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Data Sheet

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 Trend Micro ProtectLink Gateway Security Service, which enables you to dynamically block unwanted or unsafe URLs and emails. 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 and email scanning through Trend Micro ProtectLink Gateway 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

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

URL filtering	Static list by domain or keywords (included), dynamic filtering through Trend Micro ProtectLink Gateway Security Service (optional)
Network	
Multi-WANs	Supports up to 7 WAN ports with load balancing, allowing certain WAN ports to be dedicated to specified IP ranges and services
WAN type	DHCP, static IP, Point-to-Point Protocol over Ethernet (PPPoE), Point-to-Point Tunneling Protocol (PPTP), Telstra BigPond, Dynamic DNS
Protocol binding	Protocols can be bound to a particular WAN port
DHCP	DHCP server, DHCP client
DNS	DNS proxy, Dynamic DNS (DynDNS, 3322, PeanutHull)
NAT	Many-to-one, one-to-one
DMZ	DMZ port, DMZ host
Routing	Static and Routing Information Protocol (RIP) versions 1 and 2
Quality of Service	
Port-based QoS	Configurable per LAN port
Service-based QoS	Supports rate control or priority
Rate control	Upstream/downstream bandwidth can be configured per service
Priority	Each service can be mapped to one of the 3 priority levels
VPN	
IPsec	100 IPsec tunnels for branch office connectivity
QuickVPN	50 QuickVPN users for remote client access
PPTP	Built-in PPTP server supporting 10 PPTP clients
Encryption	DES, 3DES, Advanced Encryption Standard (AES)-128, AES-192, AES-256
Authentication	MD5, SHA1
Internet Key Exchange (IKE)	Supports IKE
IPsec NAT Traversal (NAT-T)	Supported for gateway-to-gateway and client-to-gateway tunnels
Dead peer detection (DPD)	Support for DPD
VPN pass-through	PPTP, Layer 2 Tunnelling Protocol (L2TP), IPsec
Management	
Web based	HTTPS
SNMP	Supports SNMP versions 1 and 2c
Log/monitoring	Syslog, email alert, VPN tunnels status monitor
Environmental	
Dimensions W x H x D	11 x 1.75 x 9.50 in. (279.4 x 44.45 x 241.3 mm)
Weight	3.25 lb (1.475 kg)
Power	AC 100~240V, 50-60 Hz
Certification	FCC Class B, CE Class B
Operating temperature	32°to 104°F (0°to 40°C)
Storage temperature	32°to 158°F (0°to 70°C)
Operating humidity	10% to 85%, noncondensing
Storage humidity	5% to 90%, noncondensing
Package Contents	

- Cisco RV016 Multi WAN VPN Router
- AC power cable
- CD with user guide in PDF format and QuickVPN client
- Registration card
- Rack-mounting kit

Minimum Requirements
• Broadband connection for Internet connection sharing • Network adapter with Ethernet network cable and TCP/IP installed per PC • Web-based configuration: Java/cookies/SSL-enabled web browser
Product Warranty
3-year limited hardware warranty with return to factory replacement and 90-day limited software warranty.

Cisco Limited Warranty for Cisco Small Business Series Products

This Cisco Small Business product comes with a 3-year limited hardware warranty with return to factory replacement and a 90-day limited software warranty. In addition, Cisco offers software application updates for bug fixes and telephone technical support at no charge for the first 12 months following the date of purchase. To download software updates, go to: http://www.cisco.com/go/smallbiz.

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

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