

## Cisco RV016 Multi WAN VPN Router Cisco Small Business Routers

Secure Remote Access at the Heart of the Small Business Network

### Highlights

- Multi-WAN connectivity -- up to 7 ports can be set up for load balancing and connection redundancy
- 16 switched 10/100 Ethernet ports
- Full IPsec VPN capabilities for up to 100 remote connections
- Advanced stateful packet inspection firewall to help keep your network safe

**Figure 1.** Cisco RV016 Multi WAN VPN Router



### Product Overview

The Cisco® RV016 Multi WAN VPN Router (Figure 1) is an advanced connection-sharing network solution for your small business needs. Like any router, it lets multiple computers in your office share a connection to a public or private network. However, the 16 ports on this router feature unprecedented versatility. Up to seven of the switched ports can be set up for load balancing or backup connections to help you stay connected and to reduce network bottlenecks. In addition, a dedicated network edge (DMZ) port gives you a publicly accessible channel so you can set up a web or FTP server, unimpeded by the powerful security features of the router.

The VPN capability creates encrypted “tunnels” through the Internet, providing highly secure connections into your office network for up to 100 remote-office or traveling users. Users connecting through a VPN tunnel are attached to your company’s network -- with secure access to files, email, and your intranet -- just as if they were in the building. You can also use the VPN capability to allow users on your small office network to securely connect out to a corporate network.

The Cisco RV016 can serve as a Dynamic Host Configuration Protocol (DHCP) server and has a powerful stateful packet inspection (SPI) firewall to help protect your PCs against intruders and most known Internet attacks. It also supports the Cisco ProtectLink Web security service, which helps block malicious websites and control web access to protect your business. Configuration is a snap with the web browser-based configuration utility.

As the heart of your small office network, the connection-redundant Cisco RV016 Multi WAN VPN Router gives you the connection reliability your business needs.

## Features

- SPI firewall for maximum security
- 16-port 10/100 switch supports automatic medium dependent interface (MDI) and MDI crossover (MDI-X) and up to 200 Mbps of throughput per port
- 5 of the 16 ports can be configured as WAN/LAN ports
- Two dedicated WAN ports for load-balanced connectivity to the Internet
- Dynamic URL scanning through the Cisco ProtectLink Web security service (optional)
- Full IP Security (IPsec) VPN capability using Data Encryption Standard (DES) and Triple DES (3DES) encryption
- Support for MD5 and SHA authentications algorithms
- Allows up to 100 simultaneous IPsec VPN tunnels
- Management via web, Simple Network Management Protocol (SNMP), and setup wizards for easy setup by administrators
- Bandwidth management capabilities for improved quality of service (QoS)
- Supports up to 50 QuickVPN users
- Limited lifetime warranty

## Specifications

Table 1 contains the specifications, package contents, and minimum requirements for the Cisco RV016 Multi WAN VPN Router.

**Table 1.** Specifications for the Cisco RV016 Multi WAN VPN Router

Specifications	
<b>Standards</b>	IEEE 802.3, 802.3u
<b>Ports</b>	Sixteen 10/100 RJ-45 ports, including 2 Internet ports, 1 DMZ port, 8 LAN ports, and 5 configurable Internet/LAN ports
<b>Buttons</b>	Reset
<b>Cabling type</b>	Category 5 Ethernet
<b>LEDs</b>	Diag, System, LAN/Act 1 through 13, Internet/Act 1 through 7, DMZ
<b>Universal Plug and Play (UPnP) able/certified</b>	Certified
<b>Operating system</b>	Linux
Performance	
<b>Network Address Translation (NAT) throughput</b>	200 Mbps
<b>IPsec throughput</b>	97 Mbps
Security	
<b>Firewall</b>	SPI firewall
<b>Denial-of-service (DoS) prevention</b>	Blocks various DoS attacks
<b>Access rules</b>	Up to 50 entries
<b>Port forwarding</b>	Up to 30 entries
<b>Port triggering</b>	Up to 30 entries

