

[Manuals.plus](#) /

› [TP-Link](#) /

› TP-Link ER-605 Gigabit VPN Router User Manual

TP-Link ER605-Cloth

TP-Link ER-605 Gigabit VPN Router User Manual

Model: ER605-Cloth

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your TP-Link ER-605 Gigabit VPN Router. Designed for small and medium-sized businesses, this router offers high-speed, secure, and reliable internet connectivity with advanced features like dual WAN ports for load balancing and robust security protocols. Please read this manual thoroughly before using the device to ensure proper setup and optimal performance.

2. WHAT'S IN THE BOX

Upon unpacking, please verify that all the following items are included:

- Omada Gigabit VPN Router ER605
- Power Adapter
- RJ45 Ethernet Cable
- Installation Guide
- Cleaning Cloth



Image: The TP-Link ER-605 Gigabit VPN Router shown alongside the included cleaning cloth. The router features multiple Ethernet ports and status indicators.

3. PRODUCT OVERVIEW

3.1 Key Features

- **High-Speed Connectivity:** Dual WAN ports for load balancing and enhanced network performance.
- **Robust Security:** SPI firewall, DoS defense, and IPsec, PPTP, L2TP VPN support for secure remote access.
- **Easy Management:** Intuitive web interface, Omada app compatibility, and centralized cloud monitoring.
- **Bandwidth Optimization:** Intelligent bandwidth management and QoS settings.
- **Flexible Deployment:** Compact design suitable for various installation environments.

3.2 Specifications

Attribute	Detail
Brand	TP-Link
Model Name	ER605
Item Model Number	ER605-Cloth
Package Dimensions	10.55 x 7.95 x 2.44 inches
Item Weight	1.46 pounds
Connectivity Technology	Ethernet
Frequency Band Class	Single-Band
Wireless Communication Standard	802.11ax
Special Features	Bandwidth Management, Cloud Monitoring, QoS, WPS



Durable
Metal Casing



Compact Desktop Design

Image: A diagram illustrating the compact dimensions of the TP-Link ER-605 router, showing its length (158 mm), width (101 mm), and height (25 mm), along with a note about 4kv lightning protection and durable metal casing.

4. SETUP GUIDE

Follow these steps to set up your TP-Link ER-605 Gigabit VPN Router for the first time. It is recommended to power off all network devices (modem, existing router) before beginning.

4.1 Hardware Connection

1. **Power Off:** Disconnect the power from your modem and any existing router.
2. **Connect Modem:** Connect an Ethernet cable from your modem's LAN port to the **WAN** port (Port 1) on the ER-605 router.
3. **Connect Computer:** Connect an Ethernet cable from one of the **LAN** ports (Ports 2-5) on the ER-605 router to your computer's Ethernet port.
4. **Power On:** Connect the power adapter to the ER-605 router and plug it into a power outlet. Then, power on your

modem. Wait for the modem to fully boot up and establish an internet connection (usually indicated by stable status lights).

5. **Verify Lights:** Check the LED indicators on the ER-605. The Power and System LEDs should be solid green. The WAN port LED should be lit, indicating a connection to the modem.

4.2 Initial Configuration

1. **Access Web Interface:** Open a web browser on the computer connected to the router. In the address bar, type <http://192.168.0.1> or <http://tplinkwifi.net> and press Enter.
2. **Login:** The default username and password are admin for both. You will be prompted to change these for security reasons during the first login.
3. **Run Quick Setup:** Follow the on-screen Quick Setup Wizard to configure your basic internet settings, including WAN connection type (e.g., Dynamic IP, Static IP, PPPoE).
4. **Network Settings:** Configure LAN IP address, DHCP server settings, and other network parameters as needed for your business environment.
5. **Firmware Update:** It is highly recommended to check for and install the latest firmware updates from the TP-Link official website to ensure optimal performance and security.

5. OPERATING THE ROUTER

The ER-605 offers various advanced features for network management and security.

5.1 Dual WAN Load Balancing

The router supports multiple WAN ports, allowing you to connect to two different internet service providers for increased bandwidth and reliability. Configure load balancing policies through the web interface under **Network > WAN** settings.

