ComX Computers
Product Specification Sheet

TS-EC879U-RP

Qnap TS-EC897U-RP NAS - 8 Bay Turbo NAS Drive

Product Overview

QNAP TS-EC879U-RP Turbo NAS - 8-Bay, SerialATA 6Gbps, XEON E3-1225 , 4GB DDRIII ECC RAM, 4x Gigabit LAN Port, Optional 10GbE, USB 3.0, Firmware 3.6, 2U











Specifications

Features:

- As the data value and volume of business data continue to rise, corporations need high-performance storage solutions which are secure, reliable, and easy to manage. The QNAP TS-EC879U-RP, which serves as both IP-SAN (iSCSI) and NAS, can be easily utilized in different business and enterprise applications such as backup center, disaster recovery, file sharing, virtualization, and video editing storage.

- Highlights
NAS, iSCSI, IP-SAN storage solution
VMware, Citrix and Hyper-V ready
High performance, secure, reliable, and simple
10 GbE ready reaching over 1, 000 MB/s and 100, 000 IOPS
Multi-core processor, DDR3, SATA 6Gb/s, and USB 3.0

- Secure
Data might seem insecure being open in a network, but the QNAP TS-EC879U-RP offers a variety of security options such as encrypted access, IP filtering, policy-based automatic IP blocking, and more. In addition, full control of the NAS is offered down to the user and folder access rights to determine who can access the NAS and what can or cannot be accessed. The TS-EC879U-RP is packed with security features to stop all unauthorized data access such as AES-256 volume-based encryption. The AES-256 volume-based encryption prevents sensitive data from unauthorized access and data-breach even if the hard drives or the device is stolen.

- Reliable
The TS-EC879U-RP is reliable with built-in safety precautions to safeguard all data from any unforeseen problems. With multiple built-in features to guarantee no interruptions to the work flow of a business, the TS-EC879U-RP is an efficient asset. The advanced RAID configurations and hot-swap capabilities are included to give RAID performance, protection and reduced rebuilding time. Moreover, the dual OS embedded on the DOM architecture ensures the system will boot up. If one of the two operating systems fails, the healthy operating system will boot up and operate normally while repairing the failed operating system. The dual Gigabit LAN ports can also be configured for failover which allows the NAS server to sustain the failure of one network port and still provide continuous services.

- Simple
Setting up local or remote access with the TS-EC879U-RP is painless and does not require any IT skills. All setup processes have been simplified so that most of the process is either automatic or can be completed by an installation wizard. The user-friendly web GUI allows administrators to easily manage the NAS so there is no need for an extensive knowledge of complex commands. Simple management tools such as instant SMS/Email alert, the hard drive S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) feature, and system resource monitor are provided to keep administrators up-to-date on their NAS at all times.

- High Performance
The TS-EC879U-RP features Intel Xeon E3-1225 3.1GHz Processor, 4GB DDR3 ECC memory, 10 Gigabit network capability, and 6Gb/s SATA. Even the most demanding requirements in data center or corporate networks can be satisfied by the TS-EC879U-RP. With outstanding data transfer rate of over 1, 000 MB/s data throughput and 100, 000 IOPS 1, intensive business applications and concurrent tasks can be easily fulfilled.

- NAS + iSCSI/IP-SAN Solution for Server Virtualization
With increasing virtualization of IT resources, the need for high performance storage is more essential than ever. The TS-EC879U-RP offers class-leading system architecture matched with 10 GbE networking performance designed to meet the needs of demanding server virtualization, such as VMware, Citrix, and Windows Hyper-V. 10 GbE network speeds greatly increase the agility of data transmission in a virtualized environment intensifying NFS and iSCSI connection performance.

- High Network Bandwidth
The TS-EC879U-RP offers network expansion options which includes dual-port 1 GbE and dual-port 10 GbE network expansion cards, to aggregate and boost network performance. The TS-EC879U-RP includes two Gigabit (GbE) LAN ports which can be expanded to four GbE LAN ports or two 10 GbE LAN ports plus two GbE ports.

