QNAP TS-464U-RP NAS Stovas (1U) „Intel® Celeron®“ N5095 8 GB DDR4 0 TB QNAP Turbo System Aliuminis, Juoda

Gamintojas: **QNAP** · Modelis: **TS-464U-RP-8G** · EAN: **4711103082201** · Prekės kodas: **1015762**



1 728,90 €

Kaina su PVM

Be PVM: **1 428,84 €**

Sandėlyje

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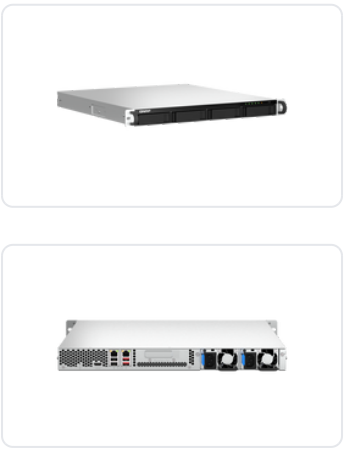
Pagrindinės savybės

- ✓ Smulkusis ir vidutinis verslas NAS Stovas (1U) Aliuminis, Juoda
- ✓ QNAP Turbo System 5,0,1
- ✓ Palaikomų saugojimo tvarkyklių skaičius: 4 HDD & SSD „Serial ATA II“, „Serial ATA III“
- ✓ „Intel® Celeron®“ N5095 2 GHz Intel® UHD Graphics
- ✓ 8 DDR4 Atminties lizdai: 2 SO-DIMM
- ✓ Ethernet LAN jungtis DHCP serveris Jumbo Frames palaikymas iSCSI palaikymas Wake-on-LAN pasirengimas
- ✓ Aušinimo tipas: Aktyvus
- ✓ Atsarginio atkūrimo funkcijos: „Cloud“, iSCSI LUN 250 W



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Aprašymas

Powered by an Intel® Celeron® N5105/N5095 quad-core processor (burst up to 2.9GHz), the TS-464U-RP features two 2.5GbE RJ45 ports and Port Trunking for up to 5Gbps combined bandwidth. The built-in 4K HDMI output allows for multimedia and virtual machine display. With a PCIe Gen 3 slot, the TS-464U-RP provides flexibility in extending NAS functionality, allowing you to install various cards: a 10GbE/5GbE network card, QM2 card for M.2 SSD caching, or Edge TPU for AI image recognition. The TS-464U-RP also supports AES 256-bit encryption to ensure the confidentiality of sensitive business data without affecting system performance. The TS-464U-RP also features a redundant power supply to ensure maximum system uptime.

Quad-core high performance and up to 16GB RAM

The TS-464U-RP is powered by an Intel Celeron N5105 / N5095 quad-core processor and supports up to 16 GB DDR4 memory, two 2.5GbE ports and SATA 6 Gb/s drives. The integrated Intel® AES-NI encryption engine also helps protect confidential data without impacting system performance.

Streamline large file transfers and video editing with 2.5GbE

The TS-464U-RP comes with two 2.5GbE RJ45 (2.5G/1G/100M) LAN ports that allow you to use existing CAT5e cables to upgrade network speeds from 1 Gigabit to 2.5 Gigabit. The dual 2.5GbE ports also support Port Trunking for up to 5 Gbps transmission speeds, improving the efficiency of bandwidth-hungry business applications such as large file transfers, fast backup/restore, and multimedia transfer & editing.

Future-proof your IT infrastructure for high-speed networks

The TS-464U-RP is ideally matched with QNAP’s managed and unmanaged 2.5GbE/10GbE switches to form high-speed, secure, and scalable network environments without going over budget. QNAP also provide 2.5GbE/5GbE/10GbE PCIe cards and USB 5GbE adapters for Windows®/Linux® workstations, allowing you to easily build a high-speed network environment for productive team collaboration.

Enhance productivity with multiple USB ports

With two USB 3.2 Gen 2 (10Gbps) ports and two USB 2.0 (480Mbps) ports, you can quickly backup and transfer large files to/from the TS-464U-RP. UPS, and other compatible USB devices can also be connected for greater functionality and application potential.

Abundant I/O capabilities with PCIe expansion

The TS-464U-RP has one PCIe Gen 3 x2 slot that allow for installing various expansion cards for expanding application potential.

SSD Caching and Auto Tiering for Optimized Storage Efficiency

The TS-464U-RP supports SSD caching to improve the workflow of random IOPS demanding applications such as virtualization. Qtier™ Technology empowers the TS-464U-RP with auto tiering that continuously optimizes storage utilization across high-performance SSD and high-capacity SATA drives. Qtier™ 2.0 features IO-awareness that empowers SSD tiered storage with a cache-like reserved space to handle burst I/O in real time, greatly maximizing the advantages of SSD.

