

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
Ports	
Ethernet WAN	2 RJ-45 Gigabit Ethernet
Ethernet LAN	4 RJ-45 Gigabit Ethernet
Console/serial	1 RJ-45 port for future use
USB	2 for external 3G/4G dongle or flash drive
Security	
Firewall	Stateful packet inspection, up to 900 Mbps throughput for TCP, User Datagram Protocol (UDP) traffic
Quality of Service (QoS)	Assign detailed QoS (Class of Service (CoS)/Differentiated Services Code Point (DSCP)/policies) settings per application or end device
Web security and app visibility (licensed feature)	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
VPN	
IPsec	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)	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
Point-to-Point Tunneling Protocol (PPTP)	25 connections, up to 100 Mbps throughput
Teleworker mode (Cisco IPsec VPN)	Router acts as a client to connect to central VPN gateway in teleworker mode
VPN pass-through	IPsec, PPTP, L2TP
Management	
Management protocols	Web browser (HTTP/HTTPS) Simple Network Management Protocol (SNMP) v1, v2c, and v3 Representational State Transfer (REST) API (future use)
Firmware upgrade options	Via local PC, USB stick, or from Cisco.com via web browser Unattended automatic firmware upgrades

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

Wireless

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
802.1X supplicant	Yes
SSID-to-VLAN mapping	Yes
Auto channel selection	Yes
WPA/WPA2	Yes, including enterprise authentication
Access control	Yes, MAC filtering
Rogue 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 (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)
Recommended user support	Up to 50 users at 2.4 GHz and 124 users at 5 GHz simultaneously
Captive Portal for guest access	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)
Wireless	
Frequency WLAN	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)
Data rates supported	802.11a/b/g: <ul style="list-style-type: none"> ● 54, 48, 36, 24, 18, 12, 9, 6, 11, 5.5, 2, and 1 Mbps ● 802.11n: 6.5 to 450 Mbps <ul style="list-style-type: none"> ◦ 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 <ul style="list-style-type: none"> ◦ 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
Transmitted output power	2.4 GHz <ul style="list-style-type: none"> ● 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 <ul style="list-style-type: none"> ● 802.11a: 18.5 +/- 2 dBm @ 6 Mbps ● 802.11a: 14 +/- 2 dBm

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

Dimensions

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)
Product Weight	
RV340W device only	1150 g (2.53 lb)
RV340W package/box	2400 g (5.29 lb)
Mean Time Between Failures (MTBF)	50,000 hours (demonstrated 25,000 hours)
Rack mountable	No
Fan	No
Included accessories	Power supply, power cord, Ethernet cable
Power supply	AC: 100–240V DC: 12V/2.5A
Certification	RV340W: FCC Class B, 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

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
Security license	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)
AnyConnect Server license	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
Regional SKU	RV340W-A-K9-NA	USA, Canada, Mexico, and the rest of LATAM
Regional SKU	RV340W-E-K9-G5	EU, Vietnam, Ukraine, Saudi Arabia, UAE, Egypt, Qatar, Kuwait, Israel, Hong Kong, Indonesia, Malaysia, Philippines, Singapore, Thailand, South Africa
Regional SKU	RV340W-C-K9-IN	India
Regional SKU	RV340W-E-K9-AU	Australia, New Zealand

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