- ECC RAM for High Reliability

The ECC (Error Correction Codes) RAM of the Turbo NAS can detect and correct errors introduced during transmission or storage of data. It offers more protection in mission critical applications.

- Blazing Fast Data Backup via USB 3.0

The TS-EC879U-RP features USB 3.0 ports for high speed backup to external hard drives. EXT3, EXT4, NTFS, and HFS+ file systems are supported to ensure compatibility with Windows, Mac OS X, and Linux operating systems.

- File System QNAP NAS Other NAS

EXT4, EXT3 QNAP Supported QNAP Supported
FAT32 QNAP Supported QNAP Supported
High-speed NTFS QNAP Supported Other NAS not Supported
HFS+ QNAP Supported Other NAS not Supported
Other NAS not Supported Lower speed

- Primary Applications

Centralized Storage and File Sharing

- Cross-platform Sharing with Antivirus

The TS-EC879U-RP supports SMB/CIFS, NFS, and AFP protocols for file sharing across Windows, Mac, Linux/UNIX networks. User accounts and shared folders can be created via the user-friendly web-based interface without IT expertise. The integrated antivirus solution for the Turbo NAS ensures business continuity by offering detection against the latest viruses, malware, worms, and Trojan horses.

- Windows Active Directory (AD) and LDAP Directory Service

The Windows AD and LDAP (Lightweight Directory Access Protocol) directory service features enable the system administrator to retrieve user accounts from Windows AD or Linux LDAP server to the TS-EC879U-RP reducing time and effort in account setup. Users can use the same login name and password to access the TS-EC879U-RP.

- Shared Folder Aggregation

Conveniently connect to the shared folders of other servers on Microsoft Networking through the "portal folder" on the TS-EC879U-RP. This reduces the hassle of logging in to different servers one by one.

- ISO File Archiving and Sharing

The TS-EC879U-RP supports mounting ISO images of CD and DVD discs for network sharing folders for data archiving, storage, and sharing. This feature saves space from storing the physical discs, reduces the risk of data loss caused by long term use of the discs, and enhances the performance of data sharing on a business network.

- Centralized Log Monitoring

A central repository of log data from various network devices allows efficient management and security auditing in a businesses. QNAP Syslog server allows the IT administrator to effectively collect and store logs of other network devices in the Turbo NAS.

- Backup Center for Business

The TS-EC879U-RP offers a complete backup solution for businesses with QNAP QBack/NetBak Replicator which supports real-time and scheduled data backup from Windows PCs, Apple Time Machine backup from Mac OS, and third party backup software such as Acronis True Image and Symantec Backup Exec.

- Disaster Recovery Solution

The TS-EC879U-RP offers users peace of mind, business continuity, and high availability of data by providing the ability to recover their data from disasters.

- Real-time Remote Replication

Real-time Remote Replication (RTRR) provides real-time or scheduled data replication between the TS-EC879U-RP and a remote QNAP NAS, an FTP server, or an external drive.

- iSCSI LUN Backup and Restore

The Turbo NAS has taken iSCSI LUN backup/restore to a whole new level with snapshot technology. The IT administrator can use the LUN snapshot to back up contents in the LUN to various storage destinations, including Windows shared folders via SMB/CIFS, Linux shared folders via NFS, or local shared folders on the Turbo NAS.

- Cloud Storage Backup

Get ready to send private data to the clouds! The TS-EC879U-RP supports Amazon S3 and ElephantDrive cloud storage backup which have several backup modes including real-time, scheduled backup and versioning control so that the data can

be restored from any point of time. With ElephantDrive cloud storage can be monitored through a web browser. An extra set of all of the data stored will always be available, so remote data recovery is quick and simple.

- iSCSI and Virtualization Deployment

The TS-EC879U-RP is fully VMware and Citrix ready and Windows Hyper-V compliant.