<b>URL filtering</b>	Static list by domain or keywords (included), dynamic filtering through Cisco ProtectLink Web security service (optional)
<b>Network</b>	
<b>Multi-WANs</b>	Supports up to 7 WAN ports with load balancing, allowing certain WAN ports to be dedicated to specified IP ranges and services
<b>WAN type</b>	DHCP, static IP, Point-to-Point Protocol over Ethernet (PPPoE), Point-to-Point Tunneling Protocol (PPTP), Telstra BigPond, Dynamic DNS
<b>Protocol binding</b>	Protocols can be bound to a particular WAN port
<b>DHCP</b>	DHCP server, DHCP client
<b>DNS</b>	DNS proxy, Dynamic DNS (DynDNS, 3322, PeanutHull)
<b>NAT</b>	Many-to-one, one-to-one
<b>DMZ</b>	DMZ port, DMZ host
<b>Routing</b>	Static and Routing Information Protocol (RIP) versions 1 and 2
<b>Quality of Service</b>	
<b>Port-based QoS</b>	Configurable per LAN port
<b>Service-based QoS</b>	Supports rate control or priority
<b>Rate control</b>	Upstream/downstream bandwidth can be configured per service
<b>Priority</b>	Each service can be mapped to one of the 3 priority levels
<b>VPN</b>	
<b>IPsec</b>	100 IPsec tunnels for branch office connectivity
<b>QuickVPN</b>	50 QuickVPN users for remote client access
<b>PPTP</b>	Built-in PPTP server supporting 10 PPTP clients
<b>Encryption</b>	DES, 3DES, Advanced Encryption Standard (AES)-128, AES-192, AES-256
<b>Authentication</b>	MD5, SHA1
<b>Internet Key Exchange (IKE)</b>	Supports IKE
<b>IPsec NAT Traversal (NAT-T)</b>	Supported for gateway-to-gateway and client-to-gateway tunnels
<b>Dead peer detection (DPD)</b>	Support for DPD
<b>VPN pass-through</b>	PPTP, Layer 2 Tunneling Protocol (L2TP), IPsec
<b>Management</b>	
<b>Web based</b>	HTTPS
<b>SNMP</b>	Supports SNMP versions 1 and 2c
<b>Log/monitoring</b>	Syslog, email alert, VPN tunnels status monitor
<b>Environmental</b>	
<b>Dimensions W x H x D</b>	11 x 1.75 x 9.50 in. (279.4 x 44.45 x 241.3 mm)
<b>Weight</b>	3.25 lb (1.475 kg)
<b>Power</b>	AC 100~240V, 50-60 Hz
<b>Certification</b>	FCC Class B, CE Class B
<b>Operating temperature</b>	32° to 104°F (0° to 40°C)
<b>Storage temperature</b>	32° to 158°F (0° to 70°C)
<b>Operating humidity</b>	10% to 85%, noncondensing
<b>Storage humidity</b>	5% to 90%, noncondensing
<b>Package Contents</b>	
<ul style="list-style-type: none"> <li>• Cisco RV016 Multi WAN VPN Router</li> <li>• AC power cable</li> <li>• CD with user guide in PDF format and QuickVPN client</li> <li>• Registration card</li> <li>• Rack-mounting kit</li> </ul>	

Minimum Requirements
<ul style="list-style-type: none"><li>• Broadband connection for Internet connection sharing</li><li>• Network adapter with Ethernet network cable and TCP/IP installed per PC</li><li>• Web-based configuration: Java/cookies/SSL-enabled web browser</li></ul>
Product Warranty
Limited lifetime hardware warranty with return to factory replacement.

### 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. To download software updates, go to: [www.cisco.com/cisco/web/download/index.html](http://www.cisco.com/cisco/web/download/index.html).

Product warranty terms and other information applicable to Cisco products are available at [www.cisco.com/go/warranty](http://www.cisco.com/go/warranty).

### For More Information

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



**Americas Headquarters**  
Cisco Systems, Inc.  
San Jose, CA

**Asia Pacific Headquarters**  
Cisco Systems (USA) Pte. Ltd.  
Singapore

**Europe Headquarters**  
Cisco Systems International BV Amsterdam,  
The Netherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at [www.cisco.com/go/offices](http://www.cisco.com/go/offices).

Cisco and the Cisco Logo are trademarks of Cisco Systems, Inc. and/or its affiliates in the U.S. and other countries. A listing of Cisco's trademarks can be found at [www.cisco.com/go/trademarks](http://www.cisco.com/go/trademarks). Third party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1005R)