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Introduction

This document describes how to install your Cisco 800 Series or Small Business (SB) 100 Series router. This document applies to Cisco 831, 836, 837, 851, 857, 871, 876, 877, SB 101, SB106, and SB 107 model routers, and includes routers with wireless capability.

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Requirements

To install the 800 or SB 100 series router, you need to have these items:

- Completed worksheets as instructed in the [Site Survey](#), which includes the Internet Worksheet for the router
- The router and power supply assembly included with the router
- A PC with an Ethernet card
- [Straight-through Ethernet cables](#) (two cables for the 831, 851, 871 and SB 101)
- ADSL cable for the 836, 837, SB 106, or SB 107 router
- Orange ISDN cable for the 836 or SB 106 router (ordered separately)
- Antenna(s) for the wireless 851, 857, 871, 876, or 877 router
- Before you install the router, check the TCP/IP settings on your computer. Your PC should be configured to receive an IP address automatically with Dynamic Host Configuration Protocol (DHCP). For more information on how to configure your TCP/IP settings, refer to [Configure an IP Address on](#)

[Your PC.](#)[Back to Top](#)

Install the Router

To install the router, follow these steps:

Connect Antennas (Wireless Models Only)

Cisco wireless routers use 2.4-GHz antennas to connect to provide a wireless signal to the network. Cisco 850 series wireless routers use one antenna, and Cisco 870 series wireless routers use two antennas.

If you have a wireless router, follow these steps to connect antennas:

1. Attach the antenna to the connector on the back of the router and tighten the connector hand-tight.
2. After you connect the antenna to the back of the router, orient the antenna so that it is straight up.

Connect the Router Interfaces

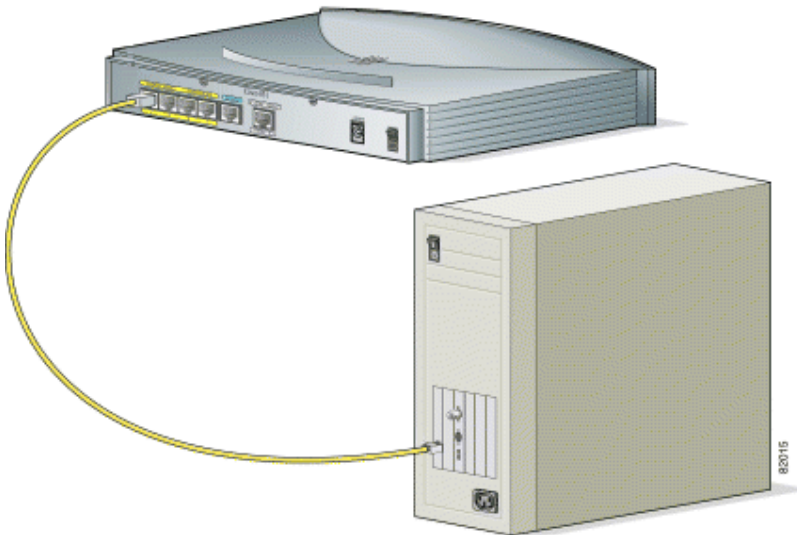
Select the necessary cables to connect the router to a PC, broadband modem, or ADSL. For more information about cables, refer to [Cable Descriptions](#).

1. Connect the router to the PC with the straight-through Ethernet cable as shown in the illustration. Connect one end of the Ethernet cable to port 4 on the built-in Ethernet switch.



Caution: Always connect the Ethernet cable to the yellow Ethernet port on the router. If you connect the cable to a WAN port, you may damage the router.

2. Connect the other end of the cable to the RJ-45 port on the Ethernet card installed in the PC.



3. Connect additional cables according to your router model:

- For the 831, 851, 871, and SB 101, connect the second Ethernet cable between the Internet port of the router and an available port on an installed DSL or cable modem. Turn on the broadband modem if it is not already on.
- For the 836, 876, and SB 106, connect the lavender ADSL cable between the ADSL port of the router and the telephone wall jack or ADSL splitter, and connect the orange ISDN cable between the ISDN port of the router and the Network Termination (NT1) box or ADSL splitter.

Note: The ADSL port is labeled ADSLoISDN on the 836, 876, and SB 106 routers.

