Cisco RV340, RV340W, RV345, and RV345P Router Datasheet

CONTENT

Contact Us

Tel: +1-626-239-8066 (USA)   +852-3050-1066 / +852-3174-6166 /

Fax: +852-3050-1066 (Hong Kong)
Email: cisco@router-switch.com (Sales Inquiries)
ccie-support@router-switch.com (CCIE Technical Support)

OVERVIEW

The Cisco® RV340 Series routers connect small businesses securely to the Internet. The routers protect employees from threats such as viruses, network attacks, unwanted content, and malicious websites. All that without compromising the online experience.

Implementing advanced Unified Threat Management (UTM) features on a high-performing router platform creates one of the most desirable small business connectivity solutions.

Standard are dual WAN ports, business class firewall, and flexible VPN options. Integrated Wi-Fi-5, 16-port LAN switch, and PoE LAN orts are available in model variants.

APPEARANCE

Figure 1. Cisco RV340 Router

Figure 2. Cisco RV340W Router

Figure 3. Cisco RV345 Router

Figure 4. Cisco RV345P Router

FEATURES AND BENEFITS

Table 1. Features and benefits of Cisco RV340 Series routers

Feature	Benefit
Dual WAN	High resiliency and load balancing for reliable Internet connectivity.
Integrated switch	4- or 16-port*integrated gigabit switch to connect the devices directly to the router. PoE+* for powering connected phones and access point from the router. (RV340, RV340W: 4 Ports, RV345 16 Ports, RV345P: 16 Ports and PoE)
Integrated WiFi-5	Provides connectivity for all wireless devices. Wi-Fi-5 allows router to communicate with multiple devices simultaneously, decreases the time each device has to wait for a signal, and dramatically speeds up the wireless network. (RV340W only)
3G/4G failover via USB modem	Provides high reliability and connectivity when broadband connection is down.
Enhanced VPN functionality	Protects employees and their data. Enterprise class, easy to set up. Encrypt all your traffic between sites. Flexible options. IPSec IKEv2, IKev1, Anyconnect SSL, L2TP.
Support for the Cisco AnyConnect® Secure Mobility Client	Ideal for remote access by mobile devices.
Dynamic web filtering	Enables business efficiency and security while connecting to the Internet, allows Internet access policies for end devices and Internet applications to help ensure performance and security.
Client identification	Identifies the type of connected devices and allows setting policies.
Application visibility	Generates reports of Internet applications being used by clients and allows setting policies.
Cisco Umbrella	The Umbrella integration allows One-Click configuration for Cisco Umbrella

integration	cloud-based web security service.
Intrusion Prevention System (IPS)	Blocking network connections that are determined too risky for the organization.
Antivirus	Antivirus delivers deep extensive protection against all types of viruses.
Cisco Plug and Play (PnP)	Cloud-based Zero Touch Deployment. Improve operational efficiency with a simple, secure, and integrated method for device onboarding.
Automatic software download and update	Keeps the router constantly up-to-date without user intervention. Quickest way to mitigate 0-Day vulnerabilities.

SECURITY

IT security is a priority for business of all sorts and sizes. With the size of an office or a remote office typically being rather small, IT staff is less likely to be available and offer user support. Any office environment requires the same functionality as the corporate office in terms of security that may include firewall, VPN, IPS, blocking applications and web protection.

The Cisco 340 Series offers comprehensive security and best-in-class performance.

● Firewall: Stateful, scalable, and flexible.

● UTM features (your choice of on prem or in the cloud) — Unified security features provide reliable and highly secure Internet connectivity with cloud application detection and policies.

● Secure connectivity: Flexible VPN functionality with support of Cisco AnyConnect® Secure Mobility Client.

● Hardware-accelerated performance: Dual core ARM-based architecture with embedded hardware-accelerated VPN.

● Dual-WAN with load-balancing and 3G/4G failover brings resiliency and increased bandwidth.

● Partner- or customer-centric single pane-of-glass network management with the integration into FindIT Manager or web UI.

● Automated software updates to keep the firmware current.

The security features include an on-board UTM feature set and a cloud-based Cisco Umbrella integration. These features can be used independently from each other and require a software license. When the Cisco Umbrella integration is activated, the on-board web security is turned off. All other security features will work.

