QNAP TS-h1887XU-RP NAS Rack (2U) Intel Xeon E E-2334 16 GB DDR4 0 TB QuTS hero Black, White

Model: TS-h1887XU-RP-E2334-16G

Manufacturer: QNAP

EAN: 4711103082249

Product Code: 970882

R136,511

Powerful 10GbE-ready hybrid storage with PCIe Gen 4 expandability, supporting QuTS hero or QTS operating system

The high-capacity TS-h1887XU-RP is powered by a next-gen Intel® Xeon® E-2300 series processor, supports up to 128 GB DDR4 ECC memory, and provides an HDD/SSD hybrid storage architecture that balances performance and cost to deliver reliable server-grade performance. Running the ZFS-based QuTS hero operating system, the TS-h1887XU-RP emphasizes data integrity with inline data

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deduplication, near-limitless snapshots, real-time SnapSync, and QSAL (QNAP SSD Antiwear Leveling) – providing an ideal storage solution that meets today’s business requirements for file servers, virtualization servers, VDI, and backup/restore.

HDD/SSD hybrid storage

Combines the advantages of high-capacity HDD and high-performance SSD. Supports SSD caching to boost IOPS performance.

10GbE & 2.5GbE connectivity

Dual 10GBASE-T and dual 2.5GbE high-speed connectivity enhances virtualization, intensive file access, and large backup/restoration tasks.

High-speed PCIe Gen 4 slots

Install 10/25GbE adapters, QM2 cards, or Fibre Channel cards to increase application performance.

Virtualization applications

Supports virtualization storage and hosting virtual machines and containerized apps.

Comprehensive backup center

Optimized for business-class backup, including Google™ Workspace and Microsoft 365® data, and VMware® and Hyper-V virtual machines.

Cloud storage gateway

Realizes hybrid cloud applications by working with the cache space reserved on NAS to ensure low-latency data access to the cloud.

Powerful Intel® Xeon® E processor and up to 128 GB DDR4 ECC memory

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Designed for heavy business workloads, the TS-h1887XU-RP has extreme processing power to drive virtual machine performance. Supporting up to 128 GB DDR4 ECC memory to fuel multitasking demands, the TS-h1887XU-RP delivers cost-efficient and reliable server-grade performance to meet increasing business IT demands.

Hybrid storage architecture, optimized for SSD cache acceleration

Compared with traditional storage arrays, the TS-h1887XU-RP hybrid storage balances cost, performance, and capacity. Featuring twelve 3.5-inch SATA 6Gb/s bays for hard drives and six 2.5-inch SATA 6Gb/s SSD slots, the TS-h1887XU-RP supports SSD caching to improve IOPS-intensive workloads for accessing vital data.

Hybrid Backup Sync multiple backups ensure your data protection

Rest assured your data is safe with the 3-2-1 backup rule and a reliable disaster recovery plan. Backups stored in the QNAP NAS can be further backed up to another QNAP NAS, remote server, or cloud storage, and restored quickly whenever needed.

Data Reduction

Too much data, not enough time for backup? QuDedup technology empowers backup tasks with source-based deduplication to optimize file sizes for greater time and storage savings. Backup/recovery becomes much faster!

Versioning

The more versions you back up reduces the risk of data loss. QuDedup is especially useful for accelerating multi-version backups to provide greater protection against data loss.

Encryption

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Files can be encrypted/compressed before they are backed up or synced. This effectively prevents unauthorized access and provides an extra layer of protection for business data.

Intelligent Network

Automatically selects the best physical network ports for your task, supports auto-failover to ensure continuous services, and automatically switches back once the best network port reconnects.

Process Automation

Set the backup process on each NAS, then multiple NAS can automatically complete all job flows. Whether migrating big data or backing up to multiple destinations, IT staff can ease their workloads with a one-time setting.

Server-grade hardware: Sturdy and high-performance

The TS-h1887XU-RP features outstanding hardware and expandable architecture, enabling optimal performance and flexibility to meet diverse application requirements.

10GbE & 2.5GbE-ready. Fast for bandwidth-demanding tasks.
The TS-h1887XU-RP provides two 2.5GbE RJ45 ports (backwards compatible with 1G/100M) and dual-port 10GBASE-T connectivity. Port Trunking and failover support further increases bandwidth and reliability for vital applications including virtualization, large file transfers, high-speed backup/restoration, and real-time applications. QNAP also offers numerous options of managed and unmanaged 10GbE/2.5GbE switches, assisting organizations in implementing high-speed, secure and scalable network environments without going over budget.

Flexible PCIe Gen 4 expansion

The TS-h1887XU-RP is equipped with a PCIe Gen 4 slot. With twice the I/O performance of PCIe Gen 3, the TS-h1887XU-RP can take advantage of PCIe cards to expand application potential.

ZFS-based QuTS hero operating system enhances NAS performance and data integrity

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QuTS hero combines the app-based QTS with the 128-bit ZFS file system to provide flexible storage management, comprehensive data protection, and optimized performance to tackle the complexity and performance demands of modern IT. From storage management, virtualization, to collaborative media workflows, QuTS hero streamlines your business-critical tasks.

Data integrity is key

QuTS hero’s self-healing ensures data integrity and reliability. Write Once, Read Many (WORM) is also supported.

Data reduction improves storage efficiency and performance

Inline data deduplication, compression, and compaction reduce file sizes to conserve storage capacity and optimize performance.