5.2 VPN Configuration

The ER-605 supports IPsec, PPTP, and L2TP VPN protocols for secure remote access and site-to-site connections. For OpenVPN, an Omada SDN Controller is required.

Highly Secure VPN

ER605 supports IPSec/L2TP/PPTP/OpenVPN (Open VPN requires Omada SDN Controller)

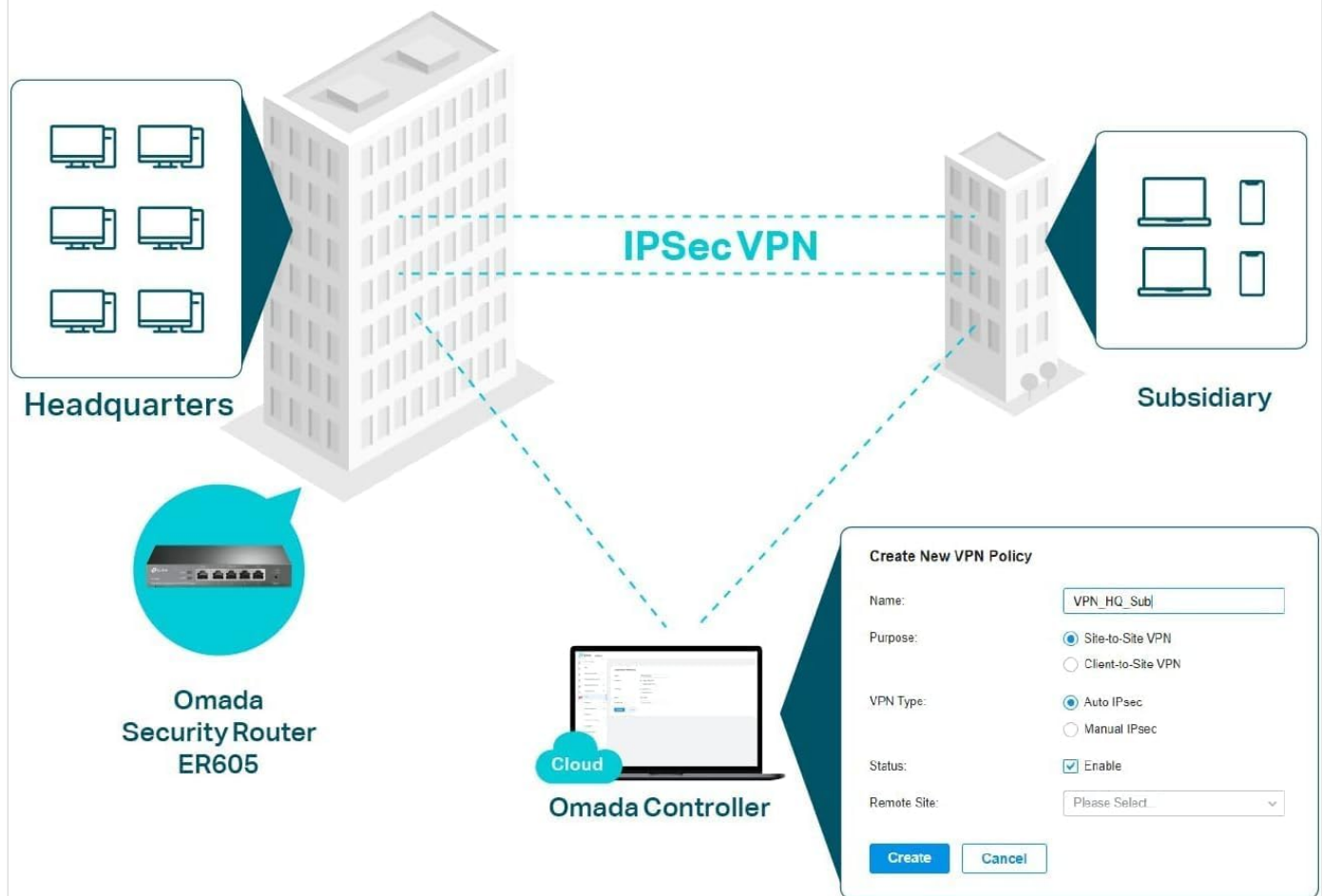


Image: A diagram illustrating the secure VPN capabilities of the ER605, showing how it connects headquarters and subsidiary networks via IPsec VPN, managed through an Omada Controller in the cloud.