Direct 4K HDMI output for multimedia and virtual machine display

The TS-464U-RP features Intel® UHD Graphics that supports dual-channel hardware decoding and real-time transcoding*. The HDMI 1.4b output supports up to 4K (3840 x 2160p) @60Hz, providing great benefits for applications like video production/editing or industrial design that demands high resolution and color realism as well as intensive media storage, transfer, and display. By connecting the TS-464U-RP to an HDMI display, you can directly watch multimedia content saved on the NAS, or use the TS-464U-RP as a versatile workstation by directly outputting virtual machines from Virtualization Station or Ubuntu Linux Station.

Faster image identification with integrated Intel® OpenVINO™ AI engine.
With integrated Intel® OpenVINO™ AI computing resources, the TS-464U-RP accelerates AI image recognition performance without impacting other

applications or services. QNAP AI Core primarily works with the QuMagie application.

QuMagie photo management

Easy-to-use photo management solution that integrates AI image recognition and intelligent classification for your collection.

QTS 5, Fast, smooth, and easy-to-use!

The TS-464U-RP comes with the QTS 5 operating system as standard, providing a next-generation usage experience with an updated system kernel, optimized user interface, and advanced security features.

Brighter. Smoother. You'll like it.
When navigating QTS 5, you will notice a finer attention to detail for a superior browsing experience. Enjoy a smoother NAS experience, comfortable visual design, and find your favorite apps quicker.

Get started with the notice board

When performing first-time installation, the notice board guides you through the setup process. Simply follow the step-by-step instructions for a quick and easy setup.

Smooth and reactive user interface

Whether clicking buttons, switching between apps, expanding/collapsing windows – every action is much smoother. The search bar in the main menu also assists in quickly finding desired apps.

Comprehensive backup and disaster recovery solution

The TS-464U-RP supports various apps that cover all your backup needs. Practice safe IT habits by regularly backing up files and device content, allowing them to be easily restored when needed.

PC/Laptop backup

For Windows®, install NetBak Replicator to back up your PC to QNAP NAS. In macOS®, just set up the built-in Time Machine® to secure your data.

Remote backup for NAS

Hybrid Backup Sync makes it easy to back up data from a TS-464U-RP to another QNAP NAS or remote server to fulfill your 3-2-1 backup strategy.

VM backup

Enjoy license-free VMware® and Hyper-V VM backup with source-side incremental backup, global deduplication, and recovery compression.

SaaS backup

Safeguard enterprise cloud data by backing up/syncing files, emails, calendars, and contacts from Google™ Workspace and Microsoft® Office 365® to the NAS.

Cloud backup for NAS

Hybrid Backup Sync supports mainstream cloud storage for NAS data backup. For backup to object cloud storage, VJBOD Cloud is especially useful to reduce bandwidth usage and backup time.

QuDedup technology

Hybrid Backup Sync eliminates redundant data at the source and then backs up the deduplicated data, helping to save time and storage costs while providing efficient multi-version backups.

Multi-version snapshots mitigate ransomware threats

The TS-464U-RP supports block-based snapshots that record the state of the system at any time. It helps protect data, which can be restored back to a specific point of time, greatly helping in mitigating the threat of ransomware.

Volume and LUN snapshots

Take snapshots in seconds and revert the entire volume/LUN back to a specific point in time to prevent loss of important data.

Instantly restore snapshots

Snapshot content can be quickly restored to a local NAS, or restored on a folder/file basis to a local/remote NAS or cloud storage. You can also conveniently view and restore snapshots from the client side.

Back up snapshots

Multiply data protection by backing up snapshot files! Replicate volume/LUN snapshots in the TS-464U-RP to a remote NAS (Snapshot Replica) by copying only the changes made. This helps save time & bandwidth, and can be run manually or on a scheduled basis.

All-in-one solution for hosting virtual machines and containers

By running multiple virtual machines and containers on the TS-464U-RP, you can deploy multi-tenant environments and applications to increase management efficiency and save hardware costs. Coupled with the Network & Virtual Switch app that boosts interoperability between virtual machines, containers, QNAP NAS, and other physical devices on the network, you can flexibly allocate physical and virtual network resources to simplify network deployment.

Virtualization Station

Run multiple Windows®, Linux®, UNIX®, Android™, and QuTScloud virtual machines and access them via a web browser or Virtual Network Computing (VNC). Businesses can run virtualized server applications on a single NAS without needing additional physical servers.

