



# Quick Start Guide



## Cisco RV160W Router

### Package Contents

- Cisco RV160W Router
- Power Adapter
- This Quick Start Guide
- Pointer Card/RoHS
- Technical Support Contact Card
- Ethernet Cable
- Console Cable
- EU Directives 2014/53/EU Compliance Information (for EU SKU only)

# Welcome

Thank you for choosing the Cisco RV160W router.

The RV160W router provides reliable Internet access connectivity and includes the following features:

- Easy to use UI with multiple set-up wizards.
- Four port wireless-AC VPN router.
- Supports IPv6 firewall.
- Dualband WLAN (2.4 and 5GHz)
- Business-grade small business network in a box.

This guide describes how to install your Cisco RV160W and launch the web-based Device Manager.

## 1

### Installing the Cisco RV160W

To prevent the device from overheating or being damaged:

- **Ambient Temperature** — Do not operate the device in an area that exceeds an ambient temperature of 104°F (40°C).
- **Air Flow** — Be sure that there is adequate airflow around the device. If wall mounting the device, make sure that the heat dissipation holes are to the side.
- **Circuit Overloading** — Adding the device to the power outlet must not overload that circuit.
- **Mechanical Loading** — Be sure that the device is level and stable to avoid any hazardous conditions, and that it is secure to prevent it from sliding or shifting out of position. Do not place anything on top of the device, as excessive weight may damage it.



**WARNING**

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This unit contains a replaceable battery.

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**CAUTION**

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Risk of explosion if the battery is replaced by an incorrect type. Dispose of used batteries according to the instructions.

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## Desktop Mounting

For desktop mounting, place the device on a flat surface so that it sits on its four rubber feet.

## Wall Mounting

The router has two wall-mount slots on the bottom panel. To mount the router on a wall, you will need to use the wall-mount kit screws (included).

### Guidelines for Mounting the Router on a Wall

When choosing a location for mounting the router on a wall, consider cable limitations and wall structure.

- Mount the router with the front panel facing upward. Make sure to mount the router low enough so that you can see the LEDs.
- Make sure that the power supply rests on a horizontal surface such as the floor or a table. If the power supply is not supported, the strain on the power adapter cable could cause it to disconnect from the router.
- Do not install the router or its power supply next to a heat source of any kind, including heating vents.

You can mount the router on a hollow wall or a wall stud. To mount the router, follow these steps:

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**STEP 1** Position the router on the wall to determine where to attach the two mounting screws. Drill two pilot holes at approximately 109 mm apart.

**STEP 2** Insert a screw into each hole, leaving a gap between the surface and the base of the screw head of 1 to 1.2 mm.

**STEP 3** Place the router wall-mount slots over the screws and slide the router down until the screws fit snugly into the wall-mount slots.



**WARNING**

Insecure mounting might damage the router or cause injury. Cisco is not responsible for damages incurred due to insecure wall-mounting.

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**WARNING**

For safety reasons, please ensure that the heat dissipation holes are facing sideways.

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## Front Panel

<b>PWR</b>	<p>Power off or in rescue mode.</p> <p>Solid green when the power is on and in normal operation.</p> <p>Flashing green when the device is booting up.</p>
<b>VPN</b>	<p>Off when no VPN tunnel is defined, or all defined VPN tunnels have been disabled.</p> <p>Solid green when at least one VPN tunnel is up.</p> <p>Flashing green when transmitting or receiving data over VPN tunnel.</p> <p>Solid amber when no enabled VPN tunnel is up.</p>
<b>DIAG</b>	<p>Off when the system is on track to bootup.</p> <p>Slow blinking red (1Hz) when the firmware upgrade is in progress.</p> <p>Fast blinking red (3Hz) when the firmware upgrade is failing.</p> <p>Solid red when the system failed to boot-up with both active and inactive images or in rescue mode.</p>
<b>LINK/ACT of WAN and LAN1-4</b>	<p>Off when there is no Ethernet connection.</p> <p>Solid green when the GE Ethernet link is on.</p> <p>Flashing green when the GE is sending or receiving data.</p>
<b>GIGABIT of WAN and LAN1-4</b>	<p>Solid green when at 1000M speed.</p> <p>Off when at non-1000M speed.</p>

<b>WLAN 2.4GHz</b>	<p>Off when the 2.4GHz wireless module is disabled.</p> <p>Flashing green when the wireless radio is transmitting or receiving data.</p> <p>Solid green when the 2.4GHz wireless module is enabled.</p>
<b>WLAN 5GHz</b>	<p>Off when the 5GHz wireless module is disabled.</p> <p>Flashing green when the wireless radio is transmitting or receiving data.</p> <p>Solid green when the 5GHz wireless module is enabled.</p>
<b>USB</b>	<p>Solid green when the USB dongle is successfully connected to an Internet Service Provider (ISP) and an IP address has been assigned.</p> <p>Flashing green when the port is sending or receiving data.</p> <p>Amber when the USB dongle is recognized but failed to connect to an ISP.</p>

## Back Panel

**WIFI** — Push the button to enable or disable the WIFI.

**RESET** — The RESET button has two functions:

- To reboot the unit and retain the current configuration, press and hold RESET for a least 3 but no more than 10 seconds, by using a paper clip or a pen tip.
- To reboot the unit and restore the factory default configuration, press and hold the RESET button for more than 10 seconds. Changes you have made to the router are lost.

