CISCO DESIGNED RV345

Cisco RV345 VPN Router User Manual

Model: RV345 | Brand: CISCO DESIGNED

1. Product Overview

The Cisco RV345 VPN Router is designed to provide secure, high-performance network connectivity for small businesses. It features dual WAN support for load balancing and failover, ensuring continuous internet access. With 16 Gigabit Ethernet ports, it offers extensive wired connectivity for various devices.

Key features include robust VPN capabilities for secure remote access and site-to-site connections, and two USB ports for connecting 3G/4G modems or flash drives, adding flexibility to your network setup.



Figure 1: Angled view of the Cisco RV345 VPN Router, showcasing its compact design and port layout.

2. Setup and Installation

2.1. What's in the Box

- Cisco RV345 Router
- Power Adapter
- Ethernet Cable
- Pointer Card
- Technical Support Contact Card

- Quick Start Guide

2.2. Physical Installation

The RV345 router can be deployed as a desktop unit or rack-mounted using the included brackets. Ensure adequate ventilation around the device.

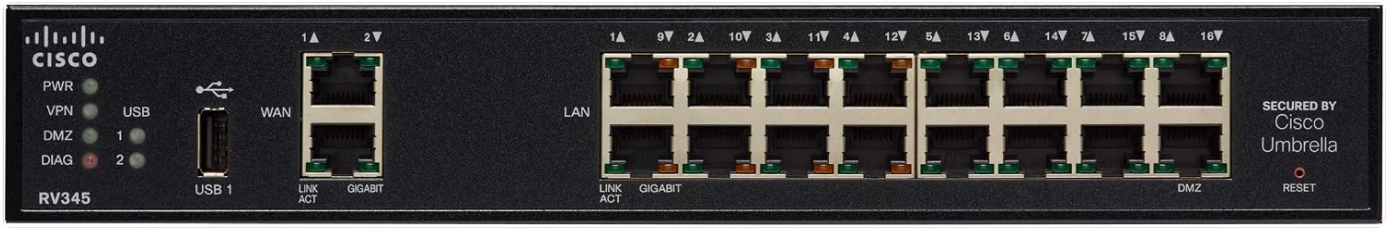


Figure 2: Front panel of the Cisco RV345, showing the PWR, VPN, USB, DMZ, DIAG LEDs, USB ports, WAN ports, and 16 LAN ports.

2.3. Initial Connection

1. Connect the power adapter to the router and a power outlet.
2. Connect your internet service provider's modem to one of the WAN ports (WAN1 or WAN2) using an Ethernet cable.
3. Connect a computer to any of the LAN ports using an Ethernet cable.
4. Power on the router. Wait for the PWR LED to turn solid green.

2.4. First-time Configuration

Access the router's web-based management interface by opening a web browser and entering the default IP address (typically 192.168.1.1). Log in with the default credentials (refer to the Quick Start Guide for details). It is highly recommended to immediately update the router's firmware to the latest version available from the Cisco support website to ensure optimal performance and security.

3. Operating the Router

3.1. Network Connectivity

- **Dual WAN Support:** The RV345 supports dual WAN connections, allowing for load balancing to distribute network traffic across two internet connections or failover to automatically switch to a backup connection if the primary one fails.
- **LAN Ports:** The router is equipped with 16 Gigabit Ethernet LAN ports for high-performance wired connectivity to your internal network devices.
- **USB Ports:** Two USB ports are available to support a 3G/4G modem for backup internet connectivity or a flash drive for file sharing or logging.

3.2. VPN Functionality

The RV345 offers robust and secure VPN capabilities, including standard IPsec, Layer 2 Tunneling Protocol (L2TP) over IPsec, and Cisco IPsec. These features enable secure remote access for employees and secure site-to-site connections between multiple business locations.