- NAS + iSCSI Combo Solution

The TS-EC879U-RP can serve as a NAS for file sharing and iSCSI storage concurrently.

- Flexible Management

The TS-EC879U-RP supports multiple LUNs (Logical Unit Numbers) and iSCSI targets. LUNs can be flexibly mapped to, unmapped from, and switched among different iSCSI targets.

- Secure Deployment

Designed with CHAP authentication and LUN masking, the advanced ACL (Access Control List) offers the capability to block unauthorized access from the initiators.

- Designed for Virtualized and Clustered Environments

Compared with a high cost Fibre Channel SAN, the TS-EC879U-RP is an affordable system that can be deployed as a storage center for virtualized and clustered server environments, such as VMware and Microsoft Windows Failover Cluster.

- SPC-3 Persistent Reservation Supported

The built-in iSCSI service supports enterprise-level features such as SPC-3 persistent reservation for clustering in VMware and Windows Server 2008. The administrator can set up Microsoft Failover Cluster environment, use Cluster Shared Volume for Hyper-V, and execute virtual machine live migration between Hyper-V hosts.

- Advanced MPIO and MC/S Supported

With the support of MPIO (Multipath Input Output) and MC/S (Multiple Connections per Session) on the Turbo NAS, users can connect to the iSCSI targets on the TS-EC879U-RP using two or more network interfaces from their server with failover and load balancing. Furthermore, with MC/S settings better data transmission performance is achieved.

- 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-EC879U-RP fulfills storage and video editing needs with a high speed 10 GbE network interface. Digital videos can be quickly stored and edited on the TS-EC879U-RP directly over the network.

- IP-SAN Storage

The built-in iSCSI feature provides an affordable IP-SAN (Storage Area Network) alternative for business. Compared with Fibre Channel SAN, the total investment is significantly lowered.

- FIPS 140-2 Certified AES 256-bit Volume-based Data Encryption

The disk volume with FIPS 140-2 certified AES 256-bit encryption can only be accessed by an authorized encryption password or key. This prevents the sensitive government or businesses data on the Turbo NAS from unauthorized access and breach even if the hard disk drives or the entire system were stolen.

- Advanced Folder Permissions

Advanced folder permissions allow users to configure folder/subfolder access to the TS-EC879U-RP. With this feature enabled, users can manage the folder permissions from Microsoft Windows or the web-based management interface of the TS-EC879U-RP without complicated procedures.

- Advantages

Private subfolder management within a public shared folder
Ownership protection on root shared folders
Clean folder structure for group sharing and IT management
Special permissions to dedicated user to perform data backup
Secure Measures for Data Storage and Access

- Policy-based Unauthorized IP Blocking

The administrator can allow, deny or auto block specified IP address or network domain which attempt to connect to the TS-EC879U-RP via SSH, Telnet, HTTP(S), FTP, Samba, or AFP.

- Remote Login

The TS-EC879U-RP supports remote login by SSH (secure shell) or Telnet connection.

- SSL Security (HTTPS)
The TS-EC879U-RP supports HTTPS connection. The administrator can upload a secure certificate and RSA private key in X.509PEM format issued by a trusted provider to allow access the TS-EC879U-RP by secure SSL login.

- Secure FTP
The TS-EC879U-RP offers secure data transfer with SSL/TLS (explicit) encryption. Passive FTP port range setup is also supported.

- Encrypted Remote Replication by Rsync
The data on the TS-EC879U-RP can be backed up to or from another QNAP Turbo NAS or Rsync server over the network securely.

- Shared Folder Management
Administrator can select to hide or show the network shared folders of the TS-EC879U-RP on Windows network.

- User Authority Management
Administrator can create user ID and password, and define the authority and quota for each user.

- Abundant Business Features
The TS-EC879U-RP supports a multiuse of server business applications.

- QNAP File Server
The TS-879U-RP allows file sharing cross Windows, Mac, Linux, and UNIX platforms. It also supports WebDAV for easy access to the shared folders via HTTP/HTTPS protocol remotely.

