

Cisco CVR100W Wireless-N 300M Router with Highly Secure Business-class Connectivity for Small Offices/Home Offices (SOHO)



The Cisco® CVR100W Wireless-N 300M Router provides simple, affordable, secure business-class connectivity to the Internet for small office/home office (SOHO) and remote professionals.

The CVR100W features with standard-based 802.11n wireless connectivity, four 10/100 Fast Ethernet LAN interfaces, an intuitive, browser-based device manager, Wi-Fi power and LED indications control, Wireless Distribution System (WDS), IPsec VPN access, highly secure wireless guest access control, proven SPI firewall, Quality of Service, and Cisco Smart Connect to take basic connectivity for small businesses to a new level.

Features

- High-speed, standard-based 802.11n wireless connectivity with two built-in omnidirectional antennas to help employees stay productive while away from their desks
- Integrated 4 10/100 Fast Ethernet LAN interfaces providing high-speed access for network devices such as computers, NAS, IP phones, and cameras
- Proven stateful packet inspection (SPI) firewall, advanced wireless security, plus strong URL filtering and access control by schedule to help keep business assets safe
- One-click to enable or disable the wireless module, adjust the Wi-Fi power, and/or turn the indications on or off for all lights on the front panel
- Support for multiple VLANs to segregate the network into LANs that are isolated from one another
- Support for separate virtual networks (SSIDs) to control access to sensitive information and to set up highly secure wireless guest access
- Support for IPsec Security (IPsec) VPN to allow remote workers to securely access your cooperate resources over the IPsec VPN tunnels by using the Cisco QuickVPN software
- Easy-to-configure, independent wireless access point (SSID4) for setting up highly secure wireless guest access
- Support for Wireless Distribution System (WDS) to allow the wireless coverage to be expanded without wires
- Support for IPv6 addressing to help small business comply with new network standards and prepare for building the next-generation network
- Simplified configuration through an intuitive English and Simplified Chinese graphic user interface

Cisco CVR100W Front Panel

Figure 1 shows the front panel of the CVR100W. There are three function buttons and eight indicators on the front panel.

