CISCO

Data Sheet

Cisco RV042 Dual WAN VPN Router
Cisco Small Business Routers

Secure Remote Access at the Heart of the Small Business Network

Highlights

- Dual WAN connections for load balancing and connection redundancy
- Built-in 4-port 10/100 Ethernet switch
- Full IPsec VPN capabilities for up to 50 remote connections
- Advanced stateful packet inspection firewall helps keep your network safe

Figure 1.   Cisco RV042 Dual WAN VPN Router

Product Overview

The Cisco® RV042 Dual 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, with dual WAN ports, the Cisco RV042 lets you use a second connection as a backup to help you stay connected, or it can be used to access a second provider to increase available bandwidth and balance traffic.

The Cisco RV042 also features a built-in 4-port full-duplex 10/100 Ethernet switch to connect four PCs directly, or you can connect more hubs and switches to create as big a network as you need.

The VPN capability creates encrypted "tunnels" through the Internet, based on IP Security (IPsec) or Point-to-Point Tunneling Protocol (PPTP), allowing up to 50 remote offices or traveling users to securely connect into your office network from offsite. 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 to a corporate network.

The Cisco RV042 can serve as a Dynamic Host Configuration Protocol (DHCP) server and has a powerful stateful packet inspection (SPI) firewall to 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 RV042 Dual WAN VPN Router gives you the connection reliability your business needs.

Features

- SPI firewall for maximum security

- Two WAN ports for load-balanced connectivity to the Internet

- 4-port 10/100 switch supports automatic medium dependent interface (MDI) and MDI crossover (MDI-X) and up to 200 Mbps of throughput per port

- Dynamic URL and email scanning through the Trend Micro ProtectLink Gateway Security Service (optional)

- Full IPsec VPN capability using Data Encryption Standard (DES), Triple DES (3DES), and Advanced Encryption Standard (AES) encryption algorithms

- Support for MD5 and SHA authentication algorithms

- Allows up to 50 simultaneous IPsec and 5 PPTP 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 RV042 Dual WAN VPN Router. The table also lists other Cisco devices the router works with.

Table 1.   Specifications for the Cisco RV042 Dual WAN VPN Router

Specifications	
Standards	IEEE 802.3, 802.3u
Ports	Four 10/100 RJ-45 ports, one 10/100 RJ-45 Internet port, one 10/100 RJ-45 DMZ/Internet port
Buttons	Reset
Cabling type	Unshielded twisted pair (UTP) Category 5
LEDs	System, DIAG, DMZ/Internet, DMZ Mode, 1 through 4
Performance	
Network Address Translation (NAT) throughput	100 Mbps
IPsec throughput	59 Mbps
Security	
Firewall	SPI firewall
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 the ProtectLink Gateway Security Service (optional)
Network	
Dual WANs	Can be configured for Smartlink backup or load balance
Protocol binding	Protocols can be bound to particular WAN port under load balancing
DHCP	DHCP server, DHCP client

DNS	DNS proxy, Dynamic DNS (DynDNS, 3322, PeanutHull)
NAT	Many-to-one, one-to-one
Network edge (DMZ)	DMZ port, DMZ host
Routing	Static and Routing Information Protocol (RIP) versions 1 and 2
Management	
Web-based	HTTPS
SNMP	Supports SNMP versions 1 and 2c
Logging	Syslog, email alert
QoS	
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	50 IPsec tunnels for branch office connectivity
QuickVPN	50 QuickVPN users for remote client access
PPTP	Built-in PPTP server supporting 5 PPTP clients
Encryption	DES, 3DES, AES-128, AES-192, AES-256
Authentication	MD5, SHA1
IPsec NAT Traversal (NAT-T)	Supported for gateway-to-gateway and client-to-gateway tunnels
VPN pass-through	PPTP, Layer 2 Tunnelling Protocol (L2TP), IPsec
Environmental	
Dimensions	5.12 x 1.52 x 7.87 in (130 x 38.5 x 200 mm)
Weight	1.27lb (0.5755 kg)
Power	12V 1A
Certification	FCC Class B, CE Class B, cUL
Operating temperature	0ºC to 40ºC (32ºF to 104ºF)
Storage temperature	0ºC to 70ºC (32ºF to 158ºF)
Operating humidity	10% to 85% noncondensing
Storage humidity	5% to 90%, noncondensing
Package Contents	

- Cisco RV042 Dual WAN VPN Router
- Wall-mount AC power adapter
- Setup CD with user guide in PDF format
- Ethernet cable
- Quick installation guide

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

Also Works With:	
Cisco SLM224G 24-Port 10/100 + 2-Port Gigabit Smart Switch	24-port 10/100 + 2-port 10/100/1000 Gigabit smart switch with 2 combo Small Form Factor Pluggable (SFPs)
Cisco WAP200 Wireless-G Access Point	Wireless-G access point with Power over Ethernet and RangeBooster
Trend Micro ProtectLink Gateway Security Service (LBATMPG05)	5-seat license

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.

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