



Cisco 800 Series Router Cabling and Setup Quick Start Guide

This document describes the basic process of cabling and configuring the Internet access device, the Cisco 800 series router. For advanced cabling information, refer to the *Cisco 800 Series Router Hardware Installation Guide*. For advanced configuration information, refer to the *Cisco 800 Series Router Software Configuration Guide*. These documents are available on the Cisco Documentation CD-ROM and on the World Wide Web.

You can access the most current Cisco documentation on the World Wide Web at the following sites:

- <http://www.cisco.com>
- <http://www-china.cisco.com>
- <http://www-europe.cisco.com>

Parts List

The shipment of your Cisco 800 series router includes the following items:

- One Cisco 800 series router
- One yellow Ethernet cable
- One orange ISDN S/T cable (Cisco 801 and Cisco 803 only)
- One red ISDN U cable (Cisco 802 and Cisco 804 only)
- One RJ-45-to-RJ-11 adapter cable (for use with the red ISDN U cable)
- One blue console cable
- One DB-9-to-RJ-45 adapter (for use with the blue console cable)
- One DB-25-to-RJ-45 adapter (for use with the blue console cable)
- One black power supply
- One black power supply cord
- 800 and SOHO Series Product Documentation CD
- Cisco 800 Fast Step CD-ROM

