



QNAP QuCPE-3032



Model: QUCPE-3032-C3558R-8G

Manufacturer: QNAP

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Product Code: 608302

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Network Virtualization Premise Equipment with an Intel® Atom Refresh quad-core processor, suitable for deploying virtual networks in multiple edge offices

QNAP's QuCPE-3032 Network Virtualization Premise Equipment is a universal virtualization platform specifically designed for SMBs. The QuCPE-3032 adopts the high-performance Intel® Atom Refresh quad-core processor that supports Intel® QAT, Smart NIC SR-IOV and DPDK hardware acceleration technologies while also providing eight 2.5GbE RJ45 ports and two 10GbE SFP+ ports. With enhanced bandwidth and computing performance for running VNFs and connecting SD-WAN (Supporting VPN/WireGuard), the QuCPE-3032 is suitable for multi-user and multi-tasking business applications. The QuCPE-3032 also features the QNE (QNAP Network Equipment) OS for chaining VNF services and AMIZ Cloud centralized deployment and management platform to realize flexible Zero Touch Provisioning.

Build a multi-site network infrastructure for SMBs and Micro-enterprises

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QNAP's high-performance QuCPE integrates the QuWAN SD-WAN solution, AMIZ Cloud platform, and WireGuard VPN. Small businesses and micro-enterprises can flexibly build multi-site network infrastructure by deploying a QuCPE Series 7 in their headquarters, and QuCPE Series 3 in their branches and workplaces.

Easily deploy virtual network environments with the 2-in-1 Premise Equipment

When deploying virtualized environments, Enterprises often choose to install costly enterprise-grade solutions on edge servers or free solutions with limited technical support – a hard decision for resource-constricted SMBs. In addition, simultaneously running multiple VMs can impact network performance. QNAP's QuCPE Network Virtualization Premise Equipment combines hardware acceleration technologies, QNAP's proprietary QNE Network operating system and the AMIZ Cloud centralized management platform to help SMBs build a highly-optimized virtual network infrastructure.

The QNE Network Operating System completes your virtual network infrastructure

QNAP's proprietary QNE Network operating system supports the intuitive Network Service Composer and Software-Defined WAN (SD-WAN), allowing for flexible network deployment and multi-site network infrastructure expansion. By supporting Virtual Network Functions (VNF), Virtual Machines and Containers, QNE Network integrates network, computing, and application services to realize network virtualization, application virtualization and efficient management, greatly lowering management and maintenance complexity.

AMIZ Cloud - powerful centralized VM management platform

The AMIZ Cloud centralized management platform enables HQ-based IT staff to centrally monitor all edge devices, virtual machines, and containers. Supporting troubleshooting, and remote management via the Account Center, the QuCPE-3032 helps enterprises achieve Zero Touch

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Provisioning, thus enhancing IT deployment efficiency and reducing maintenance costs.

Efficient management via Service Composer with visualized topology

With the visualized topology of the Network Service Composer, you can easily set up VNFs or VMs, create virtual switches, and allocate physical network resources for chained services by drag and drop. When settings change, you can directly add/remove individual VNFs using the service composer, greatly simplifying operational network combination.

SD-WAN enables chaining network services

QNE incorporates QNAP's QuWAN SD-WAN solution (subscription-free) to form encrypted VPN tunnels with other QNAP devices based in multiple sites and achieve multi-site network services chaining. For example, you can automatically create a firewall network (using QuWAN and pfSense VNFs) to enhance WAN security in the Service Composer UI using drag-and-drop.

Optimize LAN/WAN performance

Service Composer also supports SR-IOV and QuWAN SD-WAN, which greatly improves the WAN transmission of the QuCPE-3032 that runs QuWAN, while also helping users to enjoy high-speed and secure LAN and WAN network transmission at the same time.

Enhanced security

You can automatically create a firewall network (using QuWAN and pfSense VNFs) to enhance WAN security in the Service Composer UI using drag-and-drop.

Run your VM/VNF Directly on QuCPE

QNE Network inherits versatile virtual applications from the QNAP QTS system. QuCPE can simultaneously run multiple virtual machines, software containers, and even bespoke user-made virtual machines in Virtualization Station and Container Station, assisting SMBs in improving deployment and management flexibility while streamlining hardware costs.

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Intel hardware acceleration technologies boost virtual network performance

Specifically designed for running virtualization applications, the QuCPE-3032 Network Virtualization Premise Equipment adopts multiple Intel hardware acceleration technologies to allow direct hardware access, thus enhancing VM and virtual network transmission performance.

DPDK (Data Plane Development Kit)

Allows data to bypass the OS Kernel and directly enter user space to offer a double packet transmission rate (Total T/R x L2) and improve overall virtualization application performance.

Smart NIC SR-IOV (Single Root I/O Virtualization)

By installing an SR-IOV compatible PCIe SmartNIC, you can allocate bandwidth resources from a physical network card directly to VMs. With traffic bypassing the Hypervisor vSwitch, it helps enhance I/O throughout and network efficiency, ensuring reliable VM applications and reduced CPU overheads.

Intel QAT (Intel QuickAssist Technology)

Offloads computationally-intensive compression and improves IPsec cryptography VPN performance.

Smart IT tools for network management efficiency

QNE Network provides comprehensive management features for Smart IT network management.

Notification Center

Consolidates QTS system events and alerts, providing a single-app solution for notifications instead of having to configure individual settings in multiple apps. Notifications can be sent through email, SMS, and other communication apps.

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QuLog Center

Centralizes statistical rankings of error/warning events and access, assisting IT staff in monitoring and responding to potential system risks.

Security Center

Provides security management for IT staff, including managing SSL certificates. Other features include automatically detecting history edits to prevent malicious edits.

Zabbix

Zabbix is a third-party solution that automatically detects devices and monitors network status. Zabbix provides user-friendly topology and network reporting, suitable for enterprise network management.

Supports third Party Virtual Network Functions

The Application Store and VM Marketplace provides multiple free and premium VNF and applications that users can install on demand.

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