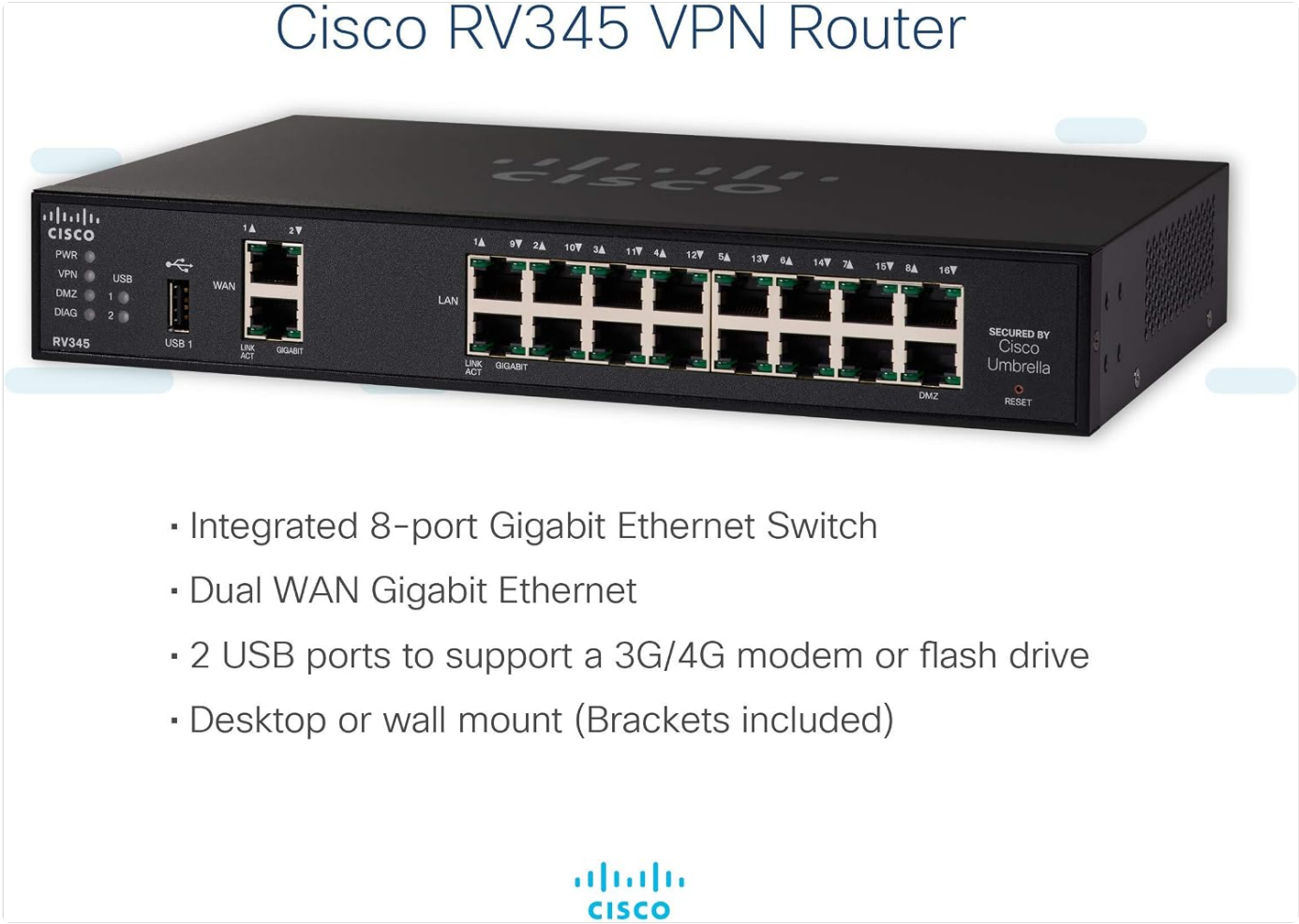


Figure 3: The Cisco RV345 highlighting its integrated 8-port Gigabit Ethernet Switch, Dual WAN Gigabit Ethernet, 2 USB ports, and desktop/wall mount options.

4. Maintenance

4.1. Firmware Updates

Regularly check the Cisco support website for the latest firmware updates. Firmware updates often include security patches, bug fixes, and performance enhancements. It is crucial to keep your router's firmware up-to-date for optimal operation and security.

4.2. Resetting to Factory Defaults

In some cases, it may be necessary to reset the router to its factory default settings. This can be done via the web management interface or by pressing and holding the physical reset button on the device for more than 10 seconds. Note that resetting the device will erase all custom configurations.

5. Troubleshooting

5.1. Common Issues

- **No Internet Connectivity:** Verify that the WAN cable is securely connected and that your ISP modem is functioning correctly. Check the WAN status in the router's web interface.
- **Slow Performance:** Ensure the latest firmware is installed. Check for high network traffic or potential conflicts. Consider enabling Quality of Service (QoS) settings if available.
- **Configuration Issues:** If the router behaves unexpectedly after configuration changes, consider reverting to a previous saved configuration or performing a factory reset.

5.2. Technical Support

For advanced troubleshooting or issues not covered in this manual, refer to the technical support contact card included with your product or visit the official Cisco support website. Having your product model and serial number ready will expedite the support process.

6. Specifications

Feature	Specification
Model Name	RV345
RAM	1024 MB
Flash Memory Size	256 MB
LAN Ports	16 Gigabit Ethernet
WAN Ports	Dual Gigabit Ethernet
USB Ports	2 (for 3G/4G modem or flash drive)
Operating System	Cisco IOS
Item Weight	2.7 pounds
Product Dimensions (LxWxH)	17.72 x 11.73 x 3.23 inches
Color	Black
First Available Date	February 22, 2017

7. Warranty and Support

The Cisco RV345 VPN Router comes with a limited lifetime protection. This includes one year of technical support and free software fixes for the term of the warranty. For detailed warranty terms and conditions, please refer to the documentation provided with your product or the Cisco official website.

To access certain features or support, you may need to register your device with a Cisco Smart Account. This process helps manage licenses and access support resources efficiently.

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