

# Cisco RV340W Dual WAN Gigabit Wireless-AC VPN Router Data Sheet

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Today, secure networking is imperative for every small business. The Cisco® RV340W security router provides business users with high-speed Internet access, Gigabit 802.11ac Wave 2 WLAN, Internet security, firewall protection, and application policies, for the ultimate business efficiency (Figure 1).

Figure 1. Cisco RV340W



## Product overview

Small businesses are constantly exposed to Internet threats. The Cisco RV340W Dual WAN Gigabit Wireless-AC VPN Router connects small businesses to the Internet and protects employees from unwanted content and malicious websites, without compromising the online experience. The router helps boost employee productivity and overall network performance by limiting Internet surfing to appropriate site categories and eliminating unwanted network traffic. Users are automatically protected from malicious or compromised websites, regardless of the site categorization. End devices and applications can be identified and treated according to user-defined policies for improved productivity and optimal network usage.

With an intuitive user interface, the RV340W enables you to be up and running in minutes. The router provides reliable and highly secure connectivity that is so transparent you will not even know it is there.

## Features and benefits

- 2 WAN ports (RJ-45) allow load balancing and resiliency
- 4 LAN ports (RJ-45) provide high-performance connectivity
- Integrated 802.11ac WLAN access point with external antennas (Wave 2 MU-MIMO)
- 2 USB ports support a 3G/4G modem or flash drive
- Flexible VPN functionality for secure interconnectivity
- Support for the Cisco AnyConnect® Secure Mobility Client, ideal for remote access by mobile devices

- Dynamic web filtering, enabling business efficiency and security while connecting to the Internet
- Client and application identification that allows Internet access policies for end devices and Internet applications, to help ensure performance and security

The Cisco RV340W is the optimal choice for any small business network that requires performance, security, and reliability.

## Specifications

The specifications for the Cisco RV340W are listed in Table 1.

Table 1. Specifications

Description	Specification
<b>Ports</b>	
<b>Ethernet WAN</b>	2 RJ-45 Gigabit Ethernet
<b>Ethernet LAN</b>	4 RJ-45 Gigabit Ethernet
<b>Console/serial</b>	1 RJ-45 port for future use
<b>USB</b>	2 for external 3G/4G dongle or flash drive
<b>Security</b>	
<b>Firewall</b>	Stateful packet inspection, up to 900 Mbps throughput for TCP, User Datagram Protocol (UDP) traffic
<b>Quality of Service (QoS)</b>	Assign detailed QoS (Class of Service (CoS)/Differentiated Services Code Point (DSCP)/policies) settings per application or end device
<b>Web security and app visibility (licensed feature)</b>	Dynamic web filtering: Cloud based, more than 80 categories, more than 450 million domains classified Application identification: Assign policies to Internet applications Endpoint identification: Assign policies based on end device category and operating system
<b>VPN</b>	
<b>IPsec</b>	50 simultaneous connections (any combination of remote access and site-to-site), up to 650 Mbps throughput
<b>IPsec remote access</b>	Yes (remote access from any standards-based IPsec client and Cisco IPsec VPN (EasyVPN))
<b>Layer 2 Tunneling Protocol (L2TP) over IPsec</b>	Yes
<b>Generic Routing Encapsulation (GRE) over IPsec</b>	Yes
<b>Cisco SSL VPN (Cisco AnyConnect)</b>	2 tunnels included. Max 50 tunnels with optional router licenses. Up to 33 Mbps throughput Also requires Cisco AnyConnect end user licenses to use on the end device Ideal for mobile devices
<b>Point-to-Point Tunneling Protocol (PPTP)</b>	25 connections, up to 100 Mbps throughput
<b>Teleworker mode (Cisco IPsec VPN)</b>	Router acts as a client to connect to central VPN gateway in teleworker mode
<b>VPN pass-through</b>	IPsec, PPTP, L2TP
<b>Management</b>	
<b>Management protocols</b>	Web browser (HTTP/HTTPS) Simple Network Management Protocol (SNMP) v1, v2c, and v3 Representational State Transfer (REST) API (future use)
<b>Firmware upgrade options</b>	Via local PC, USB stick, or from Cisco.com via web browser Unattended automatic firmware upgrades