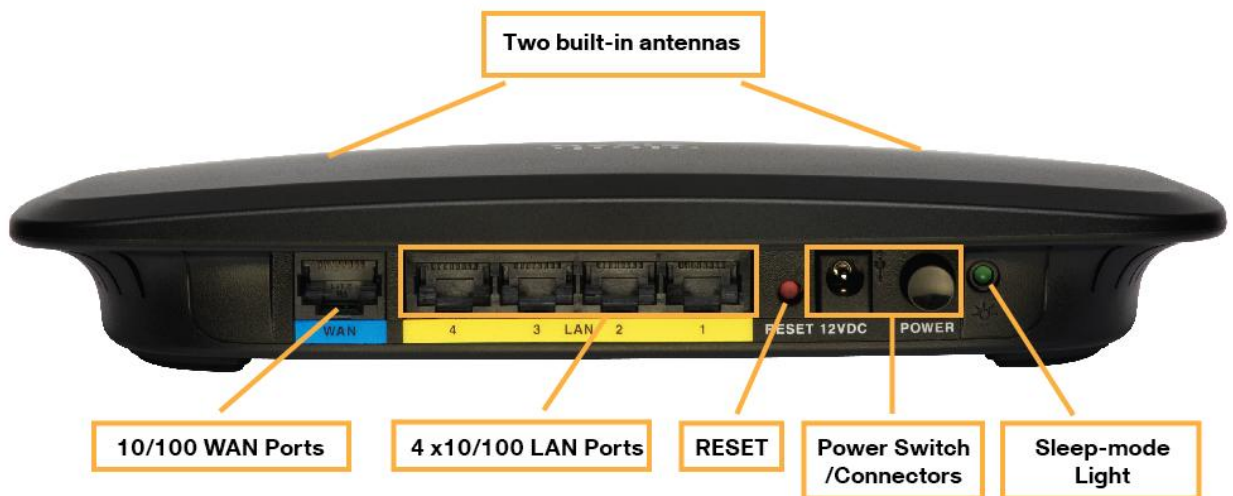
Figure 1 Cisco CVR100W Front Panel



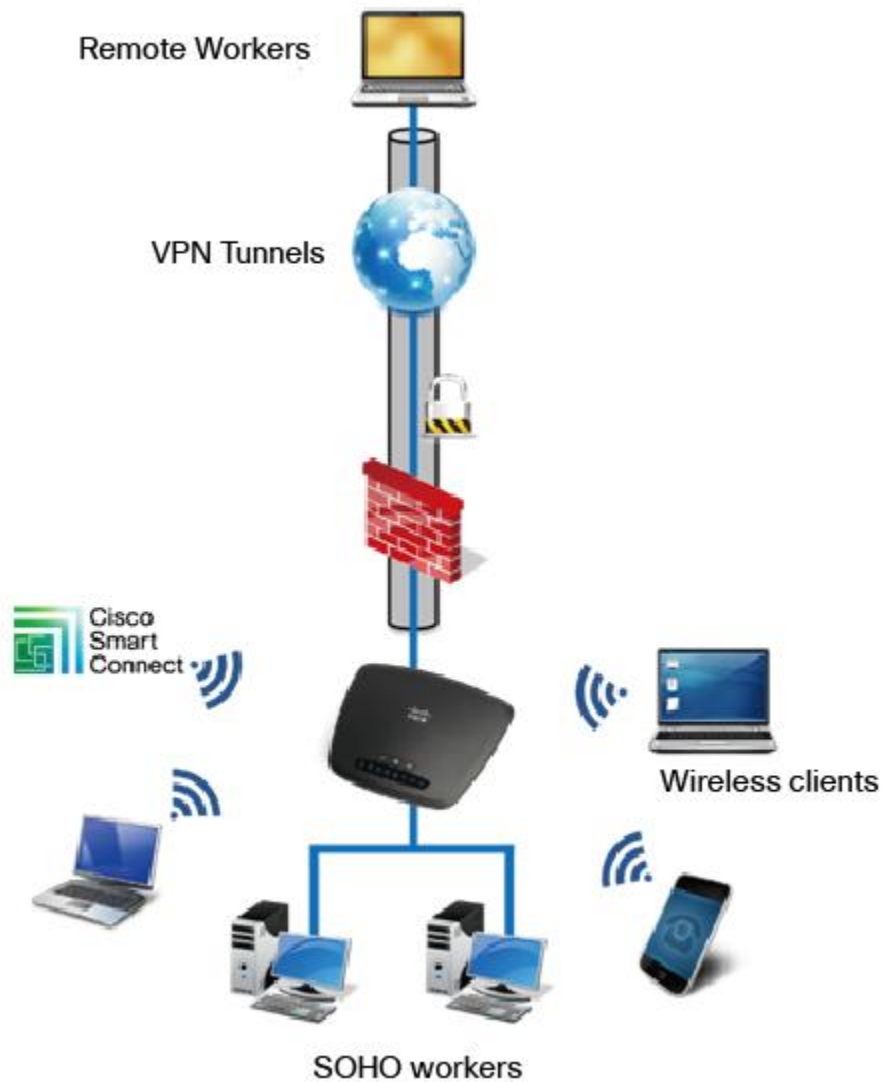
Cisco CVR100W Back Panel

Figure 2 shows the back panel of the CVR100W.

Figure 2 Cisco CVR100W Back Panel



Typical Applications



1. Support for standard-based 802.11n wireless access point with the 2*2 MIMO technology providing up to 300M data rate.
2. Independent wireless guest access point (SSID4) for setting up highly secure wireless guest access and separating guest traffic.
3. Business-class SPI firewall with Denial of Service (DoS) prevention, URL filtering, and access control by schedule.
4. Support up to three client-to-gateway VPN tunnels to facilitate branch office connectivity through encrypted virtual links.
5. Support for the Cisco Smart Connect technology, which provides a secure and convenient way for smart devices to connect with a Wi-Fi access point.

Hardware Specifications

Table 1 lists the hardware specifications for the Cisco CVR100W.