- QNAP FTP Server
Administrator can establish an FTP server with the TS-879U-RPand share files conveniently with colleagues or customers.

- QNAP Backup Server
The TS-EC879U-RP offers complete backup solutions with Apple Time Machine support, remote replication to an Rsync server, Windows client backup software QNAP NetBak Replicator, and third party backup software support.

- QNAP Web Server
Multiple websites can be hosted on the TS-EC879U-RP with the built-in web server and virtual host feature.

- QNAP RADIUS Server
RADIUS server centralizes and consolidates user authentication by maintaining a list of user accounts that are authorized for remote network access through dial-up equipment, Wi-Fi access point, or VPN connections.

- QNAP Syslog Server
By collecting and storing logs of other network devices in the Turbo NAS with QNAP's Syslog server support, the IT administrator can easily monitor the status of these devices, and further troubleshoot when necessary.

- QNAP Print Server
The TS-EC879U-RP offers cross-platform printer sharing over the network and remote printing over the Internet (max. 3 USB printers). IPP (Internet Printing Protocol), print job management, and Bonjour printing for Mac OS X are also supported.

- QNAP Surveillance Station
Administrator can monitor supported IP cameras via the TS-EC879U-RP and set up a video surveillance system with comprehensive monitoring, recording, and playback features.

- QNAP IPv6
The TS-EC879U-RP supports IPv6 (Internet Protocol Version 6) which makes the NAS a dual-stack IP host running IPv4 and IPv6 at the same time.

- Advanced RAID Management with Hot-swap Design
RAID is an advanced feature that the QNAP Turbo NAS offers to enhance data protection and performance. The QNAP Turbo NAS has a scalable design in addition to supporting various levels of disk configurations such as RAID 0, 1, 5, 5+hot spare, 6, 6+hot spare, 10, 10+hotspare, single disk, and JBOD.

- Global Hot Spare
The Global Hot Spare feature allows the administrator to share spare drives with multiple RAID volumes on the TS-EC879U-RP. When a hard drive fails in any RAID volume, the global hot-spare drive will automatically replace the failed drive to prevent data from being lost. Compared with a local spare drive, the Global Hot Spare function offers more efficient use of spare drives.

- Multiple LAN Deployment

The TS-EC879U-RP supports multiple bonding modes: Balance-rr (Round-Robin), Active Backup, Balance XOR, Broadcast, IEEE 802.3ad, Balance-tlb (Adaptive Transmit Load Balancing), and Balance-alb (Adaptive Load Balancing).

- Failover

The LAN ports of the Turbo NAS can be configured in failover mode which allows the TS-EC879U-RP to sustain the failure of one network port and provide continuous services. QNAP

- Load Balancing

The LAN ports of theTS-EC879U-RP can be configured in load balancing mode for bandwidth aggregation to boost file transfer speeds. It works with managed Ethernet switch with 802.3ad configured. QNAP

- Multi-IP Settings

The TS-879U-RP can be deployed with multiple different IP settings for sharing among different workgroups in two different subnets. QNAP

- System Management Tools

The TS-EC879U-RP offers various features to help the administrator manage the system efficiently.

- QNAP Instant SMS, Email and Windows Live Messenger Alert

Configure the SMTP server, SMS server, and Windows Live Messenger account settings on the TS-EC879U-RP in order to receive instant system warning or error messages by email, SMS and Windows Messenger.

- QNAP SNMP (Simple Network Management Protocol)

Collect the information, warning, or errors of the TS-EC879U-RP and send warnings up to 3 SNMP servers for centralized management and real-time monitoring.

- QNAP Wake on LAN

Enable this option to power on the TS-EC879U-RP remotely by Wake on LAN. Wake on LAN helps the administrator manage the NAS conveniently.

- QNAP Scheduled Power on/off

Create schedules to automatically turn on, turn off, or restart the TS-EC879U-RP. Up to 15 schedules can be set.