Description	Specification
<b>LAN</b>	
<b>VLAN</b>	Yes (32)
<b>Port security</b>	Yes, 802.1X
<b>QoS</b>	Yes
<b>Link aggregation</b>	Yes (static, no Link Aggregation Control Protocol [LACP]), up to 4 links
<b>IPV6</b>	Dual stack, 6rd, 6in4
<b>WAN</b>	Dynamic Host Configuration Protocol (DHCP) client, static IP, Point-to-Point Protocol over Ethernet (PPPoE), PPTP, L2TP, transparent bridge
<b>Routing</b>	Routing Information Protocol (RIP) v1 and v2, and RIP for IPv6 (RIPng) Inter-VLAN routing Static routing, Internet Group Management Protocol (IGMP) proxy
<b>Network Address Translation (NAT)</b>	Port forwarding Port Address Translation (PAT) One-to-one NAT VPN NAT traversal Session Initiation Protocol (SIP) Application-Level Gateway (ALG), FTP ALG
<b>NAT max sessions</b>	>40,000
<b>NAT max connections per second</b>	3000
<b>Changelp.com, DynDNS.com, No-IP.com</b>	Changelp.com, DynDNS.com, No-IP.com
<b>Dual Stack, Dual Stack Lite, 6in4</b>	Dual Stack, Dual Stack Lite, 6in4
<b>Hardware DMZ (network edge)</b>	Yes (when enabled, one LAN port will be DMZ port)
<b>DMZ host</b>	Yes
<b>System</b>	
<b>CPU</b>	1.2-GHz, ARM based architecture
<b>RAM</b>	DDR3 1 GB
<b>Flash</b>	256 MB

## Wireless

<b>Standards</b>	<b>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)</b>
<b>Antennas</b>	4 external fixed paddle antennas
<b>802.1X supplicant</b>	Yes
<b>SSID-to-VLAN mapping</b>	Yes
<b>Auto channel selection</b>	Yes
<b>WPA/WPA2</b>	Yes, including enterprise authentication
<b>Access control</b>	Yes, MAC filtering
<b>Rogue access point detection</b>	No
<b>QoS</b>	Wi-Fi Multimedia (WMM) with unscheduled automatic power save
<b>Performance</b>	
<b>Wireless throughput</b>	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 (real-world throughput will vary)
<b>Recommended user support</b>	Up to 50 users at 2.4 GHz and 124 users at 5 GHz simultaneously
<b>Captive Portal for guest access</b>	Yes

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)
<b>Wireless</b>	
<b>Frequency</b>  <b>WLAN</b>	Dual concurrent radios (2.4 and 5 GHz)  802.11n/ac 4x4 multiple-Input Multiple-Output (MIMO) with 4 spatial streams at 5 GHz 3x3 MIMO with 3 spatial streams at 2.4 GHz 20-, 40-, and 80-MHz channels for 802.11ac 20- 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) Multiuser MIMO (MU-MIMO) (up to 3 clients simultaneously)
<b>Data rates supported</b>	802.11a/b/g: <ul style="list-style-type: none"> <li>● 54, 48, 36, 24, 18, 12, 9, 6, 11, 5.5, 2, and 1 Mbps</li> <li>● 802.11n: 6.5 to 450 Mbps               <ul style="list-style-type: none"> <li>◦ 20-MHz bandwidth: MCS 0-15 for supported data rates</li> <li>◦ 40-MHz bandwidth: MCS 0-15 for supported data rates</li> </ul> </li> <li>● 802.11ac: 6.5 Mbps to 1.7 Gbps               <ul style="list-style-type: none"> <li>◦ 20-MHz bandwidth: MCS 0-9 for supported data rates</li> <li>◦ 40-MHz bandwidth: MCS 0-9 for supported data rates</li> <li>◦ 80-MHz bandwidth: MCS 0-9 for supported data rates</li> </ul> </li> </ul>
<b>Frequency band and operating channels</b>	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
<b>Transmitted output power</b>	2.4 GHz <ul style="list-style-type: none"> <li>● 802.11b: 17.5 +/- 2 dBm</li> <li>● 802.11g: 17.5 +/- 2 dBm @ 6 Mbps</li> <li>● 802.11g: 15.5 +/- 2 dBm @ 54 Mbps</li> <li>● 802.11n (HT20): 17.5 +/- 2 dBm @ MCS0</li> <li>● 802.11n (HT20): 15.5 +/- 2 dBm @ MCS7</li> <li>● 802.11n (HT40): 15.5 +/- 2 dBm @ MCS7</li> </ul> 5 GHz <ul style="list-style-type: none"> <li>● 802.11a: 18.5 +/- 2 dBm @ 6 Mbps</li> <li>● 802.11a: 14 +/- 2 dBm</li> </ul>