Conainer Station

Experience Docker®, LXD, and Kata Containers lightweight virtualization technologies, download apps from the built-in Docker Hub Registry®, import/export containers, and create abundant microservices.

Linux Station

Run Linux® applications (including apps from the Software Center) directly on the NAS and remotely access the Linux® desktop from a web browser. The open-source Linux® platform is also ideal for Internet of Things development.

Comprehensive security and privilege settings

The TS-464U-RP is loaded with flexible privilege settings and security measures. Besides IP blocking, 2-step verification, HTTPS connection, there are more apps that help ensure optimal NAS protection against threats like malware and hackers.

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myQNAPcloud secures remote access

myQNAPcloud allows convenient connection to the TS-464U-RP through the Internet without any complex DDNS settings. To ensure your remote access service is secure, myQNAPcloud strengthens keys on SSL Certificates to 2048-bits.

Simplified privilege settings

The TS-464U-RP supports comprehensive access right settings for shared folders, Azure Active Directory Domain Services (Azure AD DS), LDAP, and Windows ACL to help IT staff efficiently manage user accounts and access rights for multiple NAS systems.

QuFirewall protection

Supports IPv6, firewall access lists, and GeoIP filtering to restrict access based on geographical locations for higher NAS network security.

Superior security with QVPN

A virtual private network (VPN) allows secure access to network resources and services across public networks. QVPN supports creating a VPN client, using the TS-464U-RP as a VPN server, and WireGuard® VPN service with an easy-to-use interface for setting up a secure connection.

QuWAN SD-WAN

To facilitate digital transformation, multi-site expansion and remote working, QuWAN SD-WAN helps automatically mesh multi-site VPN. It features IPsec encryption and cloud-centric management, allowing secure multi-site network including QNAP NAS and VMware ESXi platforms.

Security Counselor

A security portal for the TS-464U-RP to check for weaknesses and offer recommendations for enhancing NAS security. It also integrates anti-virus and anti-malware scanning software.

Malware Remover

Regularly scan your TS-464U-RP using the latest malware definitions. If infected files are detected, they will be immediately removed to ensure NAS data security.

The best file storage and collaboration center

The TS-464U-RP integrates rich apps for storing, managing, synchronizing, searching, and archiving files. It supports SMB/CIFS, AFP, and NFS protocols for streamlined file sharing across Windows®, Mac®, and Linux®/UNIX®, and provides the smartest NAS solution for professionally managing your files.

File Station

Manage, access, and share all the files in the TS-464U-RP and view snapshots files – all from your web browser. You can also easily mount remote NAS folders and cloud storage.

Qsync

Make any file uploaded to a TS-464U-RP available to linked devices, such as computers, laptops and mobile devices. You can sync shared folders and team folders for group file sharing to enhance the flexibility of team projects and collaboration.

Qsirch

QNAP’s powerful, Google-like search tool helps you quickly find images, music, videos, documents, and emails by keywords, color, and more search conditions. It also supports Qfiling to perform one-time or automatic archival tasks based on your search criteria.

Qfiling

Automate your file organization – all you need to do is categorize files, set a schedule, and Qfiling will do the rest. Qfiling also enables smart recycling that instantly moves filtered files to the Recycle Bin.

Smart surveillance solution for 24/7 security

QVR Elite is QNAP’s subscription-based smart surveillance solution, allowing you to easily build a surveillance system with lower TCO and higher scalability. Recordings are saved as MP4 files, allowing playback on nearly every device. QVR Elite also integrates QNAP AI-based solutions to build smart facial recognition for retail and door access systems with QNAP NAS. You can arrange a dedicated, independent storage space for surveillance data on the TS-464U-RP and enjoy simplified camera management, storage space allocation, camera live viewing and playback.

Flexible and economical storage expansion

QNAP provides easy ways to expand your storage capacity. Here are several ways to expand your TS-464U-RP storage as needed to accommodate data and business growth.

Attach QNAP expansion enclosures

Connect expansion enclosures to the TS-464U-RP, and manage NAS storage expansion with the user-friendly Storage & Snapshots Manager app.

Mount cloud storage or remote file servers

Mount cloud storage or remote file servers to expand the capacity of the TS-464U-RP while also centrally managing files on the NAS, cloud storage, and remote devices.

Migrate to a new NAS

Install your NAS hard drives into a larger QNAP NAS and retain all your existing data and configurations.

Upgrade RAID capacity

Hot-swap lower-capacity drives with larger-capacity drives to expand your NAS capacity so it can grow with your business.

More productivity-boosting applications

The TS-464U-RP provides an App Center that includes feature-rich apps to expand your NAS potential!

