For Small Business

# Cisco RV180W Multifunction VPN Router

## Reliable business-class multifunction router that evolves with your business needs

**Figure 1.** Cisco RV180W Multifunction VPN Router (Front Panel)


## Highlights

- Affordable, high-performance Gigabit Ethernet ports enable large files and multiple users
- Versatile device can function either as a wireless router, wireless bridge, or wireless repeater
- Wireless-N access point provides highly secure untethered connectivity
- IP Security (IPsec) site-to-site VPN helps enables secure connectivity for remote employees and multiple offices
- Built-in secure policy index (SPI) firewall, robust authentication, and access control safeguard sensitive business data
- Easy to set up and use with wizard-based configuration

In a dynamic business environment, your network needs to be more powerful, flexible, and accessible than ever. Your employees need the ability to stay connected to the people and services they need – inside and outside the office. And your network needs the agility to meet constantly changing business needs.

The Cisco RV180W Multifunction VPN Router delivers highly secure broadband connectivity, high-speed wireless networking, and remote access for multiple offices and remote workers. Built for maximum flexibility, it delivers a comprehensive combination of business-class features and ease of use in a scalable solution that is priced for small businesses.

The Cisco RV180W features a built-in 4-port Gigabit Ethernet managed switch that lets you connect network devices and transfer files and data at high speed, providing the power and performance you need to keep multiple employees productive. Intelligent quality of service (QoS) features let you prioritize network traffic to keep critical network applications like voice and video running at their best.

To provide untethered connectivity to employees throughout the office, the Cisco RV180W also includes support for wireless-N technology. This multifunction device can serve either as a wireless router, wireless access point, wireless bridge, or repeater, providing investment protection and flexibility when business needs change. You can get started using the RV180W in the way that best meets your needs, then change modes, and repurpose the solution as your business and network grow, resulting in maximum return on your technology investment.

For employees who need to connect from home, on the road, or from remote offices, the Cisco RV180W features integrated enterprise-class encryption and authentication, including support for IPsec and Point-to-Point Tunneling Protocol (PPTP) VPN client connections and IPsec gateway-to-gateway VPN tunnels. Advanced virtual network support lets you set up wireless guest access hotspots to provide highly secure connectivity to clients and visitors.

Easy to set up and use right out of the box, both solutions feature simple wizard-based configuration to get you up and running in minutes.

The Cisco RV180W VPN Router is a cost-effective way to provide business-class performance, security, and reliability your employees need today, with the flexibility to change as your business evolves.