To configure VPN settings, navigate to **VPN** in the web management interface. Detailed instructions for each VPN type are available in the online help documentation.

5.3 Security Features

The router includes a powerful SPI firewall, DoS defense, IP/MAC/URL filtering, and VLAN support to protect your network. These features can be configured under the **Security** section of the web interface.

Abundant Security Features

Advanced firewall policies, Speed Test, DoS Defense, IP/MAC/URL filtering, and more security functions protect your network and data.

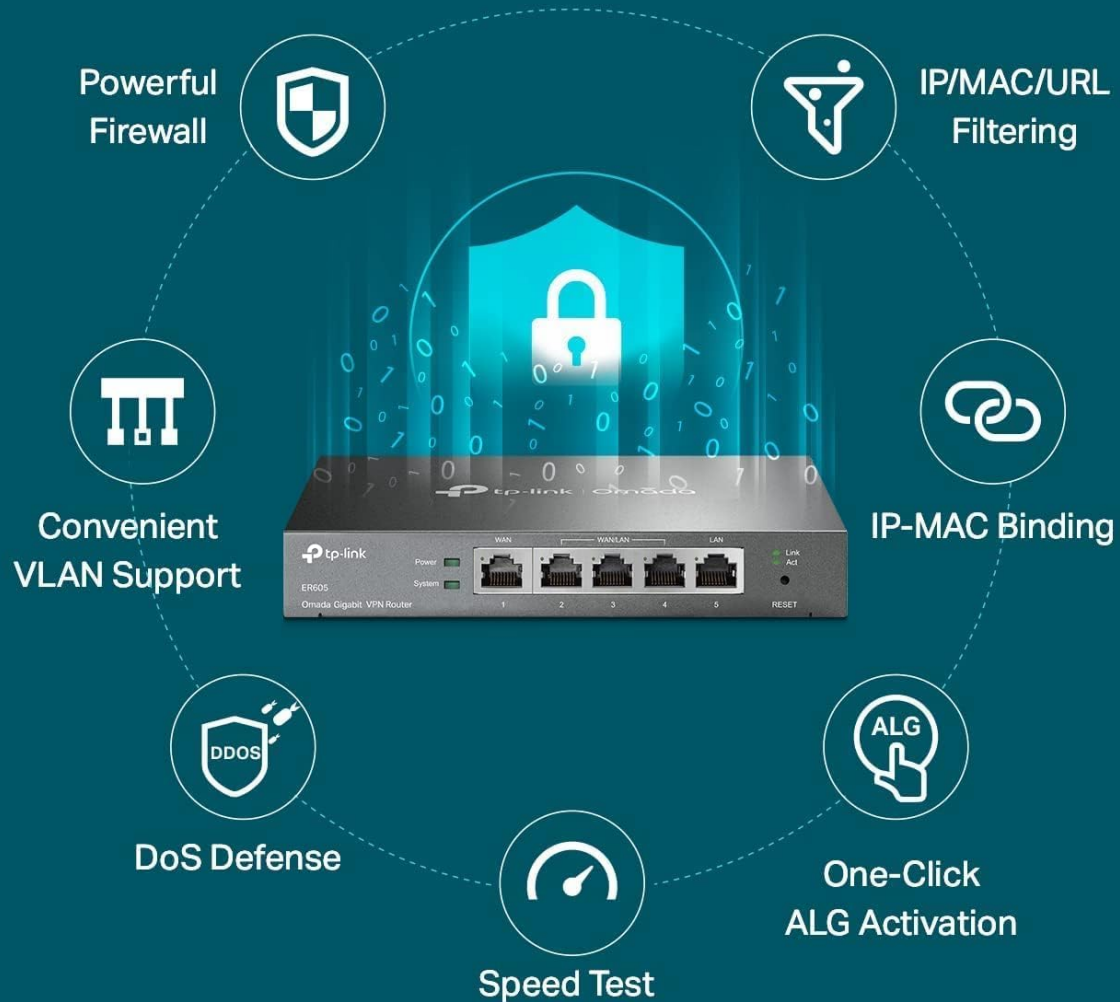


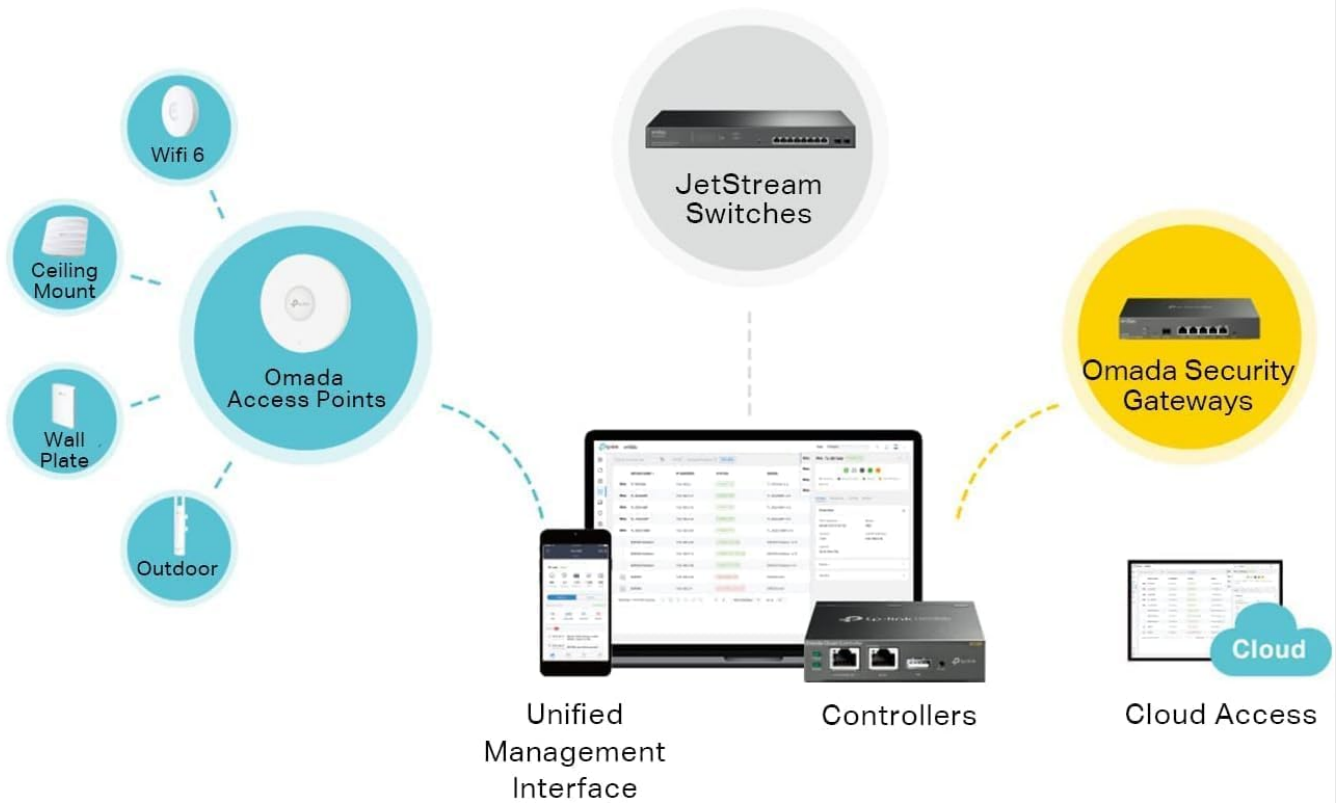
Image: An infographic highlighting the abundant security features of the TP-Link ER-605, including Powerful Firewall, IP/MAC/URL Filtering, IP-MAC Binding, One-Click ALG Activation, Speed Test, DoS Defense, and Convenient VLAN Support.

5.4 Omada SDN Integration

The ER-605 seamlessly integrates into the Omada Software Defined Networking (SDN) platform, allowing for remote and centralized management of your network devices, including gateways, access points, and switches. This can be managed via the Omada app or cloud controller.

Omada SDN & Flexible Management

Omada SDN platform integrates network devices, including gateways, access points & switches with multiple control options offered - Hardware Controller & Software Controller.



* Standalone mode also applies.