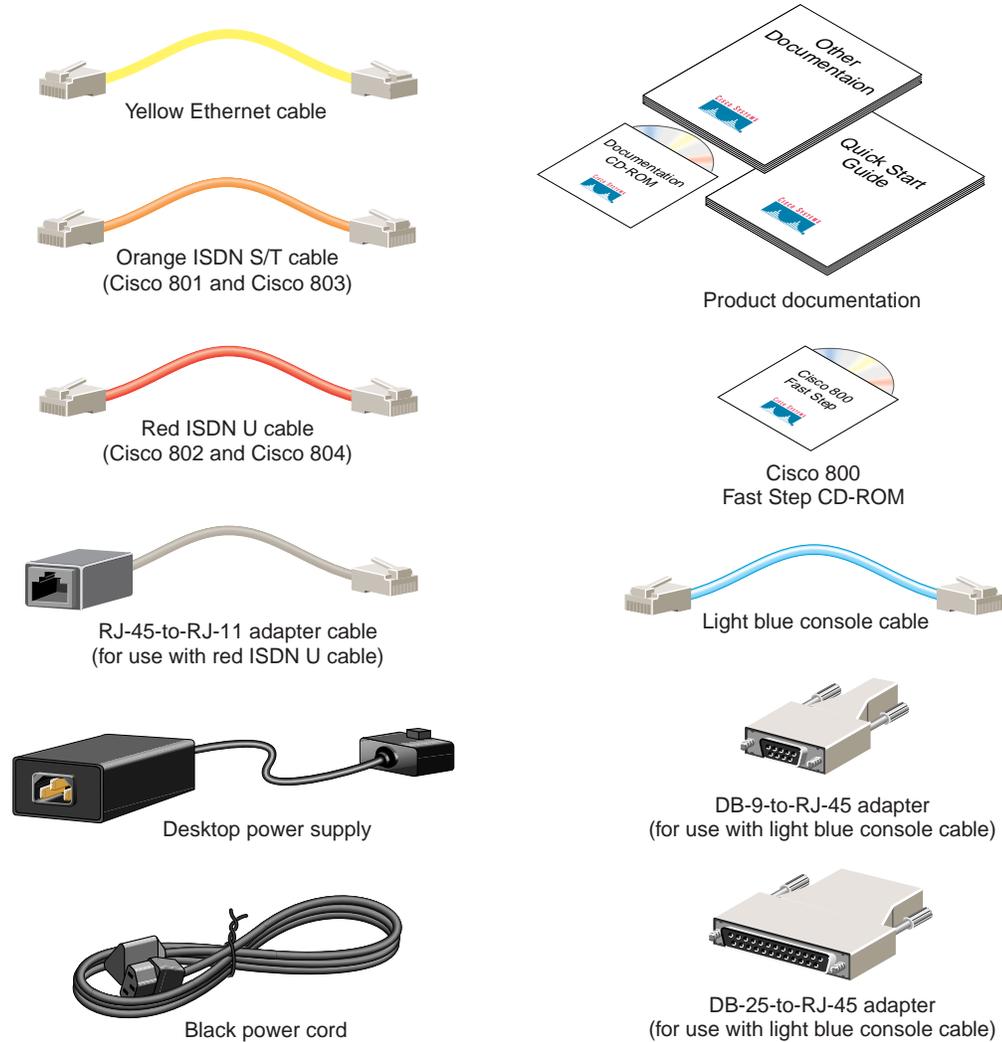


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Figure 1 shows the items included with the router. If any of the items is missing or damaged, contact your customer service representative.

Figure 1 Items Included with the Router



Verify the PC Setup

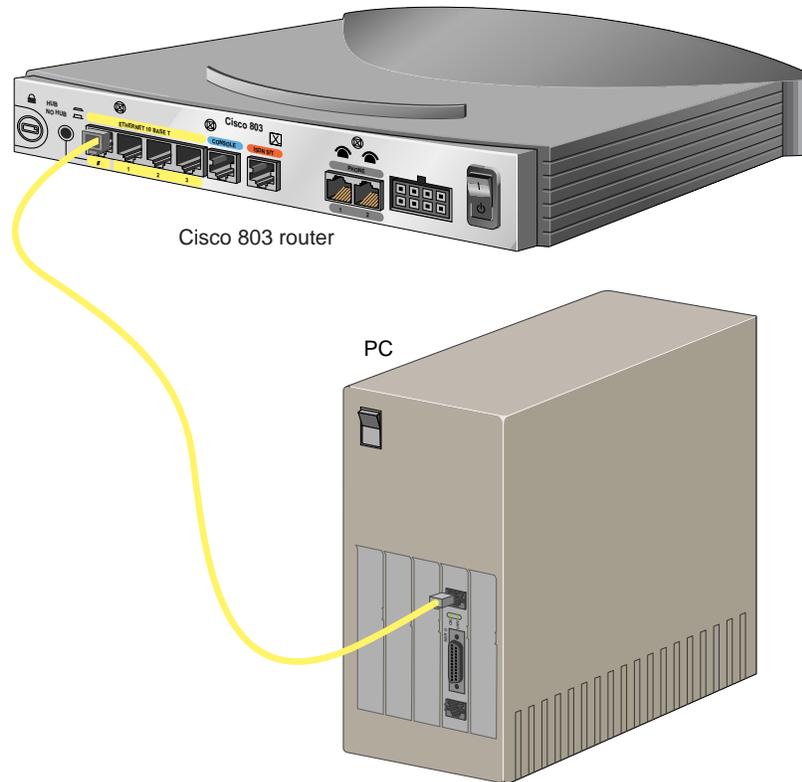
Before you begin, verify that each computer that will be connected to the router has a network interface card (NIC) installed and that Transmission Control Protocol/Internet Protocol (TCP/IP) has been loaded and configured. For more information on how to configure TCP/IP, refer to the *PC Configuration Instructions to Establish Cisco Router-to-PC Communications*, which is available on the Cisco Documentation CD-ROM, and refer to information available the Microsoft web site.

Connect the Cisco 800 Series Router to a PC

Follow these steps to connect the Cisco 800 series router to a PC:

- Step 1** Connect the yellow Ethernet cable from the yellow Ethernet port (Cisco 801 and 802 routers) or from the yellow Ethernet port with the number 0 (Cisco 803 and 804 routers) on the back panel of the router to the Ethernet port on the NIC on the computer.

Figure 2 Connecting a Cisco 800 Series Router to a PC



- Step 2** Verify that the HUB/NO HUB switch on the left side of the back panel has been set to the NO HUB position (out). If the button is in, press it to set it to the out position.



Note The HUB/NO HUB button corresponds to the Ethernet port on Cisco 801 and 802 routers and to Ethernet port 0 on Cisco 803 and 804 routers.

- Step 3** For Cisco 803 and 804 routers, connect additional computers to the Cisco 800 series router by connecting Ethernet cables from the Ethernet ports labeled with the numbers 1, 2, and 3 to the Ethernet ports on the computers.