**Console Port** — The router console port is designed for a serial cable connection to a terminal or a computer that is running a terminal emulation program.

**LAN** — (1-4) RJ-45 device connections to link local area network devices, such as PCs, print servers, or switches to the router.

**WAN** — Connecting the router to a wide area network device such as a cable or DSL modem.

**SFP Port** — A small factor-form pluggable (SFP) is a hot-swappable input/output device that plugs into the SFP port, linking the port with the network.

**POWER** — Toggles power to the device on or off.

**12VDC (2A)** — Power port that connects the device to the provided 12VDC, 2 amp power adapter.

## Side Panel

**USB** — Type A USB port that supports flash drives and 3G/4G/LTE USB dongles. Caution: Use only the power supply provided with the device; using another power supply may cause the USB dongle to fail.

**Kensington Lock Slot** - Lock slot on the right side to secure the device physically, using the Kensington lock-down equipment.

# 3

## Connecting the Equipment

Connect a configuration terminal (PC) to the device by using a LAN port. The terminal must be in the same wired subnetwork as the device to perform the initial configuration. As part of the initial configuration, the device can be configured to allow remote management.

To connect a computer to the device:

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- STEP 1** Power off all equipment, including the cable or DSL modem, the computer, and this device.
  - STEP 2** Use an Ethernet cable to connect your cable or DSL modem to the WAN port on this device.
  - STEP 3** Connect another Ethernet cable from one of the LAN (Ethernet) ports to the Ethernet port on the computer.
  - STEP 4** Power on the WAN device and wait until the connection is active.
  - STEP 5** Connect the power adapter to the 12VDC port of this device.



### CAUTION

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Use only the power adapter that is supplied with the device. Using a different power adapter could damage the device or cause the USB dongles to fail.

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The power switch is on by default. The power light on the front panel is solid green when the power adapter is connected properly and the device is finished booting.

**STEP 6** Plug the other end of the adapter into an electrical outlet. Use the plug (supplied) specific to your country.

**STEP 7** Continue with the instructions in the Using the Setup Wizard to configure the device.

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## 4

## Getting Started with the Configuration

To configure the router, you can either use Ethernet or wireless. Please follow these steps to access the Wizard, and then, the web-based configuration utility from your computer by Ethernet:

**STEP 1** Ethernet: Power on the PC that you connected to the LAN port. Your PC becomes a DHCP client of the device and receives an IP address in the 192.168.1.xxx range.

Wireless: Search the wireless SSID "CiscoSB-Setup", and connect to this SSID with the passphrase "cisco123".

**STEP 2** Locate the IP address of the router. The router IP address is 192.168.1.1 by default. As well,

- a. The router can be accessed and managed by Cisco's network tools and services, including the Cisco FindIT Network Discovery Utility, that enables you to automatically discover all supported Cisco devices in the same local network segment as your computer. You can get a snapshot view of each device or launch the product configuration utility to view and configure the settings. For more information, see [www.cisco.com/go/findit](http://www.cisco.com/go/findit).
- b. The router is Bonjour-enabled and automatically broadcast its services and listen for services being advertised by other Bonjour-enabled devices. If you have a Bonjour-enabled browser, such as Microsoft Internet Explorer with a Bonjour plug-in, or the Apple Mac Safari browser, you can find the router on your local network without knowing its IP address.

You can download the complete Bonjour for Microsoft Internet Explorer browser from Apple's website by visiting: <http://www.apple.com/bonjour/>

- STEP 3** Launch a web browser, such as Microsoft Internet Explorer or Mozilla Firefox.
- STEP 4** In the address bar, enter the default IP address of the device, `https://192.168.1.1`. A site security certificate message is displayed. The Cisco RV160W uses a self-signed security certificate. This message appears because the device is not known to your computer.
- STEP 5** Enter the default user name: **cisco** and password: **cisco** in the User Name and Password fields.
- STEP 6** Click **Login**.
- STEP 7** Follow the Setup Wizard instructions to finish the router installation. We strongly recommend that you use the Setup Wizard for the first installation. The Setup Wizard turns on the Wi-Fi radio, which allows you to connect wirelessly. For more advanced configurations, see the Administration Guide. A link to the Administration Guide is found in [Where to Go from Here](#).

Congratulations, you can now start using your router.

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## Changing the Administrator Username and Password

To change the Administrator username and password on the device:

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- STEP 1** From the Getting Started page, select **Change Administrator Password** or select **System Configuration > User Accounts** from the navigation bar.
- STEP 2** Check a username from the **Local User Membership** list and click **Edit**.
- STEP 3** Enter the **Username**.
- STEP 4** Enter the old **Password**.
- STEP 5** Enter the new **Password**.
- STEP 6** Confirm the new **Password**.
- STEP 7** Select the group (**admin, guest**) from the drop-down list in the Password Strength Meter.
- STEP 8** Click **Save**.
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## Troubleshoot Your Connection

If you cannot access your device by using the **Setup Wizard**, the device may not be reachable from your computer. You can test network connections by using **ping** on a computer running Windows:

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**STEP 1** Open a command window by using **Start > Run** and enter **cmd**.