Cisco Umbrella is a cloud-based web security service that delivers automatic protection from malicious or compromised websites, phishing, C2 Callbacks, and malware. With Cisco Umbrella, you gain visibility and enforcement at the DNS layer, so you can block requests to malicious domains and IPs before a connection to your network or endpoints is ever made. And because it's built into the foundation of the Internet and delivered from the cloud, Umbrella is the simplest security product to deploy and delivers powerful, effective protection. The router integration allows for easy setup, enhanced visibility and reporting, and a small business–friendly branch license for Cisco Umbrella.

The on-board UTM security features include: Intrusion prevention, gateway antivirus, application identification, client identification, on-board web security. These features protect your network from attacks from the Internet and at the same allow for setting policies for corporate usage of the Internet by limiting Internet surfing to appropriate site categories and eliminating unwanted network traffic, hence boosting employee productivity and overall network performance.

LICENSING

To operate the router no license is required. It will work with full performance and all VPN features are turned on.

1. The customer can add advanced security features to the router using a license. The license will enable IPS, Antivirus, Web Security, App ID, and Client ID. The licensed security features can be trialed at no cost for 90 days.

2. To integrate the router into Cisco Umbrella as a "network device type" and to have the advantage of detailed security reporting for all hosts behind the router, a Cisco Umbrella license is required. For customers using only the RV routers, an affordable Cisco Umbrella branch license is available.

Table 2. License

Type	Product ID	Description
RV Security License	LS-RV34X-SEC-1YR=	Enables dynamic web filter, Internet security and Application Visibility, Client Identification, IPS, and Antivirus.
Umbrella RV Branch License	UMB-BRAN-RV	1-Year Cisco RV-Branch license. Uses Cisco Umbrella Licensing.

PRODUCT SPECIFICATIONS

Table 3. Specifications

Description	Specification
WAN ports	2 RJ-45 Gigabit Ethernet
LAN ports	4 RJ-45 Gigabit Ethernet RV340, RV340W 16 RJ-45 Gigabit Ethernet RV345 16 RJ-45 Gigabit Ethernet RV345P (LAN 1, 2, 3, 4 and LAN 9, 10, 11, 12 are PoE 802.3at, max 30W per port up to 120W total
Console/serial	1 RJ-45 port for future use. Port is disabled
USB	2 for external 3G/4G modem or flash drive (USB-3, USB-2)
Firewall	Stateful packet inspection, up to 980 Mbps throughput for TCP and UDP
LEDs	Power, VPN, WAN, LAN
Quality of Service (QoS)	Traffic Classes, WAN Queuing, WAN Policing, WAN Bandwidth Management, Assign detailed QoS (Class of Service (CoS)/Differentiated Services Code Point (DSCP)/policies) settings per application or end device
Web Security	Dynamic web filtering: Cloud based, more than 80 categories, more than 450 million domains classified
Application Visibility	Application identification: Assign policies to Internet applications 500 unique Apps
Client Identification	Identifies and categorizes clients dynamically. Assigns policies based on end device category and operating system.

Intrusion Prevention System	IDS/IPS inspects network packets, logs and/or blocks a wide range of network attacks. It delivers increased network availability, faster remediation, and comprehensive threat protection. HTTP/FTP/SMTP/POP3/IMAP
Antivirus	Protection from viruses, trojans, spyware, and identity theft by inspecting traffic going through the router. HTTP/FTP/SMTP/POP3/IMAP
Cisco Umbrella	First line of defense for threats on the Internet. Prevention for user and malware-initiated connections. Protection against Malware, C2 callbacks, and phishing. Proxy inspection for risky domains.
IPSec	IKEv1 and IKEv2 50 simultaneous connections (any combination of remote access and site-to-site), up to 650 Mbps throughput
IPsec remote access	Yes (remote access from any standards-based IPsec client and Cisco IPsec VPN EasyVPN)
Layer 2 Tunneling Protocol (L2TP) over IPsec	Yes
Generic Routing Encapsulation (GRE) over IPsec	Yes
Cisco SSL VPN (Cisco AnyConnect)	Maximum 50 SSL VPN tunnels and up to 33Mbps throughput. Also requires Cisco AnyConnect end user licenses to use on the end device. Ideal for mobile devices.
Point-to-Point Tunneling Protocol (PPTP)	25 connections, up to 100 Mbps throughput
Teleworker mode (Cisco IPsec	Router acts as a client to connect to central VPN gateway in teleworker mode

