



QNAP QGD-1602P Managed L2 Gigabit Ethernet (10/100/1000) Power over Ethernet (PoE) 1U Black, Grey



Model: QGD-1602P-C3558-8G

Manufacturer: QNAP

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R32,638

The QNAP QGD-1602P is the world's first PoE managed switch series that supports Virtual Machines (VMs). Featuring 2.5GbE and 10GbE SFP+ ports and up to 90-watt PoE output, the QGD-1602P allows you to build a high-speed and high-power PoE network infrastructure for Wi-Fi 6 Access Points and Routers. With a dual-CPU design, the QGD-1602P uses Intel Atom multi-core 2.2GHz processors with two SATA drive bays to support VM and QTS applications. The QGD-1602P not only fulfills IP surveillance, network security, wireless AP management, and storage expansion applications, but

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also integrates QuWAN to form a SD-WAN architecture with other QNAP devices across multiple sites, helping to build a resilient and secure IT infrastructure. With 20GbE internal bandwidth capacity and Intel® QuickAssist Technology (Intel QAT), the QGD-1602P achieves the high-performance transmission required for edge computing virtualization and IPsec VPN, and offers SMBs a cost-optimized and centrally managed LAN deployment solution.

2.5GbE PoE Switch for Wi-Fi 6 APs & Routers

The QGD-1602P breaks through bandwidth limitations of connecting cabled and wireless networks to enhance your storage and access experience. With eight 2.5GbE ports, the QGD-1602P supplies up to 90 watts of PoE per port and a total power budget of 380 watts to meet the demands of high-power Wi-Fi 6 APs. The QGD-1602P can also be connected to a QHora Wi-Fi 6 Router via its 10GbE SFP+ ports or 5GbE host ports to offer Wi-Fi 6 network in home or office environments. Featuring diverse high-speed network interfaces, the QGD-1602P provides a comprehensive Wi-Fi 6 wireless network infrastructure solution for small-to-medium-scale businesses, hotels and stores. Coupled with QNAP's QuWAN SD-WAN solution, the QGD-1602P greatly enhances wireless LAN efficiency from optimized WAN bandwidth.

Upgraded performance for smoother virtualization

The QGD-1602P provides a full upgrade of network speeds, performance and memory, which not only greatly enhances the network transmission speeds of edge devices, but also optimizes the capabilities of running multiple virtual machines and containers for highly-efficient virtualization applications.

Sturdy hardware with Intel QAT for optimized performance

The QGD-1602P uses Intel Atom C3000 series multi-core 2.2GHz processors, has two SATA drive bays, and provides and two M.2 NVMe SSD slots for SSD caching to increase IOPS performance. Two PCIe Gen3 x2 slots allows users to install 10GbE network cards, QM2 dual-port M.2 SSD/10GbE cards, USB 3.2 Gen 2 (10Gbps) cards, or Wireless Adapters to boost core functionality. The QGD-1602P also supports Intel QuickAssist Technology (Intel QAT) to greatly enhance IPsec VPN performance.

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The First PoE Switch Series with VM Support

The Guardian supports QNAP's QTS operating system and is the world's first PoE switch series that can host virtual machines, containers, and provide other cloud applications - enabling diverse networking and storage solutions. In addition to QuWAN, QVR Pro, HybridMount, and other applications, the included App Center also supports VMs for running many open-source software applications. The Guardian provides SMBs with not only an all-in-one networking solution for IP surveillance, storage expansion, network security, and wireless LAN management, but also a SD-WAN solution for connecting to other QNAP devices at multiple sites. The dual-processor Guardian enables you to independently run the networking management interfaces (QSS - QNAP Switch System) and QTS. The Guardian provides a user-friendly web interface, QuNetSwitch, to help SMBs deploy a flexible and secure IT infrastructure.

