

Cisco RV180 VPN Router

Secure, high-performance connectivity at a price you can afford.

Figure 1. Cisco RV180 VPN Router (Front Panel)



Highlights

- Affordable, high-performance Gigabit Ethernet ports allow large file transfers and accommodates media rich applications
- IP Security (IPsec) site-to-site VPN provides highly secure connectivity for remote employees and multiple offices
- Integrated firewall, robust authentication, and access control safeguard sensitive business data
- Easy to set up and use with wizard-based configuration

As business applications become more powerful and complex, they are also increasing demands on your network. To stay productive and keep in touch with customers, business partners, and colleagues, your employees need reliable, high-performance connectivity – inside and outside the office.

The Cisco RV180 VPN Router delivers highly secure broadband connectivity and remote access for multiple offices and remote workers. Designed specifically for small businesses, it delivers a comprehensive combination of business-class features and ease of use in one affordable solution.

The Cisco RV180 features a built-in 4-port Gigabit Ethernet managed switch that lets you connect network devices and transfer files and data at high speed. 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 help you connect remote users or additional offices, the Cisco RV180 offers 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.

Easy to set up and use right out of the box, the router features a simple wizard-based configuration to get you up and running in minutes.

With the Cisco RV180 VPN Router, you can take advantage of enterprise-class performance, security, and reliability – at a price your small business can afford.

Features

- Built-in 4-port Gigabit managed switch delivers faster data transfer for bandwidth-intensive applications
- Sophisticated QoS prioritizes network traffic for demanding voice, video, and data applications
- IPSec VPN tunneling support lets you extend secure network connectivity to remote offices and users with advanced encryption and authentication
- Separate virtual network support helps enable secure guest access and helps safeguard sensitive data
- 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

Figure 2. Cisco RV180 VPN Router (Back Panel)

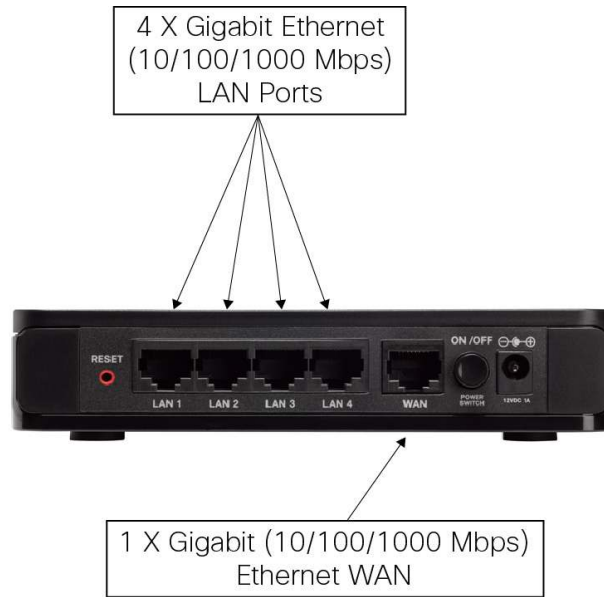


Figure 3. Typical Configuration for Cisco RV180 VPN Router

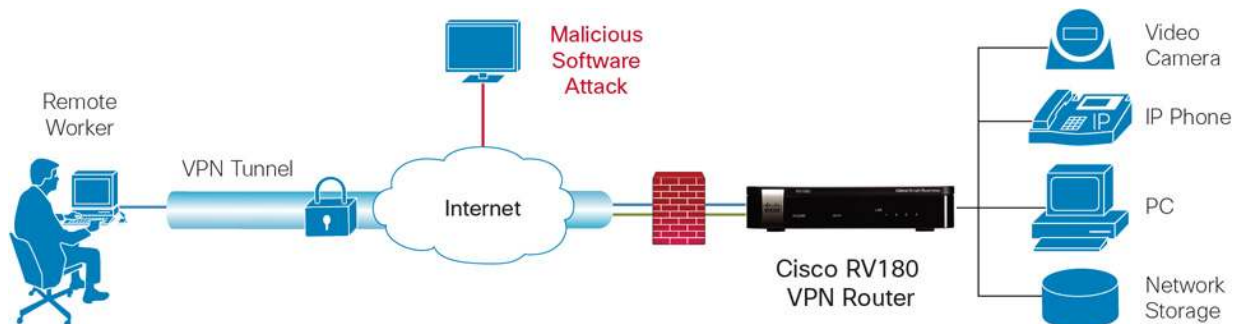


Table 1 lists the specifications of the Cisco RV180 VPN Router.