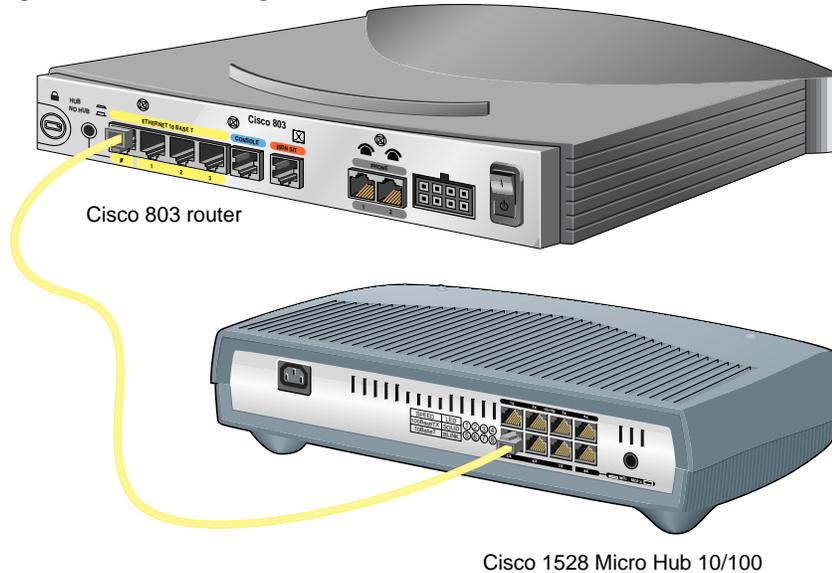
Caution Always connect the yellow cable or Ethernet cable that you supply to the yellow ports on the router. Do not connect the cable to an ISDN S/T or U port or to a Network Termination 1 (NT1) device. Accidentally connecting the cable to the wrong port can damage your router.

Connect the Cisco 800 Series Router to a Hub

Follow these steps to connect the Cisco 800 series router to a hub:

- Step 1** Connect the yellow Ethernet cable from the yellow Ethernet port (Cisco 801 and 802 routers) or from the yellow Ethernet port with the number 0 (Cisco 803 and 804 routers) on the back panel of the router to the Ethernet port on the hub.

Figure 3 Connecting a Cisco 800 Series Router to a Hub



- Step 2** Verify that the HUB/NO HUB switch on the left side of the back panel has been set to the HUB position (in). If the button is out, press it to set it to the in position.



Note The HUB/NO HUB button corresponds to the Ethernet port on Cisco 801 and 802 routers and to Ethernet port 0 on Cisco 803 and 804 routers.



Caution Always connect the yellow cable or Ethernet cable that you supply to the yellow ports on the router. Do not connect the cable to an ISDN S/T or U port or to a Network Termination 1 (NT1) device. Accidentally connecting the cable to the wrong port can damage your router.

Connect an ISDN Line

Refer to the section corresponding to your router model and follow the steps to connect the Cisco 800 series router to an ISDN line.

- [Option A—Connecting Cisco 801 and Cisco 803 Routers](#)
- [Option B—Connecting Cisco 802 and Cisco 804 Routers](#)



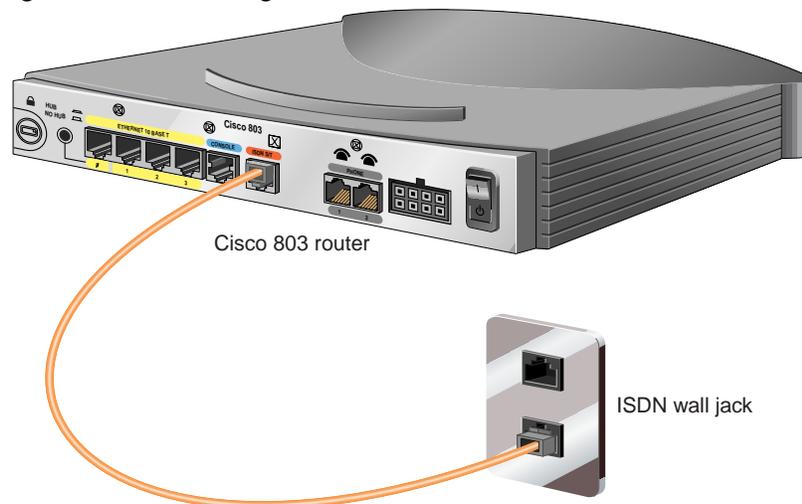
Caution

Always connect the orange cable to the orange ISDN S/T port and the red cable to the red ISDN U port on the router. Do not connect either cable to the yellow Ethernet port. Accidentally connecting these cables to the wrong port can damage your router.

