Cisco RV220W Network Security Firewall

High-Performance, Highly Secure Connectivity for the Small Office

For
Small
Business
CISCO

The Cisco® RV220W Network Security Firewall lets small offices enjoy secure, reliable, wired and wireless, broadband connectivity – to the Internet, other offices, and employees working remotely. This high-performance wireless router helps improve productivity by providing fast access to the large files and rich media applications your employees use every day.

Designed to provide greater flexibility for highly secure, remote connections, the RV220W supports both IP Security (IPsec) and Secure Sockets Layer (SSL) VPN, often referred to as hybrid VPN. IPsec VPN enables other offices to connect just as if they were physically connected to the primary business network. SSL VPN, which allows secure connections through any web browser, is application-specific, offering a means of extending controlled access to business partners and others, without compromising critical data.

To help further safeguard your network and data, the Cisco RV220W includes business-class security features and optional cloud-based Web filtering. Setup is simple, using a browser-based configuration utility and wizards.

Figure 1.　Cisco RV220W Network Security Firewall

Features

- High-performance Gigabit Ethernet connections, internally and externally, plus a built-in wireless-N access point, speeds file transfers to improve productivity
- 4-port 10/100/1000 Mbps Gigabit Ethernet switch
- Selectable, dual-band wireless radio helps reduce interference to improve wireless performance
- Hybrid VPN (IPsec and SSL VPN) features enable secure access for other offices, employees working remotely, and business partners
- Proven firewall, support for separate virtual networks, and strong wireless security help protect the network and business assets
- Optional Cisco ProtectLink Web security service delivers cloud-based web threat protection for added protection
- Intuitive, browser-based device manager with setup wizards makes installation and use easy

Figure 2 shows the back panel of the Cisco RV220W. Figure 3 shows a typical configuration.
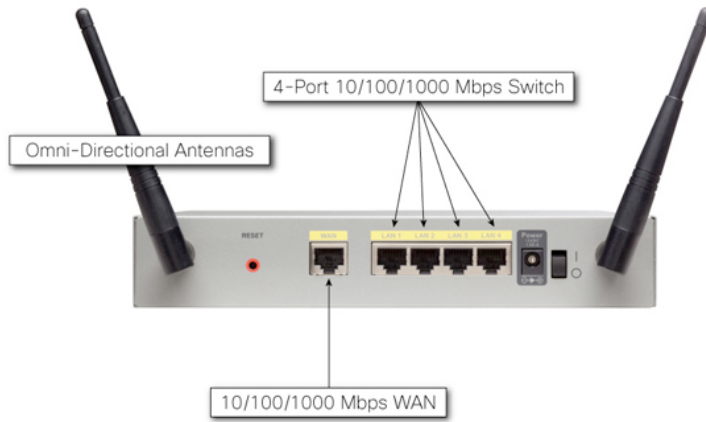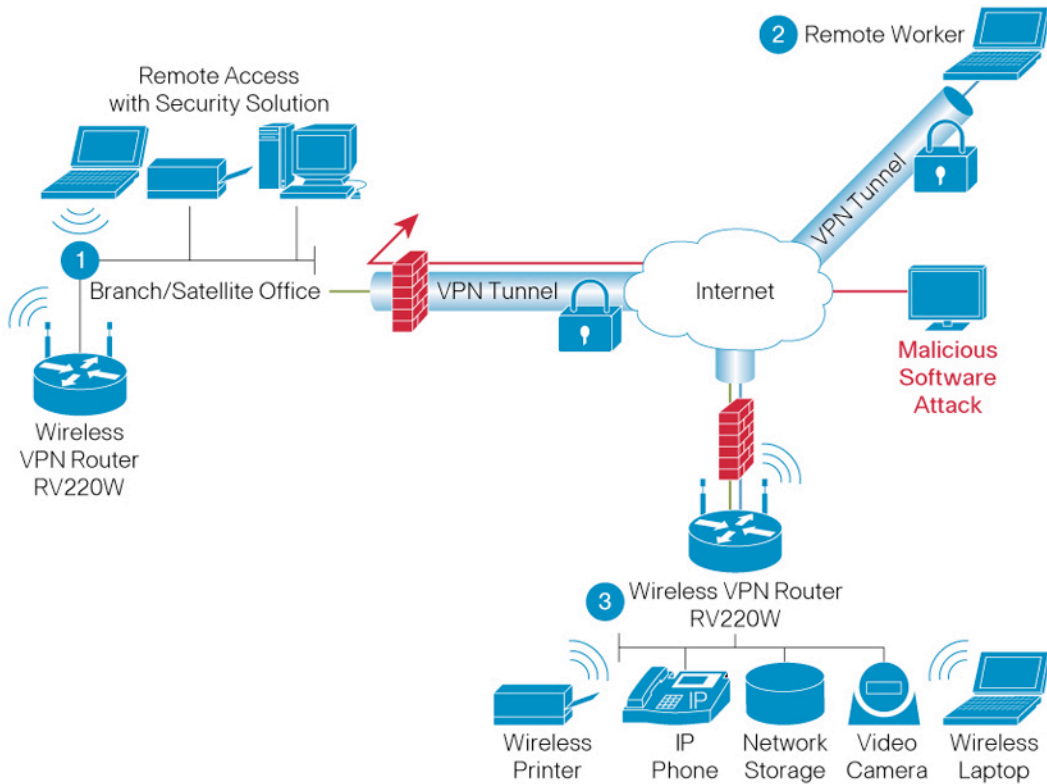
Figure 2. Back Panel of the Cisco RV220W