**Figure 2.** Cisco RV180W Multifunction VPN Router (Back Panel)

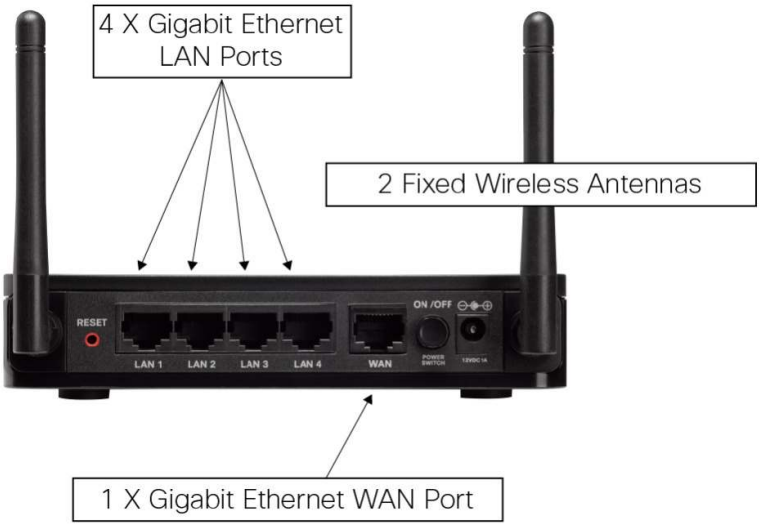
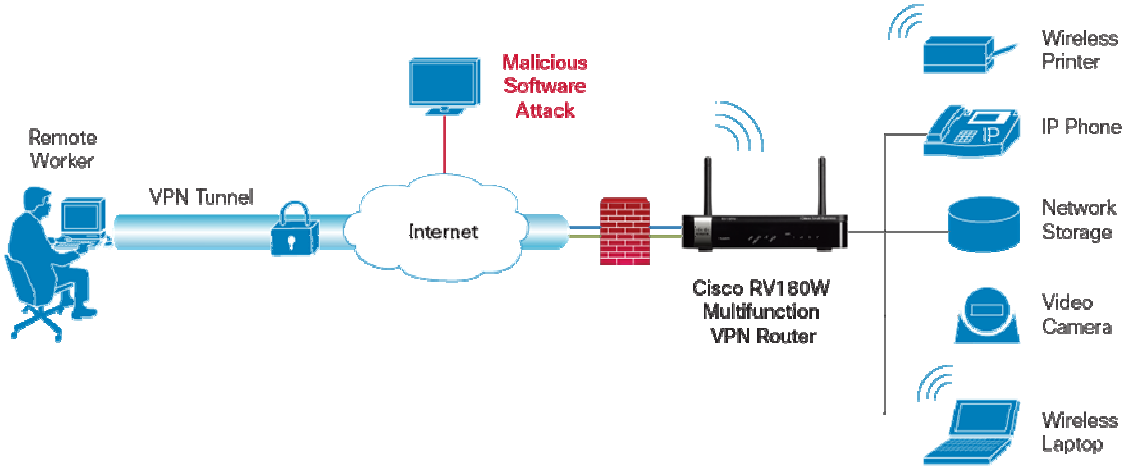


**Figure 3.** Typical Configuration for Cisco RV180W Multifunction VPN Router




## Features

- Built-in 4-port Gigabit managed switch delivers faster data transfer for bandwidth-intensive applications
- Wireless-N (2.4 GHz) support provides enhanced wireless throughput and coverage
- Client bridge mode lets you expand your network by connecting your secure wireless connection to a second Ethernet network – without cabling and installation
- IPSec Virtual Private Network (VPN) tunneling support lets you extend highly secure network connectivity to remote offices and users using advanced encryption and authentication
- Sophisticated QoS prioritizes network traffic for demanding voice, video, and data applications
- Separate virtual network support helps enable secure guest access and helps safeguard sensitive data
- Secure guest access helps enable safe wireless connectivity for visitors
- IPv6 support lets you employ future networking applications and operating systems without costly upgrades
- Browser-based setup and configuration wizards help enable fast, simple deployment
- Smooth, tested interoperability with other Cisco networking products makes it easy to add switches, phone and voice, and video surveillance

Table 1 lists the specifications of the Cisco RV180W VPN Router.

**Table 1. Specifications**

| Specifications | Description |
|---|---|
| Standards | IEEE 802.11n, 802.11g, 802.11b, 802.3, 802.3u, 802.1D, 802.1p, 802.11e, 802.11w (Rapid Spanning Tree) 802.1X (security authentication), 802.1Q (VLAN), 802.11i (Wi-Fi Protected Access [WPA2] security), 802.11e (wireless QoS), IPv4 (RFC 791), IPv6 (RFC 2460), Routing Information Protocol (RIP) v1 (RFC 1058), RIP v2 (RFC 1723) |
| Ports | LAN, WAN |
| Switch | Power button (on/off) |
| Buttons | Reset |
| Cabling Type | Category 5e or better |
| LEDs | Power, WPS, WAN, wireless, LAN (ports 1–4), Additional LEDs for multifunction router, access point, bridge on RV180W |
| Operating System | Linux |