Option A—Connecting Cisco 801 and Cisco 803 Routers

This section describes how to connect Cisco 801 and Cisco 803 routers outside of North America. For information on connecting these routers in North America, see the *Cisco 800 Series Routers Hardware Installation Guide*.

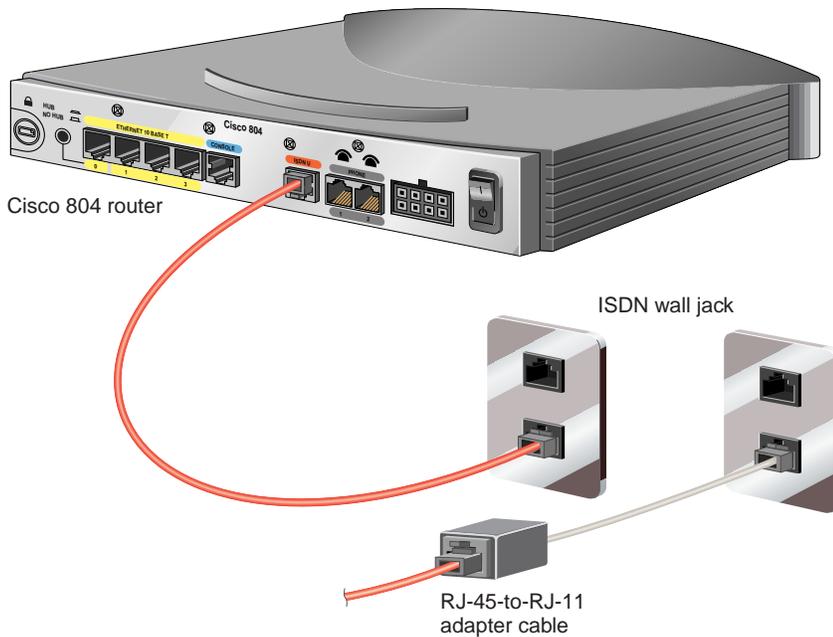
Figure 4 Connecting an 801 or 803 Router to an ISDN Line



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- Step 1** Connect the orange cable to the orange ISDN S/T port.
- Step 2** Connect the other end of the cable to the ISDN wall jack.
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Option B—Connecting Cisco 802 and Cisco 804 Routers

Figure 5 Connecting an 802 or 804 Router to an ISDN Line



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- Step 1 Connect the red cable to the red ISDN U port.
 - Step 2 Connect the other end of the cable to the ISDN wall jack. If your wall jack has an RJ-11 connector, attach the RJ-45-to-RJ-11 adapter cable to the red cable, and then connect the RJ-11 connector to the ISDN wall jack.
-

