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QNAP TS-H1886XU-RP-R2 NAS Rack (3U) Intel® Xeon® D D-1622 32 GB DDR4 0 TB QuTS hero Black, Grey

Model: TS-h1886XU-RP-R2-D1622- 32G

Manufacturer: QNAP

EAN: 4711103081242

Product Code: 973188

R160,521

Cost-effective 10GbE-ready ZFS storage for virtualization and data-intensive enterprise applications

Intel® Xeon® D processor and up to 128 GB DDR4 ECC memory. Powerful and reliable

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The TS-h1886XU-RP R2 features an Intel® Xeon® D-1622 quad-core processor, 32 GB DDR4 ECC memory (dual-channel module, four Long-DIMM slots, upgradable to 128 GB), and dual redundant power supplies to deliver a cost-efficient NAS solution with server-grade performance and the utmost reliability. By connecting multiple QNAP expansion enclosures, the storage capacity of the TS-h1886XU-RP R2 can be easily expanded to satisfy fast-growing data and budget flexibility.

ECC memory forestalls data corruption to assure reliability

The TS-h1886XU-RP R2 uses ECC memory that can detect and correct single-bit memory errors as they occur to prevent downtime and data loss, which is essential for always-on, mission-critical, server-grade applications. The TS-h1886XU-RP R2 supports dual-channel DDR4 memory in four Long-DIMM slots. When using paired memory modules, the TS-h1886XU-RP R2 can leverage the power of dual-channel architecture to boost performance. You can also customize the memory configuration (supports up to 128 GB RAM) of the TS-h1886XU-RP R2 for greater performance to tackle dynamically-changing workloads, such as virtualization.

Dual 10GbE connectivity optimizes high-speed data transfer and supports RDMA/RoCE

The TS-h1886XU-RP R2 comes with a pre-installed dual-port 10GbE SFP+ Smart NIC (that uses the NVIDIA® Mellanox ConnectX®-4 Lx, or the same level SmartNIC) to improve bandwidth-demanding data center and virtualization applications and to support RDMA over Converged Ethernet (RoCE and RoCEv2), allowing data to bypass general network drivers, the socket layer, and directly enter ESXi server and storage memory buffer. RoCE technology can improve NAS performance while lowering CPU consumption of applications that use an Ethernet network, ideal for low-latency and high-speed large data transfer.

Four 2.5GbE ports to redefine upgraded connectivity

Compared with the previous model, the data transmission speed of TS-h1886XU-RP R2 is increased by 250% to handle multiple key business tasks.

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HDD + SSD hybrid structure to optimize storage performance and utilization

The TS-h1886XU-RP R2 features outstanding hardware and expandable architecture, enabling optimum performance and flexibility to satisfy business needs in various applications.

Abundant I/O capability with PCIe expansion

The TS-h1886XU-RP R2 has two PCIe Gen3 x4 slots (one slot pre-installed with a dual-port 10GbE expansion card) and one PCIe Gen2 x4 slot that allow for installing various expansion cards to expand application potential.

Build an affordable Fibre Channel SAN environment

Common Fibre Channel Storage Area Networks (SAN) devices are often costly. By installing QNAP dual-port ###TS-h1886XU-RP R2-fc### Fibre Channel expansion cards in the TS-h1886XU-RP R2, 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.

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Data integrity is key

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

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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.

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.

Tiered storage configuration for a QuTS hero NAS

Basic requirements for setup are similar to QTS. We recommend you to follow these steps to acquire optimal storage efficiency and performance for QuTS hero.

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Inline data deduplication, compression, and compaction drives Big Data storage efficiency

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 TS-h1886XU-RP R2 optimizes storage utilization to provide a reliable storage cornerstone in the Big Data era.

Real-time SnapSync ensures minimal RPO with real-time disaster recovery

Real-time SnapSync ensures that both the primary and secondary NAS maintain identical data. When data is written to the source, it is immediately written to the destination. If the primary NAS goes offline, IT staff can simply adjust the privilege settings of the secondary NAS to ensure continuous operations. SnapSync provides the strongest support for nonstop business operations and helps users to reduce the risk of data loss.

Snapshots multiply backup protection

Attain peace of mind with near-limitless, instant snapshots. Copy-on-write technology makes snapshot creation almost instantaneous without affecting ongoing data writing. Snapshot Replica replicates snapshot files to the backup NAS, simplifying data protection with version control.

HBS simplifies 3-2-1 backup plans

HBS centralizes backup, restoration, and synchronization for easily transferring data in the TS-h1886XU-RP R2 to another QNAP NAS, remote server, or cloud storage space. HBS supports QuDedup technology that eliminates redundant data at the source and makes multi-version backup faster.

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Comprehensive backup and disaster recovery solution

The TS-h1886XU-RP R2 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-h1886XU-RP R2 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

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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-h1886XU-RP R2 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 65,535 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

Multiply data protection by backing up snapshot files! Replicate volume/LUN snapshots in the TS-h1886XU-RP R2 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.

Reliable, high-performance storage for virtualization

The TS-h1886XU-RP R2 supports block-based iSCSI LUN as a reliable, high-performance, and affordable storage solution for mainstream virtualization environments. It supports VMware® VAAI and Microsoft® ODX to increase performance by offloading server loading for ESXi server and Hyper-V respectively.

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

By running multiple virtual machines and containers on the TS-h1886XU-RP R2, 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

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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.

Single Root I/O Virtualization (SR-IOV)

By installing an SR-IOV compatible PCIe SmartNIC in the TS-h1886XU-RP R2, you can allocate bandwidth resources from a physical network card directly to VMs, increasing network efficiency and reduced CPU overheads.

QuTScloud virtual NAS

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

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The TS-h1886XU-RP R2 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.

myQNAPcloud secures remote access

myQNAPcloud allows convenient connection to the TS-h1886XU-RP R2 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-h1886XU-RP R2 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-h1886XU-RP R2 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

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A security portal for the TS-h1886XU-RP R2 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-h1886XU-RP R2 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-h1886XU-RP R2 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-h1886XU-RP R2 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-h1886XU-RP R2 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

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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-h1886XU-RP R2 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-h1886XU-RP R2 storage as needed to accommodate data and business growth.

Attach QNAP expansion enclosures

Connect expansion enclosures to the TS-h1886XU-RP R2, 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-h1886XU-RP R2 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.

More productivity-boosting applications

The TS-h1886XU-RP R2 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-h1886XU-RP R2 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.

Linux Station

Run Linux® applications (including apps from the Linux® Software Center) directly on the NAS and remotely access the Linux® desktop from a web browser. It also makes the TS-h1886XU-RP R2 an ideal gateway for IoT solutions.

Proxy Server

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By using a high-capacity TS-h1886XU-RP R2 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.

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.

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