| Specifications | Description |
|---|---|
| **Network** | |
| Network Protocols | • Dynamic Host Configuration Protocol (DHCP) server<br>• Point-to-Point Protocol over Ethernet (PPPoE)<br>• Point-to-Point Tunneling Protocol (PPTP)<br>• Layer 2 Tunneling Protocol (L2TP)<br>• DNS proxy<br>• DHCP relay agent<br>• IGMP proxy and multicast forwarding<br>• Rapid Spanning Tree Protocol (RSTP)<br>• Network Address Translation (NAT), Port Address Translation (PAT)<br>• One-to-One NAT<br>• Port management<br>• Port mirroring<br>• Software configurable DMZ to any LAN IP address<br>• Session Initiation Protocol (SIP) Application Layer Gateways (ALG) |
| LAN | • Four (4) 10/100/1000 Mbps Gigabit LAN ports with managed switch |
| WAN | • One (1) 10/100/1000 Mbps Gigabit WAN port |
| WLAN | • Built-in high-speed 802.11n wireless access point |
| Routing Protocols | • Static routing<br>• Dynamic routing<br>• RIP v1 and v2<br>• Inter-VLAN routing |
| Network Address Translation (NAT) | Port Address Translation (PAT), Network Address Port Translation (NAPT) protocol |
| VLAN Support | Port-based and 802.1Q tag-based VLANs |
| Number of VLANs | 4 active VLANs (3-4096 range) |
| IPv6 | • Dual-stack IPv4 and IPv6<br>• 6to4 tunneling<br>• Multicast Listener Discovery (MLD) for IPv6 (RFC2710)<br>• Stateless address auto-configuration<br>• DHCPv6 Server for IPv6 Clients on LAN<br>• DHCP v6 client for WAN connectivity<br>• Internet Control Message Protocol (ICMP) v6<br>• Static IPv6 Routing<br>• Dynamic IPv6 Routing with RIPng |
| Network Edge (DMZ) | Software configurable to any LAN IP address |
| Layer 2 | 802.1Q-based VLANS, 4 active VLANS |
| **Security** | |
| Firewall | Stateful packet inspection (SPI) firewall, port forwarding and triggering, denial-of-service (DoS) prevention, software-based DMZ<br>DoS Attacks Prevented:<br>SYN Flood Detect Rate (max/sec)<br>Echo Storm (ping pkts/sec)<br>ICMP Flood (ICMP pkts/sec)<br>Block UDP Flood<br>Block TCP Flood<br>Block Java, Cookies, Active-C, HTTP Proxy |
| Access Control | IP access control lists; MAC-based wireless access control |
| Content Filtering | Static URL blocking or keyword blocking |
| Secure Management | HTTPS, username/password complexity |
| WPS | Wi-Fi Protected Setup |
| Certificate Management | Self-signed SSL certificate, import/export certificate using Privacy-Enhanced Mail (PEM) format |
| User Privileges | 2 levels of access: admin and guest |