- QNAP S.M.A.R.T. & Advanced Hard Drive Health Scan (HHS)

Self-Monitoring Analysis and Reporting Technology (S.M.A.R.T.) helps the administrator monitor hard disk status. Moreover, the TS-EC879U-RP supports Hard Drive Health Scan (HHS) for disk checking and bad blocks scanning.

- Comprehensive Event Logs

Detailed logs of file-level access to the TS-EC879U-RP via Samba, iSCSI, FTP, AFP, HTTP, HTTPS, Telnet, and SSH, and networking services accessed by online users can all be recorded.

- QNAP Available QPKG Software Plugins

Maximize the usage of the TS-EC879U-RP by installing additional QPKG software plugins developed by the users and communities worldwide.

Package Contents:

- TS-879U-RP
- CD-ROM
- Ethernet cable x 4
- Power cord X 2
- Flat head screw x 32
- (for 2.5" HDD)
- Flat head screw x 32
- (for 3.5" HDD)
- Quick Installation Guide

Specifications:

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Specifications	
Product Code	TS-EC879U-RP
CPU	Quad Core Intel Xeon E3-1225 3.1GHz Processor
DRAM	4 GB DDR3 ECC RAM
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 (Optional dual-port 10 Gb network card is supported)
	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, 10 GbE, LAN, eSATA, hard drives
USB	2x USB 3.0 port (rear)
	4x USB 2.0 port (rear)
	Support USB printer, pen drive, USB hub, and USB UPS etc.
eSATA	2 (rear)
Buttons	System: Power button and reset button
LCD Panel	Mono-LCD display with backlight
	Enter and Select buttons for configuration
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	Net weight: 12.52 kg/27.61 lb
	Gross weight: 20.76 kg/45.78 lb
Sound Level (dB)	Standby: 54.57 dB
	In operation: 54.6 dB
	(with 8 x 1TB hard drives installed)
Power Consumption (W)	Sleep mode: 68W
	In Operation: 132W
	(with 8 x 1TB HDD installed)
Temperature	0~40?C
Relative Humidity	0~90%
Power Supply	Input: 100-240V AC, 47-63Hz
	Output: 300W
Expansion Slot	2 (for network and storage expansion)
VGA	Reserved for system maintenance

Fan	3 x 6 cm smart cooling fan
Operating System	Embedded Linux
Supported Clients	Windows XP, Vista, Windows 7 (32/64-bit), Windows Server 2003/2008 R2
	Apple Mac OS X
	Linux & UNIX
Supported Browsers	Microsoft Internet Explorer 8, 9
	Mozilla Firefox 8, 9, 10
	Apple Safari 4, 5
	Google Chrome
Multilingual Support	Chinese (Traditional & Simplified), Czech, Danish, Dutch, English, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Norwegian, Polish, Portuguese (Brazil), Romanian, Russian, Spanish, Swedish, Thai, Turkish
File System	Internal Hard Drive: EXT3, EXT4
	External Hard Drive: EXT3, EXT4, NTFS, FAT32, HFS+
Networking	TCP/IP (IPv4 & IPv6: Dual Stack)
	Multiple Gigabit NICs with Jumbo Frame
	Failover
	Multi-IP Settings
	Port Trunking/NIC Teaming (Modes: Balance-rr, Active Backup, Balance XOR, Broadcast, IEEE 802.3ad/Link Aggregation, Balance-tlb and Balance-alb)
	Service Binding based on Network Interfaces
	Virtual LAN (VLAN)
	DHCP Client, DHCP Server
	Protocols: CIFS/SMB, AFP (v3.3), NFS(v3), FTP, FTPS, SFTP, TFTP, HTTP(S), Telnet, SSH, iSCSI, SNMP, SMTP, and SMSC
	UPnP & Bonjour Discovery
	USB Wi-Fi Adapter Support
Backup Solution	Real-time Remote Replication (RTRR)
	Works as Both RTRR Server & Client with Bandwidth Control
	Real-time & Scheduled Backup
	Encryption, Compression, File Filter, and Transfer Rate Limitation
	Block-level Remote Replication
	Works as Both Rsync Server & Client with Bandwidth Control
	Encrypted Replication between QNAP NAS Servers
	Desktop Backup by QNAP NetBak Replicator for Windows
	Apple Time Machine Support with Backup Management
	Data Backup to Multiple External Storage Devices
	Data Backup to Cloud Storage (Amazon S3, ElephantDrive, and Symform)