<b>Standards</b>	<b>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)</b>
	@ 54 Mbps <ul style="list-style-type: none"> <li>• 802.11n (HT20): 14 +/- 2 dBm</li> </ul> @ MCS7 <ul style="list-style-type: none"> <li>• 802.11n (HT40): 14 +/- 2 dBm</li> </ul> @ MCS7 802.11ac (VHT80): 12.0 +/- 2 dBm @ VHT9SS1
<b>Wireless isolation</b>	Wireless isolation between clients
<b>Antenna gain in dBi</b>	2.4 GHz: 3 dBi each antenna 5 GHz: 5 dBi each antenna
<b>Receiver sensitivity</b>	2.4 GHz <ul style="list-style-type: none"> <li>• 802.11b: -82 dBm @ 11 Mbps</li> <li>• 802.11g: -71 dBm @ 54 Mbps</li> <li>• 802.11n (HT20): -69 dBm</li> </ul> @ MCS7 <ul style="list-style-type: none"> <li>• 802.11n (HT40): -67 dBm</li> </ul> @ MCS7  5 GHz <ul style="list-style-type: none"> <li>• 802.11ac (VHT20): -59 dBm @ MCS8</li> <li>• 802.11ac (VHT40): -54 dBm @ MCS9</li> <li>• 802.11ac (VHT80): -51 dBm @ MCS9</li> </ul>
<b>Wireless Distribution System (WDS)</b>	No
<b>Fast roaming</b>	No
<b>Multiple SSIDs</b>	8, 4 on each radio
<b>Operating modes</b>	Access point mode

## Dimensions

<b>RV340W excluding antennas</b>	280 x 44 x 170 mm (11 x 1.75 x 6.75 in)
<b>RV340W with antennas</b>	280 x 44 x 315 mm (11 x 1.75 x 12.40 in)
<b>Product Weight</b>	
<b>RV340W device only</b>	1150 g (2.53 lb)
<b>RV340W package/box</b>	2400 g (5.29 lb)
<b>Mean Time Between Failures (MTBF)</b>	50,000 hours (demonstrated 25,000 hours)
<b>Rack mountable</b>	No
<b>Fan</b>	No
<b>Included accessories</b>	Power supply, power cord, Ethernet cable
<b>Power supply</b>	AC: 100–240V      DC: 12V/2.5A
<b>Certification</b>	RV340W: FCC Class B, CE Class B, UL, cUL, CB, CCC, BSMI, KC, Anatel
<b>Operating temperature</b>	0° to 40°C (32° to 104°F)
<b>Storage temperature</b>	0° to 70°C (32° to 158°F)
<b>Operating humidity</b>	10% to 85% noncondensing
<b>Storage humidity</b>	5% to 90% noncondensing

## For more information

For more information on the Cisco RV340W Dual WAN Gigabit Wireless-AC VPN Router, visit <http://www.cisco.com/go/rv340w>.

## Ordering information

Table 2 provides ordering information for the RV340W.

Table 2. Ordering information

Type	Model/Product ID	Description
<b>Security license</b>	LS-RV34X-SEC-1YR=	RV Security – 1 year: Enables dynamic web filter/Internet security and Application Visibility and Client identification (no license required for a 90-day trial period)
<b>AnyConnect Server license</b>	LS-RV-ACS-25-1YR=	RV AnyConnect Server – 1 year: Upgrade to 25 tunnels Increases the number of supported tunnels from 2 to 25 Depending on the user device, an AnyConnect Secure Mobility User Client license is required. Recommended: L-AC-PLS-LIC=. To download the AnyConnect client from Cisco.com, you also need a support contract
<b>Regional SKU</b>	RV340W-A-K9-NA	USA, Canada, Mexico, and the rest of LATAM
<b>Regional SKU</b>	RV340W-E-K9-G5	EU, Vietnam, Ukraine, Saudi Arabia, UAE, Egypt, Qatar, Kuwait, Israel, Hong Kong, Indonesia, Malaysia, Philippines, Singapore, Thailand, South Africa
<b>Regional SKU</b>	RV340W-C-K9-IN	India
<b>Regional SKU</b>	RV340W-E-K9-AU	Australia, New Zealand

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