* For SDN usage, make sure your devices/controllers are either equipped with or can be upgraded to SDN version. SDN controllers work only with SDN gateways, access points and switches. Non-SDN controllers work only with non-SDN access points.

Image: A diagram showing the Omada SDN platform integrating various network devices like Omada Access Points, JetStream Switches, and Omada Security Gateways, all managed through a Unified Management Interface via Controllers or Cloud Access, with the ER605 as a key component.

Smarter Cloud Solution for Business Networking

As the gateway that seamlessly integrates into Omada Software Defined Networking (SDN) Platform, ER605 allows for remote and centralized management, anywhere, anytime.



Image: An illustration of the Omada Software Defined Networking (SDN) platform, demonstrating how the ER605 integrates for remote and centralized management, showing various network components like Wall-Plate AP, Outdoor AP, Ceiling Mount AP, Wi-Fi 6 AP, JetStream PoE Switches, and Omada Security Router ER605, all accessible via Cloud Access and Omada Hardware/Software Controller, with mobile app icons for download.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your ER-605 router.

- **Firmware Updates:** Periodically check the TP-Link official website for new firmware versions. Updating firmware can improve performance, add new features, and fix security vulnerabilities.
- **Regular Reboots:** Rebooting the router every few weeks can help clear temporary data and resolve minor network issues.
- **Physical Cleaning:** Use the provided cleaning cloth or a soft, dry cloth to gently wipe the exterior of the router. Ensure ventilation holes are free from dust accumulation to prevent overheating.
- **Backup Configuration:** Regularly back up your router's configuration settings through the web interface (System Tools > Backup & Restore). This allows for quick restoration in case of a factory reset or device replacement.

- **Secure Location:** Place the router in a cool, dry, and well-ventilated area, away from direct sunlight, heat sources, and excessive moisture.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your ER-605 router.

7.1 No Internet Access

- **Check Cables:** Ensure all Ethernet cables are securely connected to the correct ports (modem to WAN, computer to LAN).
- **Modem Status:** Verify that your modem is working correctly and has an active internet connection. Try rebooting the modem.
- **Router LEDs:** Check the WAN LED on the ER-605. If it's off or blinking erratically, there might be an issue with the connection to the modem or your ISP.
- **IP Settings:** Ensure your computer is set to obtain an IP address automatically (DHCP).
- **Router Reboot:** Power cycle the ER-605 router by unplugging it for 10 seconds and plugging it back in.
- **ISP Connection Type:** Confirm that the WAN connection type configured on the router matches your ISP's requirements (e.g., Dynamic IP, Static IP, PPPoE).

7.2 Cannot Access Web Management Page

- **IP Address:** Ensure you are using the correct default IP address (192.168.0.1) or domain name (tplinkwifi.net).
- **Cable Connection:** Verify your computer is directly connected to one of the router's LAN ports.
- **IP Conflict:** Check if your computer has a static IP address that conflicts with the router's subnet. Set it to obtain an IP automatically.
- **Firewall/Antivirus:** Temporarily disable any firewall or antivirus software on your computer that might be blocking access.
- **Browser Cache:** Clear your browser's cache and cookies, or try a different web browser.

7.3 Slow Network Speed

- **Bandwidth Management:** Check if any bandwidth limits or QoS rules are configured that might be restricting speed.
- **Cable Quality:** Ensure you are using high-quality Ethernet cables (Cat5e or Cat6) for all connections.
- **ISP Speed:** Verify your internet speed with your ISP.
- **Firmware:** Ensure your router's firmware is up to date.

7.4 Factory Reset

If issues persist, you may need to perform a factory reset. This will revert all settings to their default values.

1. With the router powered on, locate the **RESET** button on the front panel.
2. Use a paperclip or a thin object to press and hold the RESET button for approximately 5-10 seconds until the System LED blinks rapidly.
3. Release the button. The router will reboot with factory default settings.

8. WARRANTY AND SUPPORT

TP-Link provides a limited warranty for this product. Please refer to the official TP-Link website for detailed warranty information specific to your region.

For technical support, firmware updates, and additional resources, please visit the official TP-Link support page:

[TP-Link Official Support](#)

You can also find frequently asked questions (FAQs) and community forums on their website for further assistance.