Figure 3. Typical Configuration

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Product Specifications

Table 1 lists the product specifications for the Cisco RV220W.

Table 1.   Product Specifications

Description	Specification
Standards	• IEEE 802.11n, 802.11g, 802.11b, • 802.3, 802.3u • 802.1X (security authentication) • 802.1Q (VLAN) • 802.11i (Wi-Fi Protected Access [WPA2] security) • 802.11e (wireless quality of service [QoS]) • IPv4 (RFC 791), IPv6 (RFC 2460) • Routing Information Protocol (RIP) v1 (RFC 1058), RIP v2 (RFC 1723)
Network protocols	• Dynamic Host Configuration Protocol (DHCP) server, DHCP relay agent • Static IP • Point-to-Point Protocol over Ethernet (PPPoE) • Point-to-Point Tunneling Protocol (PPTP) • Layer 2 Tunneling Protocol (L2TP) • Spanning Tree Protocol (STP) • Dynamic DNS (DDNS) (DynDNS, TZO)
Routing protocols	• Static • RIP v1, v2
NAT protocol	• Port Address Translation (PAT) • Network Address Port Translation (NAPT), NAT traversal, one-to-one NAT • Session Initiation Protocol Application Layer Gateway (SIP ALG)
IPv6	• Dual-stack IPv4 and IPv6 • 6-to-4 • Stateless address auto-configuration • DHCP v6 • Internet Control Message Protocol (ICMP) v6
Network edge (DMZ)	Software configurable on any IP address
VLAN support	Port-based and 802.1q tag-based VLANs, inter-VLAN routing
Number of VLANs	16 active VLANs (1-4096 range)
Security	
Firewall	Stateful packet inspection (SPI) firewall
Access control	IP access control lists; MAC-based wireless access control, wireless profiles
Content filtering	Static URL blocking or keyword blocking
Web filtering	Optional Cisco ProtectLink Web cloud-based security service
Secure management	HTTPS, username/password, X.509 v3 certificates
802.1x supplicant	Port-based RADIUS authentication (Extensible Authentication Protocol [EAP] MD5, Protected EAP [PEAP])
Certificates	X.509 v3 certificates, certificate upload using PEM format
VPN	
IPsec	25 IPsec site-to-site tunnels
QuickVPN	25 QuickVPN tunnels for remote client access
SSL VPN	5 SSL VPN tunnels
SSL VPN platforms	Microsoft Windows 2000/XP/Vista 32 and 64-bit/Windows 7; Mac OSX 10.4+
PPTP	10 PPTP tunnels for remote access
Encryption	Data Encryption Standard (DES), Triple Data Encryption Standard (3DES) and Advanced Encryption Standard (AES) encryption (128, 192, 256-bit)
Authentication	MD5/SHA1 authentication

Description	Specification
VPN pass-through	PPTP, L2TP, IPsec
Advanced VPN	Dead Peer Detection (DPD), IPsec NAT traversal, Group VPN
Quality of Service	
Prioritization types	802.1p port-based priority on LAN port, application-based priority on WAN port
Queues	4 queues
Performance	
NAT throughput	800 Mbps
Concurrent sessions	6000
IPsec VPN throughput (3DES / AES)	90 Mbps
SSL VPN throughput	25 Mbps
Configuration	
Web user interface	Simple browser-based device manager (HTTP/HTTPS)
Management	
Management protocols	Web browser, Simple Network Management Protocol (SNMP) version 1, 2c, 3, Bonjour, Universal Plug and Play (UPnP), Simple Network Time Protocol (SNTP)
Event logging	Local, syslog, email alerts, packet captures
Upgradability	Firmware upgradable through web browser, imported/exported configuration in text format

Wireless LAN Specification

Table 2 lists the wireless specifications for the Cisco RV220W.