| Specifications | Description |
|---|---|
| **VPN** | |
| IPsec VPN | 10 gateway-to-gateway IPSec tunnels |
| QuickVPN | 10 Quick VPN tunnels using Cisco QuickVPN client |
| PPTP VPN | 10 PPTP tunnels for remote client access |
| Encryption | Triple Data Encryption Standard (3DES) |
| Authentication | MD5/SHA1 |
| VPN Pass-through | IPsec/PPTP/Layer 2 Tunneling Protocol (L2TP) pass-through |
| **Quality of Service** | |
| QoS | • 802.1p port-based priority on LAN port, application-based priority on WAN port<br>• 4 queues<br>• Differentiated Services Code Point support (DSCP)<br>• Class of Service (CoS)<br>• Bandwidth Management for service prioritization |
| Jumbo Frame | Supports Jumbo Frame on Gigabit ports – at least 1536B |
| **Performance** | |
| NAT Throughput | 800 Mbps |
| Concurrent Sessions | 12,000 |
| IPsec VPN Throughput (3DES/AES) | 50 Mbps |
| **Configuration** | |
| Web User Interface | Simple, browser-based configuration (HTTP/HTTPS) |
| **Management** | |
| Management Protocols | Web browser, Simple Network Management Protocol (SNMP) v3, Bonjour, Universal Plug and Play (UPnP) |
| Event Logging | Local, syslog, email alerts |
| Network Diagnostics | Ping, Traceroute, and DNS Lookup |
| Upgradability | Firmware upgradable through web browser, imported/exported configuration file |
| System Time | Supports NTP, Day Light Savings, Manual entry |
| Languages | GUI supports English, French, Italian, German, Spanish, and Japanese |
| **Wireless** | |
| Radio and modulation type | 802.11b: direct sequence spread spectrum (DSSS), 802.11g: orthogonal frequency division multiplexing (OFDM), 802.11n: OFDM |
| WLAN | 2.4GHz IEEE 802.11n standard-based access point with 802.11b/g compatibility |
| Operating channels | 11 North America, 13 most of Europe, auto channels selection |
| Wireless isolation | Wireless isolation between clients |
| External antennas | 2 fixed antennas |
| Antenna gain in dBi | 1.8 dBi |
| Transmit power | 802.11b: 17 dBm +/- 1.5 dBm; 802.11g: 15 dBm +/- 1.5 dBm; 802.11n: 12.5 dBm +/- 1.5 dBm |
| Receiver sensitivity | -87 dBm at 11 Mbps, -71 dBm at 54 Mbps, -68 dBm at mcs15, HT20, -66 dBm at mcs15, HT40 |
| Radio Frequency | Single-band, works on 2.4GHz |
| Wireless Domain Service (WDS) | Allows wireless signals to be repeated by up to 3 compatible devices |
| Operating Modes | Multifunction device-wireless router, access point mode with WDS, Point-to-Point Bridge mode with WDS, Point-Multi Point Bridge mode with WDS, Repeater mode with WDS |
| Active WLAN clients | Recommended 10 concurrent client (max 16) in wireless router mode; and 20 concurrent client (max32) in wireless Access Point mode |
| Multiple SSIDs | Supports multiple Service Set Identifiers (SSIDs), up to 4 separate virtual networks |
| Wireless VLAN map | Supports SSID to VLAN mapping with wireless client isolation |
| WLAN security | Wired Equivalent Privacy (WEP), WPA, WPA2-PSK, WPA2-ENT, 802.11i |

| Specifications | Description |
|---|---|
| Wi-Fi Multimedia (WMM) | WMM with QoS (802.1e), WMM power save (WMM-PS) |
| **Environmental** | |
| Power | 12V 1A |
| Certifications | FCC class B, CE, IC, Wi-Fi |
| Operating temperature | 0°to 40℃ (32°to 104℉) |
| Storage temperature | –20°to 70℃ (–4°to 158℉) |
| Operating humidity | 10 to 85 percent noncondensing |
| Storage humidity | 5 to 90 percent noncondensing |

**Table 2. Ordering Information**

| Part Number | Product Name |
|---|---|
| RV180W-A-K9-AR | Cisco RV180W Multifunction VPN Router |
| RV180W-A-K9-AU | Cisco RV180W Multifunction VPN Router |
| RV180W-A-K9-CA | Cisco RV180W Multifunction VPN Router |
| RV180W-E-K9-CN | Cisco RV180W Multifunction VPN Router |
| RV180W-E-K9-G5 | Cisco RV180W Multifunction VPN Router |
| RV180W-A-K9-NA | Cisco RV180W Multifunction VPN Router |

## Cisco Limited Lifetime Warranty for Cisco Small Business Series Products

This Cisco Small Business product comes with limited lifetime hardware warranty for complete peace of mind. Product warranty terms and other information applicable to Cisco products are available at www.cisco.com/go/warranty.

## Cisco Small Business Support Service

This optional service offers affordable, 3-year peace-of-mind coverage. This subscription-based, device-level service helps you protect your investment and derive maximum value from Cisco Small Business products. Delivered by Cisco and backed by your trusted partner, this comprehensive service includes software updates, extended access to the Cisco Small Business Support Center, and expedited hardware replacement, should it be required.

## For More Information

For more information on the RV180W Multifunction VPN Router visit: www.cisco.com/go/rv180w.

For more information on Cisco Small Business products and solutions, visit: www.cisco.com/smallbusiness.

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