Connect Telephone, Fax Machine, or Modem

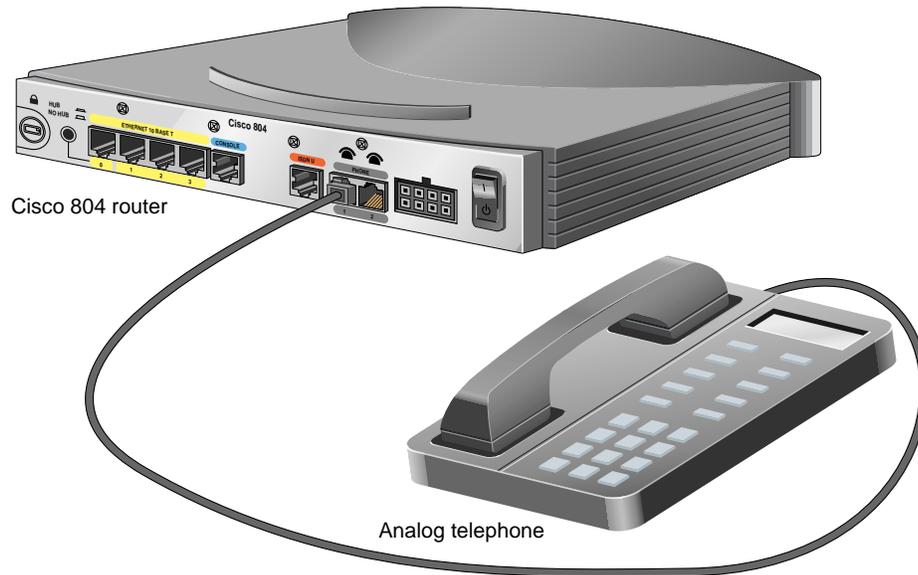
If you have a Cisco 803 or Cisco 804 router, you can connect a touch-tone telephone, fax machine, or modem. Use the cables provided with these devices.

The gray PHONE 1 and PHONE 2 ports are RJ-11 connectors. If you are outside of North America, you must buy and attach adapters that allow your telephones, faxes, or modems to be connected to these RJ-11 connectors. In some countries, these adapters need additional electronics to convert the telephones, faxes, or modems to work properly with the router phone ports. For example, in the United Kingdom, you must buy an adapter that also provides a *master socket*, which causes incoming calls to ring the connected devices. For information on recommended master sockets, see the *Cisco 800 Series Routers Hardware Installation Guide*.



Caution Do not connect the router telephone ports to the telephone wall jack. These ports are not meant for direct connection to the public network. This connection can damage your router.

Figure 6 Connecting an 800 Series Router to a Telephone

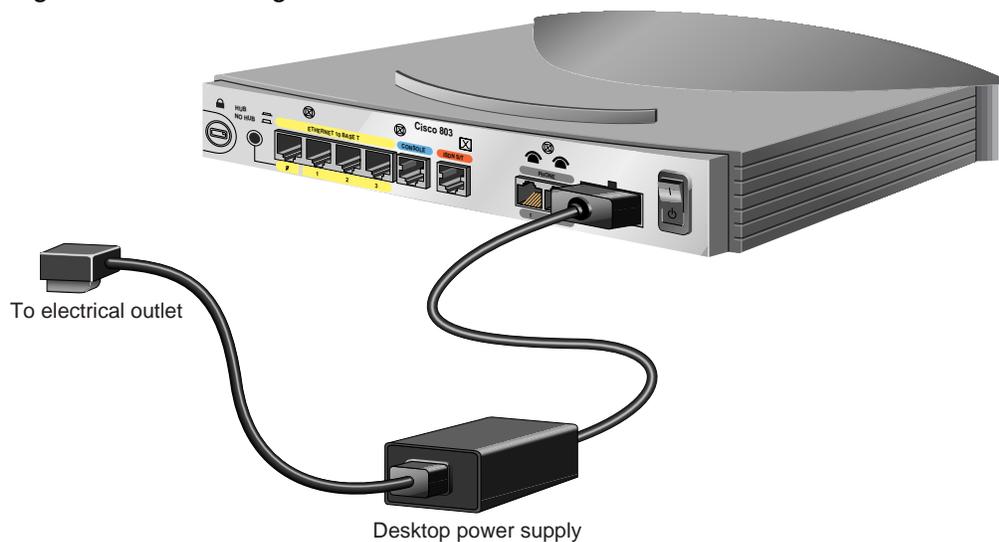


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- Step 1** Connect one end of the telephone cable to the gray PHONE 1 or PHONE 2 port. If you are connecting only one device, use the PHONE 1 port.
- Step 2** Connect the other end of the cable to your device.
-

Connect the Power and Turn On the Router

Follow these steps to connect power to the Cisco 800 series router and turn it on:

Figure 7 Connecting the Power to an 800 Series Router



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- Step 1** Make sure the router power is off. Press the power switch to standby (⏻).
 - Step 2** Connect the power supply cable to the 8-pin connector on the router.
 - Step 3** Connect the power cord to the desktop power supply.
 - Step 4** Connect the other end of the power cord to an electrical outlet.
 - Step 5** Turn ON the router. Press the power switch to on (⏻).
-

Verifying the LEDs

Verify the power connection and all other connections (links) by checking the LEDs in the table below. If the LEDs are not on, see the troubleshooting information in the *Cisco 800 Series Routers Hardware Installation Guide*.