Table 2.   Wireless Specifications

Description	Specification
Product Dimensions (W x H x D)	8.66" x 1.54" x 6.69" 220 mm x 39 mm x 170 mm
Ports	1 x 10/100/1000 Mbps Gigabit Ethernet WAN 4 x 10/100/1000 Mbps Gigabit Ethernet LAN Power
Spec/modulation	• 802.11 b/g/a/n • Binary phase-shift keying (BPSK) • Quadrature phase-shift keying (QPSK), • Quadrature amplitude modulation (QAM): 16-QAM, 64-QAM
Channels	FCC: • 2.4 GHz: channels 1-11 • 5.15 – 5.25 GHz: channels 36, 40, 44, 48 • 5.725 – 5.825 GHz: channels 149, 153, 157, 161, 165 ETSI: • 2.4 GHz: channels 1-13 • 5.15 – 5.25 GHz: Dynamic Frequency Selection (DFS), channels 36, 40, 44, 48 • 5.25 – 5.35 GHz: DFS, channels 52, 56, 60, 64 • 5.47 – 5.725 GHz: DFS, channels 100, 104, 108, 112, 116, 132, 136, 140
Channel selection	Auto channel selection
External antennas	Two detachable antennae with reverse SMA connectors
Internal antenna	One fixed internal antenna
Antenna gain in dBi	Two omni-directional antennae with maximum 2 dBi gain One directional internal antenna with maximum 6.6 dBi gain
Transmit power	• 802.11b: 17.5 dBm +/– 1.5 dBm • 802.11g: 17.5 dBm +/– 1.5 dBm • 802.11a: 13.5 dBm +/– 1.5 dBm • 802.11n: 13.5 dBm +/– 1.5 dBm

Description	Specification
Receiver sensitivity	• 802.11b: –90 dBm @11 Mbps • 802.11g: –74 dBm @54 Mbps • 802.11a: –71 dBm @54 Mbps • 802.11n: –66 dBm @270 Mbps (2.4 GHz) • 802.11n: –63 dBm @270 Mbps (5 GHz)
Active WLAN clients	Up to 64 clients
Multiple SSIDs	Supports multiple SSIDs, up to 4 separate virtual networks with separate wireless profiles
Wireless VLAN map	Supports SSID to VLAN mapping with wireless client isolation
WMM	Wireless multimedia with QoS (802.1e)
U-APSD	Wi-Fi Multimedia (WMM) power save
Wireless Distribution System (WDS)	Allows wireless signals to be repeated by up to 4 compatible repeaters

System Specifications

Table 3 lists the system specifications for the Cisco RV220W.

Table 3.   System Specifications

Description	Specification
Power	12V 1A
Certification	FCC class B, CE, IC, WiFi
Operating temperature	0º to 40ºC (32º to 104ºF)
Storage temperature	–20º to 70ºC (–4º to 158ºF)
Operating humidity	10% to 85% noncondensing
Storage humidity	5% to 90% noncondensing

Ordering Information

Table 4 lists ordering information for the Cisco RV220W.

Table 4.   Ordering Information

Part Number	Product Name
RV220W-A-K9-NA	Cisco RV220W Network Security Firewall (USA)
RV220W-E-K9-G5	Cisco RV220W Network Security Firewall (Europe, UK – English)
RV220W-N-K9-AU	Cisco RV220W Network Security Firewall (Australia, New Zealand)

Cisco Limited Lifetime Warranty for Cisco Small Business Products

This Cisco Small Business product comes with a limited lifetime hardware warranty with return to factory replacement and a 1-year limited warranty for fans and/or power supplies. In addition, Cisco offers telephone technical support at no charge for the first 12 months following the date of purchase and software bug fixes, as available, for the warranty term. Product warranty terms and other information applicable to Cisco products are available at www.cisco.com/go/warranty.

Cisco Services

Cisco Small Business products are supported by professionals in Cisco Small Business Support Center locations worldwide who are specifically trained to understand your needs. The Cisco Small Business Support Community, an online forum, enables you to collaborate with your peers and reach Cisco technical experts for support information.

Cisco Small Business

Cisco Small Business Support Service

The optional Cisco Small Business Support 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 Cisco Small Business products and solutions, visit: www.cisco.com/smallbusiness.

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