



Reliable Rackmount NAS

QNAP TS-459U-RP NAS

By Muzaaffar Ismail

● Network Attached Storage or NAS solutions aren't just for SMBs who don't have a more traditional rack mounted server room or data center. Rack mounted NAS solutions are being offered by practically every vendor in the market as they offer a more energy efficient alternative to traditional rack mounted storage servers. The QNAP TS-459U-RP is one of these rack-mounted NAS solutions, featuring four 3.5" hard disk drive bays and numerous reliable redundancy features.

The TS-459U-RP fits the standard 1U rack mount form factor and should fit within any standard rack mount setup. As such the outer casing is a simple unadorned metal chassis with a matte black plastic front for the four 3.5" hard disk drive bays. Each bay can be locked individually and removed as required. Each bay tray can install a single 3.5" SATA hard disk drive or 2.5" SATA hard disk drive. Shipped without any hard disk



Featuring two removable power supply units and lots of ports, this NAS stays online regardless of hardware failure



The menu is very easy to use and shouldn't be a stretch even for inexperienced IT staff

drives, this NAS uses an Intel Atom dual-core processor and 1GB of DDR2 RAM.

Features-wise, the TS-459U-RP offers two removable power supply units that can be swapped-out even while the NAS is running. This way, even if one power supply unit fails or needs to be replaced, the NAS can continue running. This NAS has plenty of external options with its five USB2 ports, two eSATA ports and two Gigabit Ethernet RJ-45 LAN ports. While these LAN ports offer support for two different subnets, you can also use them for a single subnet to improve performance through load balancing or better reliability through failover. The NAS has three cooling fans along with alarm buzzers for hardware failure.

Once you've mounted the TS-459U-RP, connected the required cables and installed the hard disk drives, setup is very simple and very fast. Initially the fans will rev-up but they will quieten down after a while and the NAS will begin the setup. Since it has four bays, this NAS can support Single Disk, JBOD, RAID 0, RAID 1, RAID 5, RAID 5+Hot Spare and RAID 6 modes, all of which can be set from the easy to access browser-based interface. Transfer times were excellent with a 1GB file only taking 32 seconds, the fastest performance time we've seen for a NAS device yet.

The TS-459U-RP supports file sharing across multiple platforms including Windows, Mac OS and Linux / Unix systems and also has plenty of NAS server functions as well. This includes a web server, multimedia server, download station, IP Surveillance station, iTunes server, Apache server, MySQL server and support for QPKG plug-ins. Since it targets enterprise users, the NAS is also VMware ready, supports iSCSI and Citrix Xen Server along with the ability to manage up to 4096 individual user accounts.

Overall, the QNAP TS-459U-RP is an excellent four bay rack mount NAS server

with plenty of features and functions, even more so than a traditional server. As a plus, this NAS is more energy efficient and offers multiple failover functions including two Gigabit LAN ports, two hotswappable PSUs and four hotswappable hard disk drive trays.

SPECIFICATIONS

Drive Bays	OS	Ports	HDD Trays:	Price
4x 3.5" SATA 4x 2.5" SATA	Web-based	USB2, Network, eSATA	Hot swappable and lockable tray	RM5699

CPU: Intel Atom Processor (Dual-Core)
DRAM: 1GB DDR2 RAM
Flash Memory: 512MB DOM
LAN: 2x RJ-45 Gigabit Ethernet
External HDD: 5x USB2, 2x eSATA
Alarm Buzzer: System Warning
Buttons: Power button, USB One-Touch-Backup Button, Reset button
RAID Modes: Single disk, JBOD, RAID 0 / 1 / 5 / 5 + Hot Spare / 6
Power Supply: External power adapter
Features: 2x Removable PSU, 1x VGA port
Dimensions: 44(H) x 439(W) x 499(D) mm
Weight: 7.63kg
Warranty: 1-year
Contact: SIS Distribution (M) Sdn Bhd
Telephone: (03) 5569 8878
URL: www.qnap.com

Available at

PLAZA LOW YAT
shopping centre

Verdict:

9.0



Features: 9.0
Performance: 9.0
Value: 8.5

VERDICT SCORES ARE OUT OF 10.

Superb four-bay rack mounted NAS for the energy efficient enterprise