VPN)	
VPN pass-through	IPSec, PPTP, L2TP
Management protocols	Web browser (HTTP/HTTPS) Simple Network Management Protocol (SNMP) v1, v2c, and v3 Representational State Transfer (REST) API NETCONF
Management Platform	FindIT Network Manager
Firmware upgrade options	Via local PC, USB stick, or from Cisco.com via web browser. Unattended automatic firmware upgrade.
LAN	
VLAN	Up to 32 VLANs
Port Security	Yes, 802.1X
Link aggregation	Yes (static, no LACP)
IPv6	Dual stack, 6rd, 6in4, Dual stack lite
WAN	DHCP client, static IP, PPPoE, PPPTP, L2TP, transparent bridge
Routing	Static routing, IGMP proxy, Inter-VLAN routing, Routing Information Protocol RIPv1,v2, RIPng
Network Address Translation (NAT)	Port Forwarding Port Address Translation (PAT) One-to-one NAT VPN NAT traversal

	Session Initiation Protocol (SIP) Application-Level Gateway (ALG), FTP ALG
NAT max sessions	>40000
NAT max connections per second	3000
DynDNS	ChangeIP.com, DynDNS.com, No-IP.com, dnsomatic
IPv6 transition	Dual Stack
Hardware DMZ	Yes (when enabled, one LAN port will be DMZ port)
DMZ host	Yes
System	
CPU	ARM-based architecture, dual core, hardware flow engine 1.2 Ghz (RV340W) 900 Mhz (RV345, RV345P, RV340)
RAM	1 GB DDR3
Flash	256 MB

Table 4. Wireless (RV340W only)

Description	Specification
Standards	IEEE 802.11ac, 802.11n, 802.11g, 802.11b, 802.11a, 802.1X (security authentication), 802.1Q (VLAN), 802.11i (WPA2 security), 802.11e (wireless QoS)
Antennas	4 external fixed paddle antennas (RV340W)
802.1X supplicant	Yes

SSID-to-VLAN mapping	Yes
Auto channel selection	Yes
WPA/WPA2	Yes, including enterprise authentication
Access control	Yes, MAC filtering
Rouge access point detection	No
QoS	Wi-Fi Multimedia (WMM) with unscheduled automatic power save
Performance	
Wireless throughput	PHY data rate: 2.4 GHz: 450 Mbps 964-QAM), 600 Mbps (256-QAM) 5 GHz: 1.7 Gbps (256-QAM), 2.1 Gbps (1024-QAM) Total: Up to 2.7 Gbps (real-world throughput will vary)
Recommended user support	Up to 50 users at 2.4 GHz and 124 users at 5 GHz simultaneously
Captive Portal for guest access	Yes
Wireless parameters	
Frequency	Dual concurrent radios (2.4 and 5 GHz)
WLAN	802.11n/ac 4x4 MU-MIMO with 4 partial streams at 5GHz 3x3 MIMO with 3 spatial streams at 2.4 GHz 20 MHz, 40 MHz and 80 MHZ channels for 802.11ac

	20 MHz and 40 MHz channels for 802.11n PHY data rate: 2.4 GHz: 450 Mbps (64-QAM), 600 Mbps (256-QAM) 5 GHz: 1.7 Gbps (256-QAM), 2.1 Gbps (1024-QAM) Total: up to 2.7 Gbps 802.11 Dynamic Frequency Selection (DFS) MU-MIMO up to 3 clients simultaneously
Data rates supported	**802.11 a/b/g:** ● 54, 48, 36, 24, 18, 12, 9, 6, 11, 5.5, 2, and 1 Mbps ● 802.11n: 6.5 to 450 Mbps - 20-MHz bandwidth: MCS 0-15 for supported data rates - 40-MHz bandwidth: MCS 0-15 for supported data rates **802.11ac:** ● 6.5 Mbps to 1.7 Gbps - 20-MHz bandwidth: MCS 0-9 for supported data rates - 40-MHz bandwidth: MCS 0-9 for supported data rates - 80-MHz bandwidth: MCS 0-9 for supported data rates
Frequency band and operating channels	A (A regulatory domain): 2412 to ~2462 MHz: 11 channels 5.15 to 5.25 GHz: 4 channels 5.25 to 5.35 GHz: 4 channels 5.47 to 5.725 GHz: 8 channels 5.725 to 5.825 GHz: 5 channels E (E regulatory domain): 2412 to ~2472 MHz: 13 channels 5.15 to 5.25 GHz: 4 channels 5.25 to 5.35 GHz: 4 channels 5.47 to 5.725 GHz: 8 channels C (C regulatory domain): 2412 to ~2462 MHz: 13 channels