QuObjects

Run a high-performance S3 compatible development environment on your TS-464U-RP to simplify service development workflows from testing to production. You can also move cold data from the cloud to an on-premises QuObjects to save cloud storage costs.

Notification Center

Consolidates all system events, alerts, and notifications for smooth and easy NAS management, keeping you always informed of your NAS status.

Proxy Server

By using a high-capacity TS-464U-RP as a proxy server, online resources can be efficiently accessed with greater cost-savings and productivity, while network security is also enhanced at the same time.

QmailAgent

Centralize multiple email accounts and protect your data by using secondary backup, making managing and backing up emails absolutely easy.

Qcontactz

Centrally manage all your contacts, import contacts from Google™, import/export contact information using CSV or vCard files, and enjoy an always-online database of contact information.

QuFTP

The TS-464U-RP can perform as an FTP server featuring SSL/TLS encryption, QoS bandwidth controls, and permission settings for efficiently and securely transferring large amounts of data. FTP Client is also supported.

A health check for your hard drives

Hard drives are at the heart of your NAS, and ensuring their long-term health and reliability is absolutely crucial. QNAP provides various methods and tools to help you monitor hard drive health, ensuring that you can take proactive decisions to safeguard your data and files.

S.M.A.R.T. and back block scanning

If any of the S.M.A.R.T. values are reported as abnormal, or bad blocks are detected, you can take early action and replace drives before potential data loss occurs.

DA Drive Analyzer

The DA Drive Analyzer leverages ULINK cloud-based AI to predict the expected lifespan of drives, assisting you in planning future drive replacements to protect against NAS downtime and data loss.

Seagate® IronWolf™ Health Management

When using supported IronWolf™ or IronWolf Pro™ hard drives, overall system reliability is improved by providing you with actionable prevention, intervention, and recovery options.

Techninė specifikacija

Laikmenos	
Įrengti saugojimo kaupikliai	Ne
Bendras įrengtos saugyklos pajėgumas	0 TB
Įrengtų saugojimo tvarkyklių skaičius	0
Palaikomų saugojimo tvarkyklių skaičius	4
Įdiegtas kaupiklio tipas	Ne
Palaikomi saugojimo kaupiklių tipai	HDD & SSD
RAID palaikymas	Taip
Palaikomi saugojimo kaupiklių sąsajos	„Serial ATA II“, „Serial ATA III“

Palaikomi saugojimo kaupiklio dydžiai	2.5,3.5"
RAID lygiai	0, 6, 1, JBOD, 5, 10
Tisioginė RAID migracija	Taip
Tiesioginė RAID plėtra	Taip
RAID atkūrimas	Taip
Neišjungus pakeičiami diskų skyreliai	Taip
Palikomų failų sistemos	FAT32, exFAT, HFS+, NTFS, ext3, ext4
Disko tarptinklinis ryšys	Taip
Procesorius	
Procesoriaus šeima	„Intel® Celeron®“
Procesoriaus gamintojas	Intel
Procesoriaus modelis	N5095
Procesoriaus dažnis	2 GHz
Procesoriaus padidintas dažnis	2,9 GHz
Procesoriaus branduoliai	4
Temų skaičius	4
CPU konfigūracija (maks.)	1
Integruoto grafikos adapterio modelis	Intel® UHD Graphics
Atmintis	
Vidinė atmintis	8 GB
Vidinės atminties tipas	DDR4
Maksimali palaikoma RAM atmintis	16 GB
Atminties lizdai	2
Atminties formos koeficientas	SO-DIMM
Flash atmintis	4000 MB
Tinklas	
Ethernet LAN jungtis	Taip
Eterneto LAN duomenų perdavimo norma	10,1000,2500,100 Mbit/ai
Varinių eterneto kabelių technologija	10BASE-T, 100BASE-TX, 1000BASE-T, 2500BASE-T
DHCP serveris	Taip
Jumbo Frames palaikymas	Taip
iSCSI palaikymas	Taip
Wake-on-LAN pasirengimas	Taip
Dinaminis DNS (DDNS)	Taip