Table 1. Specifications

Specifications	Description
Standards	IEEE, 802.3, 802.3u, 802.1D, 802.1p, 802.11e, 802.11w (Rapid Spanning Tree) 802.1X (security authentication), 802.1Q (VLAN), 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, WAN, LAN (ports 1–4)
Operating system	Linux
Network	
Network Protocols	<ul style="list-style-type: none"> • Dynamic Host Configuration Protocol (DHCP) server • Point-to-Point Protocol over Ethernet (PPPoE) • Point-to-Point Tunneling Protocol (PPTP) • Layer 2 Tunneling Protocol (L2TP) • DNS proxy • DHCP relay agent • IGMP Proxy and multicast forwarding • Rapid Spanning Tree Protocol (RSTP) • Dynamic Domain Name System (TZO, DynDNS, 3322.org) • Network Address Translation (NAT), Port Address Translation (PAT) • One-to-One NAT • Port management • Port mirroring • Software configurable DMZ to any LAN IP address • 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
Routing Protocols	<ul style="list-style-type: none"> • Static routing • Dynamic routing • RIP v1 and v2 • Inter-VLAN routing
Network Address Translation (NAT) Protocol	Port Address Translation (PAT), Network Address Port Translation (NAPT)
VLAN Support	Port-based and 802.1Q tag-based VLANs
Number of VLANs	4 active VLANs (3-4096 range)
IPv6	<ul style="list-style-type: none"> • Dual-stack IPv4 and IPv6 • 6to4 tunneling • Multicast Listener Discovery (MLD) for IPv6 (RFC2710) • Stateless address auto-configuration • DHCPv6 Server for IPv6 Clients on LAN • DHCP v6 client for WAN connectivity • Internet Control Message Protocol (ICMP) v6 • Static IPv6 Routing • Dynamic IPv6 Routing with RIPng
Network Edge (DMZ)	Software configurable to any LAN IP address
Layer 2	802.1Q-based VLANs, 4 active VLANs

Specifications	Description
Security	
Firewall	Stateful packet inspection (SPI) firewall, port forwarding and triggering, denial-of-service (DoS) prevention, software-based DMZ DoS attacks prevented: <ul style="list-style-type: none"> • SYN Flood Detect Rate (max/sec) • Echo Storm (ping pkts/sec) • ICMP Flood (ICMP pkts/sec) • Block UDP Flood • Block TCP Flood • 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
Certificate Management	Self-signed SSL certificate, import/export certificate using Privacy-Enhanced Mail (PEM) format
User Privileges	2 levels of access: admin and guest
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), Advanced Encryption Standard (AES)
Authentication	MD5/SHA1
VPN Pass-through	IPsec/PPTP/Layer 2 Tunneling Protocol (L2TP) pass-through
Quality of Service	
QoS	<ul style="list-style-type: none"> • 802.1p port-based priority on LAN port, application-based priority on WAN port • 4 queues • Differentiated Services Code Point support (DSCP) • Class of Service (CoS) • Bandwidth Management for service prioritization
Jumbo Frame Support	<ul style="list-style-type: none"> • 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, daylight savings, manual entry
Languages	GUI supports English, French, Italian, German, Spanish, Chinese, and Japanese

Specifications	Description
Environmental	
Power	12V 1A
Certifications	FCC class B, CE, IC, Wi-Fi
Operating Temperature	0° to 40°C (32° to 104°F)
Storage Temperature	-20° to 70°C (-4° to 158°F)
Operating Humidity	10 to 85 percent noncondensing
Storage Humidity	5 to 90 percent noncondensing

Table 2. Ordering Information

Part Number	Product Name
RV180-K9-AU	Cisco RV180 VPN Router (Australia & New Zealand)
RV180-K9-JP	Cisco RV180 VPN Router (Japan)
RV180-K9-CN	Cisco RV180 VPN Router (China)
RV180-K9-G5	Cisco RV180 VPN Router (Europe, Emerging, Asia)
RV180-K9-NA	Cisco RV180 VPN Router (U.S, Canada and LATAM)

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For More Information

For more information on the RV180 VPN Router visit: www.cisco.com/go/rv180.

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



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