Table 1 **Hardware Specifications**

Features	Description
WAN	1 x 10/100 Mbps RJ-45 connector for WAN port
LAN	4 x 10/100 Mbps RJ-45 connectors for LAN ports
Wireless	Built-in 802.11n wireless access point (two antennas)
Lights	LAN1-4, WPS, Wireless, WAN, Power, and Sleep-Mode Control
Buttons/Switches	Power, RESET, WPS, Wireless, and Sleep-Mode Control
Sleep-Mode Control Button	<p>The Sleep-Mode Control button is used to turn all lights on the front panel of the CVR100W on or off. Turning this button on or off will not affect the normal operation of the CVR100W.</p> <ul style="list-style-type: none">• Turn this button on, all lights on the front panel are off and the Sleep-Mode light on the back panel is solid green.• Turn this button off, all lights on the front panel are on and the Sleep-Mode light on the back panel is off.
Product Dimensions (WxHxD)	203.7 mm x 169.3 mm x 35.4 mm
Weight	0.38 kg
Power Supply	12 V/0.5 A
Certification	SRRC
Operating Environments	<ul style="list-style-type: none">• Operating temperature: 0° to 40°C (32° to 104°F)• Storage temperature: -30° to 60°C (-22° to 140°F)• Operating humidity: 10% to 85% noncondensing• Storage humidity: 5% to 95% noncondensing

Software Specifications

Table 2 lists the software specifications for the CVR100W.

Table 2 **Software Specifications**

Features	Description
Routing	<ul style="list-style-type: none">• Static Routing• RIPv1 and RIPv2• Inter-VLAN Routing
Layer 2	<ul style="list-style-type: none">• 802.1Q-based VLAN• 4 active VLANs (VLAN ID Range: 4 to 4094)
Layer 3	<ul style="list-style-type: none">• DHCP Server

	<ul style="list-style-type: none"> • PPPoE • PPTP Pass-through • L2TP Pass-through • DHCP Relay Agent • IGMP Proxy and IGMP Snooping • Dynamic Domain Name System (DynDNS): oray.com and 3322.org • Network Access Translation (NAT) and Port Address Translation (PAT) • Port Management • Port Mirroring
IPv6	<ul style="list-style-type: none"> • IPv4/IPv6 Dual Stacks • IPv6 to IPv4 Tunneling • Multicast Listener Discovery (MLD) for IPv6 (RFC2710) • Stateless Address Auto-configuration (SLAAC) • DHCPv6 Server for LAN IPv6 clients • DHCPv6 Client WAN connection • Internet Control Message Protocol version 6 (ICMPv6) • IPv6 Static Routing • RIP Next Generation (RIPng): IPv6 Dynamic Routing
Security	<ul style="list-style-type: none"> • Stateful Packet Inspection (SPI) Firewall • Port Forwarding and Port Triggering • ACL and Content Filtering • DoS Prevention • Wireless MAC Address Filtering • Static URL or Keyword Filtering • Access Control by Schedule • Web-based Device Manager (HTTP and HTTPS) • Self-signed SSL Certificate
VPN	<ul style="list-style-type: none"> • Up to 3 IPsec VPN tunnels by using the Cisco QuickVPN software • PPTP, L2TP, and IPsec VPN Passthrough
Quality of Service	<ul style="list-style-type: none"> • 802.1p-based priority on LAN ports and application-based priority on WAN ports • 4 queues • DSCP • CoS • Bandwidth control
Management	<ul style="list-style-type: none"> • Local logs, system logs, and remote Logs • Upgrade the firmware from the web-based Device Manager • Import and export system configuration (.txt) • Remote management using the HTTP or HTTPS protocol • Bonjour and UPnP • Network Diagnostic: Ping, Traceroute, and DNS Lookup

Performance	<ul style="list-style-type: none"> • NAT throughput: 90 Mbps • Maximum new connections: 750 • Maximum concurrent connections: 15000 • VPN throughput: 5 Mbps
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Wireless Specifications

Table 3 lists the wireless specifications for the CVR100W.