Multi-level cache technology

Main memory read cache (L1 ARC), SSD second-level read cache (L2 ARC), and ZFS Intent Log (ZIL) for synchronous transactions with power failure protection are supported to boost performance and security.

RAID Z enables robust data protection

Multiple RAID levels allow flexible capacity utilization. RAID Triple Parity and Triple Mirror deliver higher levels of data protection.

QSAL (QNAP SSD Antiwear Leveling) enhances data protection

RAID-level SSD lifespan is automatically and regularly detected to prevent simultaneous SSD failure, improving your data protection and system reliability.

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App Center ecosystem extends NAS functionality

Apps for backup/sync, virtual machines/containers, content management, productivity, and more features can be used to expand the application potential of the NAS.

Inline data deduplication, compression, and compaction improve SSD endurance

QuTS hero supports advanced block-based data reduction technologies (including inline data deduplication, compression, and compaction) to reduce file sizes, conserve storage capacity, and optimize performance. For example, if 20 virtual machines on a NAS are replicated using the same template, then storage space requirements for all 20 virtual machines can be reduced by up to 95%. Whether acting as primary or backup storage, the TDS-h2489FU optimizes storage utilization to provide a reliable storage cornerstone in the Big Data era. All-flash solutions thus achieve higher cost efficiency while improving both random write performance and SSD lifespan.

Comprehensive backup and disaster recovery solution

The TS-h1887XU-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.

Remote backup for NAS

Hybrid Backup Sync makes it easy to back up data from a TS-h1887XU-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

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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.

Real-time SnapSync

Real-time SnapSync immediately synchronizes data changes with the destination storage, ensuring the primary and secondary NAS always have the same data. RPO is minimal to achieve real-time disaster recovery.

Multi-version snapshots mitigate ransomware threats

The TS-h1887XU-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.

Up to 65,536 snapshots

QuTS hero supports enough snapshots for you to create 1 snapshot every hour for 7 years without needing to delete any! Copy-on-write technology makes snapshot creation almost instantaneous without affecting ongoing data writing.

Back up snapshots

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Multiply data protection by backing up snapshot files! Replicate volume/LUN snapshots in the TS-h1887XU-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-h1887XU-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.

QuTScloud virtual NAS

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QuTScloud is a virtual appliance based on the QTS operating system. Enterprises can quickly launch QuTScloud on hypervisors including Linux® KVM, Microsoft® Hyper-V, and VMware ESXi™ to acquire advanced NAS features without requiring additional NAS hardware.

Comprehensive security and privilege settings

The TS-h1887XU-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.

Simplified privilege settings

The TS-h1887XU-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.

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-h1887XU-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-h1887XU-RP to check for weaknesses and offer recommendations for enhancing NAS security. It also integrates anti-virus and anti-malware scanning software.

Malware Remover

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Regularly scan your TS-h1887XU-RP using the latest malware definitions. If infected files are detected, they will be immediately removed to ensure NAS data security.

TeamViewer remote access

TeamViewer app enables remote management and connectivity to multiple NAS devices from Windows® PCs with an unparalleled level of safety, while increasing IT efficiency and end user productivity.

The best file storage and collaboration center

The TS-h1887XU-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-h1887XU-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-h1887XU-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.

Free exFAT support

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exFAT is a file system that supports files up to 16EB and is optimized for flash storage (such as SD cards and USB devices) - helping accelerate large media file transfer and sharing.

Build an affordable Fibre Channel SAN environment

Common Fibre Channel Storage Area Networks (SAN) devices are often costly. By installing QNAP dual-port 16Gb/32Gb Fibre Channel expansion cards in the TS-h1887XU-RP, you have more budget-friendly options to add a NAS to a SAN environment. You can set a Fibre Channel Target using the iSCSI & Fibre Channel app. Moreover, the LUN Masking and Port Binding features provide an additional layer of data security.

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-h1887XU-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-h1887XU-RP storage as needed to accommodate data and business growth.

Attach QNAP expansion enclosures

Connect expansion enclosures to the TS-h1887XU-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-h1887XU-RP while also centrally managing files on the NAS, cloud storage, and remote devices.

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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.

QuMagie

An AI-powered photo management app, supporting automated photo categorization with AI Albums, iOS® Live Photo display, and powerful search tools for the ultimate photo management and sharing solution.

QuObjects

Run a high-performance S3 compatible development environment on your TS-h1887XU-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-h1887XU-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

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The best email backup solution that allows you to easily backup/recover and manage multiple email accounts in their native format with strong security and data integrity.

QuFTP

The TS-h1887XU-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.

Flexibly switch to QTS operating system

The TS-h1887XU-RP also supports QTS - QNAP’s standard NAS operating system – that provides greater everyday performance, efficient memory utilization, and the advantage of Qtier auto-tiering.

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You can also migrate drives from your current QTS-based NAS to the TS-h1887XU-RP.

QTS

Suited for performance-demanding tasks, cross-teams file sync, and HDD-SSD hybrid storage applications

QuTS hero

Featuring highly reliable data protection and data reduction, and optimized for SSD-based applications

Extend hardware warranty up to 5 years

The TS-h1887XU-RP is backed by a 3-year warranty at no additional cost. You can also purchase a warranty extension that extends your warranty coverage up to 5 years.

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