Security	IP Filter and Policy-based Automatic IP Blocking
	Network Access Protection with Auto-blocking: SSH, Telnet, HTTP(S), FTP, CIFS/SMB, AFP
	Encrypted Access: HTTPS, FTP with SSL/TLS (Explicit), SSH/SFTP (admin only), Encrypted Remote Replication between QNAP NAS Servers (Rsync over SSH)
	CIFS Host Access Control for Shared Folders
	Antivirus Protection
	FIPS 140-2 Validated AES 256-bit Volume-based Data Encryption*
	AES 256-bit External Drive Encryption*
	Importable SSL Certificate
	Instant Alert via Email, SMS, Instant Messaging (Windows Live Messenger), and Buzzer
Disk Management	Single Disk, JBOD, RAID 0, 1, 5, 5 + Hot Spare, 6, 6 + Hot Spare, 10, 10 + Hot Spare
	Online RAID Capacity Expansion & Online RAID Level Migration
	Bad Block Scan & Hard Drive S.M.A.R.T.
	Global Hot Spare Drive (4-bay NAS and above)
	RAID Recovery
	Bitmap Support
iSCSI (IP SAN)	iSCSI Target
	Multi-LUNs per Target
	Up to 256 Targets/LUNs Combined
	Supports LUN Mapping & Masking
	Online LUN Capacity Expansion
	Supports SPC-3 Persistent Reservation
	Supports MPIO & MC/S
	iSCSI LUN Backup, One-time Snapshot, and Restore
	iSCSI Connection and Management by QNAP Finder (Windows)
	Virtual Disk Drive (via iSCSI Initiator)
	Stack Chaining Master
	Max No. of Virtual Disk Drives: 8
Server Virtualization & Clustering	Supports VMware vSphere
	Supports Citrix XenServer
	Supports Windows Server 2008 R2 Hyper-V & Failover Clustering
Power Management	Wake on LAN
	Internal Hard Drive Standby Mode
	Scheduled Power on/off (Max 15 Settings)
	Automatic Power on after Power Recovery
	USB and Network UPS Support with SNMP Management

Access Right Management	Max No. of Users: 4, 096
	Max No. of User Groups: 512
	Max No. of Network Shares: 512
	Batch Users Creation
	Import/Export Users
	User Quota Management
	Subfolder Permissions Support for CIFS/SMB, AFP, FTP and Web File Manager
Domain Authentication Integration	Microsoft Active Directory (AD)
	LDAP Server
	LDAP Client
	Domain Users Login via CIFS/SMB, AFP, FTP, and Web File Manager
MyCloudNAS Service	Private Cloud Storage and Sharing
	Free Host Name Registration (DDNS)
	Auto Router Configuration (via UPnP)
	MyCloudNAS Connect for Easy Connection (Windows utility)
Storage Plug & Play	Windows Software: QNAP Finder
	Create and Map Shared Folders
	Create and Connect to iSCSI Target/LUN
Web Administration	AJAX-based User Interface
	Smart Fan Control
	Dynamic DNS (DDNS)
	SNMP (v2 & v3)
	Resource Monitor
	Network Recycle Bin for File Deletion via CIFS/SMB and AFP
	Comprehensive Logs (Events & Connection)
	Syslog Client
	Firmware Live Update
	System Settings Backup and Restore
	Restore to Factory Default

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-EC879U-RP-Qnap-TS-EC897U-RP-NAS-8-Bay-Turbo-NAS-Drive-p-112019.php

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