	5.15 to 5.25 GHz: 4 channels
	5.25 to 5.35 GHz: 4 channels
Transmitter output power	**2.4 GHz** ● 802.11b: 17.5 +/- 2 dBm ● 802.11g: 17.5 +/- 2 dBm @ 6 Mbps ● 802.11g: 15.5 +/- 2 dBm @ 54 Mbps ● 802.11n (HT20): 17.5 +/- 2 dBm @ MCS0 ● 802.11n (HT20): 15.5 +/- 2 dBm @ MCS7 ● 802.11n (HT40): 15.5 +/- 2 dBm @ MCS7 **5 GHz** ● 802.11a: 18.5 +/- 2 dBm @ 6 Mbps ● 802.11a: 14 +/- 2 dBm @ 54 Mbps ● 802.11n (HT20): 14 +/- 2 dBm @ MCS7 ● 802.11n (HT40): 14 +/- 2 dBm @ MCS7 ● 802.11ac (VHT80): 12.0 +/- 2 dBm @ VHT9SS
Wireless isolation	Wireless isolation between clients
Antenna gain in dBi	2.4 GHz: 3 dBi each antenna 5 GHz: 5 dBi each antenna
Receiver sensitivity	**2.4 GHz** ● 802.11b: -82 dBm @ 11 Mbps ● 802.11g: -71 dBm @ 54 Mbps ● 802.11n (HT20): -69 dBm @ MCS7 ● 802.11n (HT40): -67 dBm @ MCS7 **5 GHz** ● 802.11ac (VHT20): -59 dBm @ MCS8 ● 802.11ac (VHT40): -54 dBm @ MCS9 ● 802.11ac (VHT80): -51 dBm @ MCS9
Wireless Distribution System (WDS)	No

Table 5. Product Dimensions

Description	Specification
RV340, RV345, RV345P, RV340W excluding antennas	280 x 44 x 170 mm (11 x 1.75 x 6.75 in)
RV340W with antennas	280 x 44 x 315 mm (11 x 1.75 x 12.40 in)
Package dimensions	RV340W: 375 x 505 x 80 mm (14.76 x 19.88 x 3.15 in) RV340: 448 x 293 x 80 mm (17.64 x 11.54 x 3.15 in) RV345: 448 x 293 x 80 mm (17.64 x 11.54 x 3.15 in) RV345P: 550 x 300 x 95 mm (21.65 x 11.81 x 3.74)
Product weight device only	RV340W: 1150 g (2.53 lb) RV340: 960 g (2.1 lb) RV345: 1140 g (2.5 lb) RV345P: 1180 g (2.6 lb)
Packaging weight	RV340W: 2400 g (5.29 lb) RV340: 2210 g (4.9 lb) RV345: 2390 g (5.3 lb) RV345P: 3200 g (7.1 lb)
MTBF	50000 hours
Rack mountable RV340, RV345, RV345P	Yes
Rack mountable RV340W	No
Included accessories	RV340, RV345, RV345P Power supply, power cord, Ethernet cable, rack mount kit RV340W Power supply, power cord, Ethernet cable
Fan	No
Included accessories	Power supply, power cord, ethernet cable
Power Supply	RV340W: AC 100-240V/1A DC 12V/3A

	RV340, RV345: AC 100-240V/1A DC 12V/2.5A DC
	RV345P: AC 100-240V/2A DC 54V/2.78A
Certification	RV340, RV340W: FCC Class B, CE Class B, UL, cUL, CB, CCC, BSMI, KC, Anatel
	RV345, RV345P: FCC Class A CE Class B, UL, cUL, CB, CCC, BSMI, KC, Anatel
Operating temperature	0° to 40°C (32° to 104°F)
Storage temperature	0° to 70°C (32° to 158°F)
Operating humidity	10% to 85% noncondensing
Storage humidity	5% to 90% noncondensing

