

The **Q-VPN**® is an amalgamation of a number of open source software packages running on an extremely small form factor, low-power-consumption server. The **Q-VPN** is based on **SoftEther**, the open source, cross platform, Virtual Private Network (VPN) software package created by the University of Tsukuba, Japan. The **SoftEther** VPN server software is fully compatible with **OpenVPN** for Server-to-Server VPNs, as well as with the **OpenVPN** client. Plus there are **SoftEther** clients for all other platforms. The **SoftEther** VPN management software allows for far greater control over VPN connections than **OpenVPN**. Management is through a Windows software gui interface.

The ultra compact design of the **Q-VPN** appliance allows exceptionally flexible and creative deployment options as well as significant electricity and space savings.

We encourage you to go to our website, [www.quantalytics.com](http://www.quantalytics.com), for a more comprehensive explanation of the **Q-VPN**'s enhanced controls and features, and a comparison chart showing its enhancements and improvements verses **OpenVPN**.



#### **Q-VPN Hardware Specifications:**

- 108 mm x 64 mm x 26 mm – 170 grams  
(4.25" x 2.50" x 1.125" – 6 oz)
- Power consumption under full load: 12 watts, 120v-240v
- No fan or any moving parts. Must be installed in a well-ventilated space.
- Operates 0°C–70°C (32°F–158°F)

#### LED indicators:

- Power
- Link (physical connection to network)
- Activity (network traffic)
- 1000 mbps (gigabit) NIC connection
- Dual Band WiFi. (2.4 GHz & 5 GHz)

The **Q-VPN** network appliance includes:

- **SoftEther**® – **SoftEther**® ("Software Ethernet") is the most advanced open source, enterprise-class, multi-protocol VPN server package available today. **SoftEther** is superior to, and fully compatible with, OpenVPN Server for Server-to-Server VPNs, as well as Microsoft's VPN server and client offerings, as well as all versions of Microsoft's operating systems plus Android, Linux, Mac OS, and IOS. **SoftEther** includes clone versions of OpenVPN Server and Microsoft's STP Server for full compatibility with already installed VPN clients.

**SoftEther** also includes its own, open source, easy-to-configure VPN client for all platforms. Using the **Q-VPN** eliminates the need to purchase Microsoft's Windows Server Licenses for remote access.

Management of the **Q-VPN** server is through an open source Windows software package which we provide. The Windows GUI makes it possible for admins not familiar with Linux or Mac OS to easily administer the **Q-VPN** server. The software also has

very granular controls for VPN access and logging, as well as easy confederation of multiple **Q-VPN** servers for especially large, multiple VPN, infrastructures. Over 10,000 VPN connections can be supported simultaneously.

- **Webmin** - **Webmin** is the leading open source Web GUI package for server configuration and maintenance. **Webmin** also allows for the linkage of multiple **Q-VPN** appliances for simplified administration.
- **HA Proxy** - **HA Proxy** is the leading open source package for automatic failover and load balancing. Up to 32 **Q-VPN** network appliances may be linked for automatic failover or load balancing for coverage of extremely large networks. Administration is done through a web gui.
- **ModSecurity**® - **ModSecurity**® ("**ModSec**") is the leading open source Web Application Firewall (WAF) for cross-scripting attack protection. **ModSec** is used to harden the **Q-VPN** network appliance's built-in Apache web server and prevent conceivable attacks.
- **Tiny Honeypot (THP)** - **THP** fools attackers by making it appear that the attack is working, while meanwhile logging the attack info. **THP** wastes an attacker's time, and creates an opportunity to detect the network intrusion by offering to the attacker what appears to be thousands of services.
- **ClamAV**® - **ClamAv**® is the leading open source anti-virus package.

The **Q-VPN** network appliance has both a Gigabit (1000 mbps) NIC and 802.11 Dual Band WiFi. (2.4 GHz and 5 GHz.)

The **Q-VPN** network appliance is also available as a Virtual Machine (VM).

The **Q-VPN** network appliance is completely administered through a Web GUI. All package usage is via Web interfaces, thereby opening up highly sophisticated VPN administration to even novice network administrators. No Command Line Interface (CLI) or Linux skill is required.

Using the provided **Webmin** module, two-factor authentication can be added using **Google Authenticator** or **Authy**, a commercial service with its own app. **Google Authenticator** runs on Android, IOS, and Blackberry devices, and uses the standard TOTP protocol.

Notifications are provided by e-mail using **SendMail**, which is configured with a module in **Webmin**, and syslog entries. SMS notification is available as an option. The **Q-VPN** network appliance can be integrated with **Nagios**® on the **Q-Box**® as another notification route. The **Q-VPN** network appliance can also be integrated with the **Q-Log**® network appliance or any other Syslog or SIEM (Security Information and Event Management) solution, including the **Q-OSSEC**®.

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