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Ryšys	
Ethernet LAN (RJ-45) portų kiekis	2
USB prievadas	Taip
USB 2.0 portų kiekis	2
USB 3.2 (3.1 1 kart.) A tipo prievadų skaičius	0
USB 3.2 2 kart. (3.1 2 kart.) A tipo prievadų skaičius	2
HDMI portų kiekis	1
HDMI versija	1.4b
Konkurentinės jungtys	1500
„PCI Express x2“ (3.x kartos) lizdų skaičius	1
Konstrukcija	
Bloko tipas	Stovas (1U)
Aušinimo tipas	Aktyvus
Produkto spalva	Aliuminis, Juoda
Ventiliatorių skaičius	2 ventiliatorius(iai / ių)
Ventiliatoriaus skersmuo	4 cm
LED indikatoriai	HDD, Būsena, Energija, LAN
Veikimo charakteristikos	
Tipas	NAS
Įrenginio klasė	Smulkusis ir vidutinis verslas
Atsarginio atkūrimo funkcija	Taip
Atsarginio atkūrimo funkcijos	„Cloud“, iSCSI LUN
Zumeris	Taip
Kalbų palaikymas	Taip
Momentinė nuotrauka	Taip
Valdymo protokolai	SNMP V2, V3
Apsaugos algoritmų palaikymas	256-bit AES, FIPS 140-2, HTTPS, SNMPv2, SNMPv3, SSH
Prieigos kontrolės sąrašas (ACL)	Taip
Atstatymo mygtukas	Taip
On/off mygtukas	Taip
Įmontuotas FTP serveris	Taip
Palaikoma naršyklė	Apple Safari, Google Chrome, Microsoft Edge, Mozilla Firefox
Sistemos žurnalas	Taip
Greito automatinio rezervo įjungimo įrenginys	Taip
Diskų nuskaitymas	Taip

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S.M.A.R.T. palaikymas	Taip
Bendrinamas katalogas	CIFS/SMB

Programinė įranga

Numatyta operacinė sistema	QNAP Turbo System
Operacinės sistemos versija	5,0,1
Palaikomos „Windows“ operacinės sistemos	Windows 10, Windows 8, Windows 7, Windows 11
Palaikoma operacinė sistema „Linux“	Ubuntu 14.04
Palaikomos MAC operacinės sistemos	Mac OS X 10.10 Yosemite, Mac OS X 10.11 El Capitan, Mac OS X 10.12 Sierra, Mac OS X 10.13 High Sierra, Mac OS X 10.14 Mojave, Mac OS X 10.15 Catalina, Mac OS X 10.15.3 Catalina, Mac OS X 11.0 Big Sur, Mac OS X 12.0 Monterey, Mac OS X 13.0 Ventura
Palaikomos serverio valdymo sistemos	Windows Server 2019, Windows Server 2012 R2, Windows Server 2008 R2, Windows Server 2016, Windows Server 2012
Kitos palaikomos operacinės sistemos	Solaris 10

Energijos valdymas

Maitinimo šaltinio vieta	Įntegruota
Maitinimo šaltinio įrenginio (PSU) talpa	250 W
Maitinimo šaltinių skaičius	2
Nereikalingos maitinimo (RPS) paramos	Taip
Energijos suvartojimas	51,404 W
Energijos suvartojimas (sleep mode)	37,469 W
AC įėjimo įtampa	100 - 240 V
Ventiliatoriaus įtampa	12 V

Svoris ir matmenys

Plotis	430 mm
Ilgis	479 mm
Aukštis	43,3 mm
Svoris	8,12 kg
Pakuotės plotis	667 mm
Pakuotės gylis	612 mm
Pakuotės aukštis	160 mm
Paketo svoris	12,1 kg

Pakuotės turinys

Pridėti kabeliai	AC, LAN (RJ-45)
Maitinimo laidų skaičius	2
Varžtų skaičius	84
Pakuotės tipas	„Box“

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Procesorius ypatumus	
„Enhanced Intel®SpeedStep“ technologija	Taip
Tuščios eigos režimai	Taip
„Intel®64“	Taip
„Intel®Trusted Execution“ technologija	Ne
„Intel®Virtualization“ technologija (VT-x)	Taip
„Intel®Virtualization“ tiesioginės I/O technologija (VT-d)	Taip
„Intel®VT-x with Extended Page Tables“ (EPT)	Taip
Aplinkos sąlygos	
Darbo temperatūros diapazonas (TT)	0 - 40 °C
Darbo santykinės drėgmės diapazonas	5 - 95%
Sandėliavimo temperatūros norma (T-T)	-20 - 70 °C
Sandėliavimo santykinis drėgmės diapazonas	5 - 95%
Logistikos duomenys	
Darniosios sistemos (DS) kodas	84714100
Kitos savybės	
Garantinis laikotarpis	3 metai
Matmenys ir svoris	
Matmenys (I × P × A)	67,00cm × 62,00cm × 17,00cm
Svoris	11,27kg

Dokumentai ir vaizdo įrašai

- Naudojimo instrukcija
- Gaminio lankstinukas

Gamintojo ir saugos informacija

GAMINTOJAS

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