Table 3 Wireless Specifications

Features	Description
Wireless Radio	<p>IEEE 802.11n wireless access point with the compliance of 802.11b/g</p> <p>Wireless radio modes:</p> <ul style="list-style-type: none"> • 802.11b: Direct-Sequence Spread Spectrum (DSSS) • 802.11g/n: Orthogonal Frequency-Division Multiplexing (OFDM) • Built-in two omnidirectional antennas with 1.8 dBi gain <p>Wireless Channels:</p> <ul style="list-style-type: none"> • 13 selectable wireless channels • Auto <p>Transmit Power:</p> <ul style="list-style-type: none"> • 802.11b: 17 dBm +/- 1.5 dBm • 802.11g: 15 dBm +/- 1.5 dBm • 802.11n: 12.5 dBm +/- 1.5 dBm <p>Receiver Sensitivity:</p> <ul style="list-style-type: none"> • -87 dBm at 11 Mbps • -71 dBm at 54 Mbps • -68 dBm at msc 15, HT20 / -66dBm at mcs15, HT40
Wireless Adjustment	<ul style="list-style-type: none"> • Press the Wireless button to enable or disable the wireless module • Adjustable Wi-Fi Power: OFF, 50%, 100%
Wireless Distribution System (WDS)	Up to 3 wireless access points to repeat the wireless signals
Wi-Fi Multimedia (WMM)	WMM (802.11e) and WMM Power Save (U-APSD)
Maximum Number of Connected Wireless Client Stations	32 active wireless client stations simultaneously
Maximum Number of Active SSIDs	4 active SSIDs simultaneously
Isolation	Station Isolation
Security	<ul style="list-style-type: none"> • WPS (Wi-Fi Protected Setup) • WEP

	<ul style="list-style-type: none"> • WPA-Personal/Enterprise • WPA2-Personal/Enterprise
Cisco Smart Connect	<p>The Cisco Smart Connect (CSC) technology provides a safety and convenient way for smart devices to connect with a Wi-Fi access point.</p> <p>The administrator needs to log in to the web-based Device Manager of the CVR100W to manually enable and configure this feature. The customers can use the Cisco Smart Connect client application on their smart devices to interact with the CSC smart tag and then quickly connect to the CSC wireless network of the CVR100W.</p>

Cisco Smart Connect

The CVR100W supports the Cisco Smart Connect (CSC) technology, which provides a safety and convenient way for smart devices to connect with a Wi-Fi access point by simply touching the RFID or scanning the QR code of the CSC smart tag.

By default, the Cisco Smart Connect feature is disabled on the CVR100W. The administrator needs to log in to the web-based Device Manager of the CVR100W to manually enable and configure this feature.

Your customers can now use the Cisco Smart Connect client application on their smart devices to interact with your CSC smart tag and then quickly connect to the CSC wireless network of the CVR100W.

System Requirements

Table 4 lists the system requirements for configuring the CVR100W.

Table 4 **System Requirements**

Features	Descriptions
Hardware Requirements	A computer with functional network adapter (Ethernet connection) to run the web-based Device Manager.
Software Requirements	<p>The Setup Wizard and Device Manager are supported on the following web browsers:</p> <ul style="list-style-type: none"> • Microsoft Internet Explorer 6.0 (or later) • Mozilla Firefox 3.0 (or later) • Apple Safari 3.0 (or later) • Google Chrome 5.0 (or later)

Ordering Information

Table 5 lists ordering information for the Cisco CVR100W.

Table 5 **Ordering Information**

Part Number	Description
CVR100W-B20-K9-CN	Cisco CVR100W Wireless-N 300M Router (Black)
CVR100W-W20-K9-CN	Cisco CVR100W Wireless-N 300M Router (White)

Note: The above part numbers are only available for purchasing the CVR100W by Cisco partners and agents.

Product Models

Table 6 provides product information for the Cisco CVR100W.

Table 6 Product Information

Product Model	Description
CVR100W-B-K9-CN	Cisco CVR100W Wireless-N 300M Router (Black)
CVR100W-W-K9-CN	Cisco CVR100W Wireless-N 300M Router (White)

Warranty Information

This product comes with a 1-year limited hardware warranty with return-to-factory replacement. For additional information, see http://www.cisco.com/web/CN/solutions/industry/segment_sol/small/index.html#~service.

For More Information

To find out more information about the Cisco CVR100W, visit <http://www.cisco.com/go/cn/cvr100w>.

P/N: OL-26192-01



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