Power/Link	LEDs To Check	Normal Patterns
Power	OK	On
To hub, server, PC, or workstation	Cisco 801 or Cisco 802 back panel: LINK LED Cisco 803 or Cisco 804 front panel: LKØ, LK1, LK2, and LK3 LEDs	On
To ISDN network using ISDN S/T port	LINE, CH1, or CH2	On. CH1 or CH2 is on only when the router has an active voice or data connection.
To ISDN network using ISDN U port	NT1, LINE, CH1, or CH2	On. CH1 or CH2 is on only when the router has an active voice or data connection.
To telephone, fax, or modem	PH1 or PH2 You can also pick up the handset and listen for a dial tone.	On. PH1 or PH2 is on only when telephone, fax, or modem is in use.

About the Product CD

The 800 and SOHO Series Product Documentation CD contains the technical publications for the 800 and SOHO series routers.

System Requirements

Processor	Pentium 150 MHz or faster recommended
PC OS	Microsoft Windows 95 Microsoft Windows 98 Microsoft Windows 2000 Microsoft Windows NT 4.0
Memory	64-MB DRAM
Drives	4x CD-ROM drive
Monitor	Color monitor capable of 800 x 600 pixel resolution
Software	Netscape 3.0 or later Internet Explorer 3.0 or later Adobe Acrobat Reader 3.0 or later

Documentation Exceptions

This CD does not contain certain publications that were incomplete or unavailable when this CD was produced. These documents are in the 800 and SOHO platform hardware accessory kits and should be consulted before installing and configuring your system. You can also access these documents on the Documentation page on Cisco Connection Online (CCO) at www.cisco.com.

- *Cisco 800 Series Routers Release Notes*
- *Cisco 828 and SOHO 78 Routers Release Notes*
- *IOS Release Notes for the Cisco 800 Series Router*
- *IOS Release Notes for the Cisco 828 Router*
- *Cisco Router Web Setup User Guide*

Using the CD Interface

When the CD is first launched, it automatically opens a browser session and displays the CD interface in the browser window. You can use the list of books in the left pane of your display to navigate directly to the book you want to view. Within the interface, you can use your mouse to:

- Hover over book titles in the left column for an overview of the document before opening a document.
- Select a book title from the document list on the left or from the document drop-down menu on the CD title bar.
- Click the Cisco Systems corporate icon to display Cisco support and service information.
- Click **About This CD** (notepad icon) to get additional information about this CD.
- Click **Send Us Your Feedback!** (pencil & notepad icon) to provide us with your feedback.
- Click **Get Acrobat Reader** to install a free copy of Adobe Acrobat Reader 4.0.

Changing the Display Properties of Documents

When you first launch the CD, you will notice a list of books in the left pane of your display that you can use to navigate directly to the book you want to view. When you select the document, Acrobat Reader opens the book in .pdf format and provides a list of topics in the left frame of the Acrobat window. To disable this option and view the book fully in the window, click the **Show/Hide Navigation Pane** button on the Acrobat toolbar. Note that when hiding bookmarks, the thumbnails, annotations, and articles are also hidden.

Printing Documents

To print a document:

-
- Step 1** Click the **Printer** icon on the Acrobat toolbar.
The Windows Print Dialog box appears.
- Step 2** Select your default printer and click **OK**.
-

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You can order printed copies of the documents on this CD and additional copies of this CD on the 800 and SOHO platform product ordering pages on Cisco Connection Online (CCO). Registered CCO users can order documentation for other Cisco products and the Cisco Documentation CD-ROM (containing all Cisco documentation) through our online Subscription Services at <http://www.cisco.com/cgi-bin/subcat/kaojump.cgi>.

Nonregistered CCO users can order documentation through a local account representative by calling Cisco's corporate headquarters (California, USA) at 408 526-4000 or, in North America, by calling 800 553-NETS (6387).

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