- For the 837, 857, 877, and SB 107, connect the lavender ADSL cable between the ADSL

port of the router and a telephone wall jack. If the ADSL line is also used for voice communication, you can connect the router to an ADSL splitter to prevent disruption of data communication.

Note: The ADSL port is labeled ADSLoPOTS on the 857 and 877 routers.

Connect Power to the Router

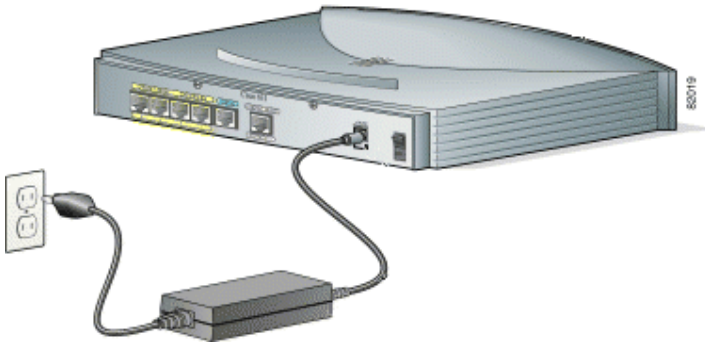
Note: Before you connect the router to its power source, read the [Regulatory Compliance and Safety Information for the 800 Series Routers](#) or [Regulatory Compliance and Safety Information for Cisco SB 100 Series Routers](#) document that came with your router.

Follow these steps to connect the router to the AC adapter:

1. Check the power switch of the router and make sure it is turned off. Connect one end of the power supply cable to the input jack of the router.

You can use the power latch included in your accessory kit to prevent the power adapter plug from disconnecting from the router. Attach the power latch to the cable near the power plug and push it toward the plug until it sits inside the latch. Connect the plug to the input jack and hook the latches to the holes on either side of the jack until the plug is secure.

2. Connect the other end of the power supply cable to the desktop power adapter.
3. Plug the power cord of the desktop power adapter into an electrical outlet.



4. Turn the power switch on. The green OK LED on the front panel of the router lights up when you connect the router to a power source. The router is now ready for use.

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Verify Your Installation

To verify your installation, check for normal LED activity, as described in this table. All lights are green when activity is normal. If you do not see normal LED activity, contact the [SMB Technical Assistance Center \(SMB TAC\)](#) for assistance.

LED	Label	Meaning
OK	None	Lit when power is supplied to the router.
1, CD	Internet, ADSL	Lit when the router detects status and connects to the digital subscriber line access multiplexer (DSLAM) successfully.
RXD	Internet, ADSL	Blinks when a port on the Internet port receives network traffic.

TXD	Internet, ADSL	Blinks when a port on the Internet port sends network traffic.
ISDN 1, Line	ISDN	Lit when ISDN D channel connects successfully.
ISDN CH1, B1	ISDN	Lit when ISDN B1 channel connects successfully. Blinks when the B1 channel receives or sends data.
ISDN CH2, B2	ISDN	Lit when ISDN B2 channel connects successfully. Blinks when the B2 channel receives or sends data.
1, 2, 3 or 4	Ethernet, Ethernet LAN, Computers	Lit when the LAN port is physically connected to a server, PC, or workstation.
RXD	Ethernet, Ethernet LAN, Computers	Blinks when a port on the built-in Ethernet switch receives network traffic.
TXD	Ethernet, Ethernet LAN, Computers	Blinks when a port on the built-in Ethernet switch sends network traffic.
PPP	None	Lit when one or more PPPoE or PPPoA client sessions are running.
VPN	None	Lit when one or more VPN sessions are active.
OK	WLAN	Lit solid green when at least one wireless client is associated. Blinks if no client is associated. Solid green if at least one client is associated.
DATA	WLAN	Blinks if there is traffic on the wireless LAN. Off if there is no traffic.

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Next Step

You have completed hardware installation and are ready to configure your router with Security Device Manager (SDM). SDM is a configuration tool that allows you to configure LAN and WAN interfaces, routing, Network Address Translation (NAT), firewalls, VPNs, and other features on your router.

For further instructions, refer to [Configure Your Router with Security Device Manager](#).

Note: If you have an ASA Security Appliance in your network, refer to [Configure Your Router with Security Device Manager for ASA](#).

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Related Information

- [Site Survey](#)
- [Cable Descriptions](#)
- [Configure Your Router with Security Device Manager](#)