing Environment:
4 Client PC configurations: 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 configurations:

OCZ Vertex4 VTX4-25SAT3-128G SSDs with RAID 5 configuration, QNAP LAN-10G2T-U dual-port 10GBase-T network adapter*2

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

Storage Manager

- Shared Folders
- File Station
- Backup Station
- Virtualization

Domain Security

- System Logs
- App Center
- myQNAPcloud
- Qsync

QTS 4.0 - Simple and efficient
Thanks to QTS 4.0's intuitive user interface, system operations of the SS-EC2479U-SAS-RP 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.

SSD cache acceleration
The SS-EC2479U-SAS-RP supports SSD caching which can greatly boost IOPS performance of storage volumes. It is perfect for improving overall workflow of IOPS demanding applications such as virtualization.

10GbE ready
The SS-EC2479U-SAS-RP offers four inbuilt Gigabit Ethernet ports and supports 10 Gigabit high speed network by installing 10GbE network adapter. The 10GbE-reay SS-EC2479U-SAS-RP delivers lightening data throughput. Coupled with the support for large storage capacity, the SS-EC2479U-SAS-RP 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 SS-EC2479U-SAS-RP and desktop computers.

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 SS-EC2479U-SAS-RP 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 SS-EC2479U-SAS-RP 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 SS-EC2479U-SAS-RP.

Disaster recovery solutions brings peace of mind
The SS-EC2479U-SAS-RP 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 SS-EC2479U-SAS-RP 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, ElephantDrive, Symform, Dropbox and Google Drive, and restored to the SS-EC2479U-SAS-RP anytime.

Comprehensive security options
In the open network environment, business data might be exposed in potential hack. The SS-EC2479U-SAS-RP 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 SS-EC2479U-SAS-RP 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 SS-EC2479U-SAS-RP 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 SS-EC2479U-SAS-RP supports VMware VAAI and Microsoft ODX to increase performance by offloading ESXi server loading, and supports QNAP vSphere Client plug-in and QNAP SMI-S provider with enhanced efficiency of operations and management in virtualization applications.

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 SS-EC2479U-SAS-RP fulfills storage and video editing needs with a high speed 10GbE network interface. Digital videos can be quickly stored and edited on the SS-EC2479U-SAS-RP directly over the network.

HIPAA compliant storage solution
While medical data (e.g ePHI) constantly increases, IT administrators are required to develop a strategy of strong storage platforms within their medical organizations. The SS-EC2479U-SAS-RP meets the electronic requirements of HIPAA for storing PHI data by providing a base to protect the confidentiality and security of ndividually identifiable health information

File synchronization across multiple devices
Feel Dropbox short of storage to satisfy your needs? The Qsync utility turns your SS-EC2479U-SAS-RP into a safe data center for file synchronization with large storage capacity. Any file uploaded to the SS-EC2479U-SAS-RP 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 SS-EC2479U-SAS-RP Surveillance Station Pro offers a professional surveillance solution with the user-friendly NVR (network video recorder) management interface, a wide range of over 1,200 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 SS-EC2479U-SAS-RP 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 SS-EC2479U-SAS-RP 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 SS-EC2479U-SAS-RP for extensive opportunities.

RAM-4GDR3EC-LD-1600
4GB DDR3 ECC RAM, 1600 MHz, long-DIMM

Specifications:

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Specifications	
Product Code	SS-EC2479U-SAS-RP
CPU	Quad Core Intel Xeon E3-1245 v2 Processor 3.4 GHz
Memory	System memory: 8 GB DDR3 ECC RAM
	Memory module pre-installed: 4 GB x2
	Total memory slots: 4
	Memory expandable up to: 32 GB (8GB x4)
	Note:
	1. When upgrading RAM to more than 24GB, 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
Hard Drive	24 x 2.5-inch SAS / SATA 6Gb / s, SAS / SATA 3Gb / s hard drive or SSD hard drive
	NOTE:
	1. The standard system is shipped without hard drives.
	2. For the hard drive compatibility list, please visit http: / / www.qnap.com / compatibility
Hard Drive Tray	24 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 http: / / www.qnap.com / en / index.php?lang=en&sn=4061
	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	2x USB 3.0 port (rear)
	4x USB 2.0 port (rear)
	Support USB printer, pen drive, USB hub, and USB UPS etc.
Storage Expansion Port	1 (rear)
Buttons	System: Power button and reset button
Alarm Buzzer	System warning
Form Factor	2U, Rackmount
Dimensions	88(H) x 439(W) x 520(D) mm
	3.46(H) x 17.28(W) x 20.47(D) inch
Weight	10.8 kg / 23.81 lb (Net)
	16.28 kg / 35.89 lb (Gross)
Sound Level (dB)	Sound pressure (LpAm) (by stander positions): 46.3 dB
	(with 24 x Seagate ST9300653SS hard drive installed)
Power Consumption (W)	HDD Standby: 138.7 W
	In Operation: 270 W
	(with 24 x Seagate ST9300653SS hard drive installed)
Temperature	0-40?C
Humidity	5~95% RH non-condensing, wet bulb: 27?C
Power Supply	Input: 100-240V AC, 50-60Hz
	Output: 600W
Expansion Slot	2 (one PCIe Gen2 x4, one PCIe Gen2 x8)
Fan	3 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/SS-EC2479U-SAS-RP-QNAP-24-Bay-2U-Rack-SATA-SAS-NAS-p-90521.php

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