**STEP 2** At the **Command** window prompt, enter **ping** and the device IP address. For example, **ping 192.168.1.1** (the default static IP address of the device).

If you can reach the device, you should get a reply similar to the following:

```
Pinging 192.168.1.1 with 32 bytes of data:  
Reply from 192.168.1.1: bytes=32 time<1ms  
TTL=128.
```

If you cannot reach the device, you should get a reply similar to the following:

```
Pinging 192.168.1.1 with 32 bytes of data:  
Request timed out.
```

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## Possible Causes and Resolutions

### *Bad Ethernet connection:*

Check the LEDs for the proper indications. Check the connectors of the Ethernet cable to ensure that they are firmly plugged into the device and your computer.

### *Wrong or conflicting IP address:*

Verify that you are using the correct IP address of the device.

Verify that no other device is using the same IP address as this device.

### *No IP route:*

If the device and your computer are in different IP subnetworks, remote access must be enabled and you need at least one router on the network to route the packets between the two subnetworks.

### *Unusually long access time:*

Adding new connections may take 30–60 seconds for the affected interfaces and LAN to become operational.

### *Bad Image*

After a new firmware installation, if the Power light is solid red, contact system support; see [Where to Go from Here](#).

## 5 Where to Go from Here

Support	
Cisco Support Community	<a href="http://www.cisco.com/go/smallbizsupport">www.cisco.com/go/smallbizsupport</a>
Cisco Support and Resources	<a href="http://www.cisco.com/go/smallbizhelp">www.cisco.com/go/smallbizhelp</a>
Phone Support Contacts	<a href="http://www.cisco.com/en/US/support/tsd_cisco_small_business_support_center_contacts.html">www.cisco.com/en/US/support/tsd_cisco_small_business_support_center_contacts.html</a>
Cisco Firmware Downloads	<a href="http://www.cisco.com/go/smallbizfirmware">www.cisco.com/go/smallbizfirmware</a> Select a link to download firmware for Cisco products. No login is required.
Cisco Open Source Request	<a href="http://www.cisco.com/go/smallbiz_opensource_request">www.cisco.com/go/smallbiz_opensource_request</a>
Cisco Partner Central (Partner Login Required)	<a href="http://www.cisco.com/c/en/us/partners.html">http://www.cisco.com/c/en/us/partners.html</a>
Product Documentation	
Cisco RV160W	<a href="http://www.cisco.com/go/RV160W">www.cisco.com/go/RV160W</a>



## Americas Headquarters

Cisco Systems, Inc.  
[www.cisco.com](http://www.cisco.com)



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## **FCC Statement**

### **Federal Communication Commission Interference Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**FCC Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

For product available in the USA/Canada market, only channel 1~11 can be operated. Selection of other channels is not possible.

This device is restricted to indoor use.

### **IMPORTANT NOTE:**

#### **FCC Radiation Exposure Statement:**

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance **20cm** between the radiator & your body.

## ISED Statement

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

*Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.*

This radio transmitter ([3970A-RV160W](#)) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Antenna type: Dipole

Brand name: Master Wave

1) Model name: 98619PIPF040- 2.4G: 3.08 dBi / 5G: 5.06 dBi

2) Model name: 98619PIPF041- 2.4G: 3.53 dBi / 5G: 5.57 dBi

*Le présent émetteur radio ([3970A-RV160W](#)) a été approuvé par Industrie Canada pour fonctionner avec les types d'antenne énumérés ci-dessous et ayant un gain admissible maximal et l'impédance requise pour chaque type d'antenne. Les types d'antenne non inclus dans cette liste, ou dont le gain est supérieur au gain maximal indiqué, sont strictement interdits pour l'exploitation de l'émetteur.*

Antenna type: Dipole

Brand name: Master Wave

1) Model name: 98619PIPF040- 2.4G: 3.08 dBi / 5G: 5.06 dBi

2) Model name: 98619PIPF041- 2.4G: 3.53 dBi / 5G: 5.57 dBi

The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;

Les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux

for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the bands 5250-5350 MHz and 5470-5725 MHz shall be such that the equipment still complies with the e.i.r.p. limit;

for devices with detachable antenna(s), the maximum antenna gain permitted for devices in the band 5725-5850 MHz shall be such that the equipment still complies with the e.i.r.p. limits as appropriate

**IMPORTANT NOTE:**

**IC Radiation Exposure Statement:**

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance **20cm** between the radiator & your body.

*Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de **20cm** de distance entre la source de rayonnement et votre corps*

The transmitter module may not be co-located with any other transmitter or antenna.

Le module émetteur peut ne pas être coïmplanté avec un autre émetteur ou antenne.

The Country Code Selection feature is disabled for products marketed in the US/Canada.