ORDERING INFORMATION

Table 6. Ordering information

Product number	Product description
RV340 Routers	
RV340-K9-NA	Cisco RV340 VPN Router for US, Canada, Mexico, Peru
RV340-K9-AU	Cisco RV340 VPN Router for Australia, New Zealand
RV340-K9-G5	Cisco RV340 VPN Router for EU, Vietnam, Ukraine, Saudi Arabia, UAE, Egypt, Qatar, Kuwait, Israel, Hong Kong, Indonesia, Malaysia, Philippines, Singapore, Thailand, South Africa
RV340-K9-CN	Cisco RV340 VPN Router for China
RV340-K9-IN	Cisco RV340 VPN Router for India
RV340-K9-AR	Cisco RV340 VPN Router for Argentina
RV340-K9-BR	Cisco RV340 VPN Router for Brazil
RV340-K8-RU	Cisco RV340 VPN Router for Russia

RV340W Routers	
RV340W-A-K9-NA	Cisco RV340W VPN Router for US, Canada, Mexico, Peru
RV340W-E-K9-G5	Cisco RV340W VPN Router for EU, Vietnam, Saudi Arabia, UAE, Egypt, Qatar, Kuwait, Israel, Hong Kong, Indonesia, Malaysia, Philippines, Singapore, Thailand, South Africa
RV340W-E-K9-AU	Cisco RV340W VPN Router for Australia, New Zealand
RV340W-C-K9-IN	Cisco RV340W VPN Router for India
RV345 Routers	
RV345-K9-NA	Cisco RV345 VPN Router for US, Canada, Mexico, Peru
RV345-K9-AU	Cisco RV345 VPN Router for Australia, New Zealand
RV345-K9-G5	Cisco RV345 VPN Router for EU, Vietnam, Ukraine, Saudi Arabia, UAE, Egypt, Qatar, Kuwait, Israel, Hong Kong, Indonesia, Malaysia, Philippines, Singapore, Thailand, South Africa
RV345-K9-CN	Cisco RV345 VPN Router for China
RV345-K9-IN	Cisco RV345 VPN Router for India
RV345-K9-AR	Cisco RV345 VPN Router for Argentina
RV345-K9-BR	Cisco RV345 VPN Router for Brazil
RV345-K8-RU	Cisco RV345 VPN Router for Russia
RV345P Routers	
RV345P-K9-NA	Cisco RV345P VPN Router for US, Canada, Mexico, Peru
RV345P-K9-AU	Cisco RV345P VPN Router for Australia, New Zealand

RV345P-K9-G5	Cisco RV345P VPN Router for EU, Vietnam, Ukraine, Saudi Arabia, UAE, Egypt, Qatar, Kuwait, Israel, Hong Kong, Indonesia, Malaysia, Philippines, Singapore, Thailand, South Africa
RV345P-K9-CN	Cisco RV345P VPN Router for China
RV345P-K9-IN	Cisco RV345P VPN Router for India
RV345P-K9-AR	Cisco RV345P VPN Router for Argentina
RV345P-K9-BR	Cisco RV345P VPN Router for Brazil
RV345P-K8-RU	Cisco RV345P VPN Router for Russia

WHERE TO BUY

Want to buy this series of products? please contact:

● Tel: +1-626-239-8066 (USA) +852-3050-1066 / +852-3174-6166

● Fax: +852-3050-1066 (Hong Kong)

● Email: cisco@router-switch.com (Sales Inquiries)

Or visit: Cisco Router RV340 Series Router

About us

Router-switch.com (HongKong Yejian Technologies Co., Ltd), founded in 2002, is one of the biggest Global Network Hardware Supplier. We are a leading provider of network products with 18,000+ customers in over 200 countries. We provide original new and used network equipments (Cisco, Huawei, HPE, Dell, Juniper, EMC, etc.), including Routers, Switches, Servers, Storage, Telepresence and Videoconferencing, IP Phones, Firewalls, Wireless APs & Controllers, EHWIC/HWIC/VWIC Cards, SFPs, Memory & Flash, Hard Disk, Cables, and all kinds of network solutions related products.

SOURCES

https://www.cisco.com/c/en/us/products/collateral/routers/small-business-rv-series-routers/datasheet-c78-742350.html