Deploy a multi-site VPN with SD-WAN solution

The QGD-1602P and other QNAP solutions now support QuWAN - QNAP's SD-WAN solution. QuWAN provides full mesh IPsec VPN topology between QNAP devices based in multiple sites to fulfill enterprise video, VoIP, ERP system data, and filing needs. QuWAN adopts software-defined networking to achieve optimum network connectivity, and supports cloud-centric management for deploying a resilient IT Infrastructure.

Dual-system of Switch & NAS, enabling optimum performance

The QGD-1602P features dual system design, multi-port capability and expandable architecture, enabling optimum transmission and flexibility to fulfill business needs in performance and application diversification.

Intelligent PoE Management of up to 90W high-power devices

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The QGD-1602P is compliant with the IEEE 802.3bt PoE++ and IEEE 802.3at PoE+ standards, offering 4-port 90-watt and 12-port 30-watt PoE capabilities. The QGD-1602P can supply a total power budget of 370 watts to meet the demands of many high-power devices (PDs) (such as 4K IP cameras, wireless APs, IP phones, LED lights, and digital signage). The QGD-1602P supports intelligent PoE management functions, including scheduling, power supply prioritization, and power enabling and disabling. You can obtain the real-time network connection status and power consumption information of PDs and configure PDs simultaneously to promote an energy-saving PoE network.

Faster wired and wireless transmission

The QGD-1602P has eight 2.5GbE ports and eight Gigabit PoE ports for connecting various high-speed powered devices. Two in-built 10GbE SFP+ ports can serve as uplink ports to the Internet and core networks or simply be connected to routers and LAN Fiber switches. The additional two 5GbE and two Gigabit host management ports can be connected to multiple hosts or LAN devices to improve LAN efficiency. The switching capacity of QGD-1602P is 96Gbps, guaranteeing the full potential of each port. By installing an 802.11ac Wireless Adapter and the WirelessAP Station App, the QGD-1602P can work as an access point for connecting multiple edge devices and offer wireless speeds up to 2533Mbps.

20GbE Internal Bandwidth for Virtualized Applications

QTS can directly access to and control the data processed in QSS using Virtual Switches. The QGD-1602P provides 20GbE internal bandwidth to accelerate computing between end devices and hosts. The additional two 5GbE and two Gigabit host management ports can also be connected to multiple hosts for deploying multiple virtual machines.

QuNetSwitch: Layer 2 Management with User-friendly Web GUI

The QGD-1602P provides comprehensive Layer 2 management features (including VLAN, LACP, and LLDP) for efficient control of networks through IP grouping and bandwidth management. Powerful security functions (including IGMP Snooping, static MAC, QoS, and Wake-on-LAN) are also suitable for

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simple networking environments and easy deployment. Aside from the QNAP Switch System (QSS), the QGD-1602P also offers the user-friendly web interface software QuNetSwitch (via QTS) to help IT staff control Layer 2 management and PoE networks. The overview dashboard and statistical analysis area displays all the information about the switch and PDs at a glance, making centralized management of powered devices intuitive and easy.

The Guardian Smart Edge PoE Switch meets all your business needs.

The QGD-1602P is a one-stop central networking solution that offers flexible power supply, Web-based management, and innovative virtualization applications to solve various networking problems.

Smart Hotels

Hotel staff and customers can benefit from a smart access control system. Customers can check in with self-help kiosks upon arrival while browsing through room details and service packages. Wi-Fi should also be provided for customers to check information and contact customer service. Customer data also needs to be securely stored, while a surveillance system is necessary to ensure security.

Business Digital Transformation

IT staff in small businesses often need to set up file servers for employees to centrally store files. You also need to create networks for connecting equipment such as printers and VoIP phones. Firewalls are crucial in information security for mitigating attacks and threats. VPN connections are also necessary for secure remote file transfers between offices, sites, and remote workers.

Smart Retail

Digital signage is a convenient way to display menus/inventory and current offers. The POS system must also be constantly connected to ensure sales data is saved. An NVR surveillance system is also required to ensure customer, staff, and environmental security. These services can also use Wi-Fi for ease of use.