

Cisco 1720 Router Cabling and Installation

- 1** Cisco One-Year Limited Hardware Warranty Terms
- 2** Overview
- 3** Parts List
- 4** Install the Router
- 5** Verify Your Installation
- 6** For More Information
- 7** Obtaining Documentation
- 8** Documentation Feedback
- 9** Cisco Product Security Overview
- 10** Obtaining Technical Assistance
- 11** Obtaining Additional Publications and Information



1 Cisco One-Year Limited Hardware Warranty Terms

There are special terms applicable to your hardware warranty and various services that you can use during the warranty period. Your formal Warranty Statement, including the warranties and license agreements applicable to Cisco software, is available on Cisco.com. Follow these steps to access and download the *Cisco Information Packet* and your warranty and license agreements from Cisco.com.

1. Launch your browser, and go to this URL:

http://www.cisco.com/univercd/cc/td/doc/es_inpk/cetrans.htm

The Warranties and License Agreements page appears.

2. To read the *Cisco Information Packet*, follow these steps:

- a. Click the **Information Packet Number** field, and make sure that the part number 78-5235-03A0 is highlighted.
- b. Select the language in which you would like to read the document.
- c. Click **Go**.

The Cisco Limited Warranty and Software License page from the Information Packet appears.

- d. Read the document online, or click the **PDF** icon to download and print the document in Adobe Portable Document Format (PDF).

Note You must have Adobe Acrobat Reader to view and print PDF files. You can download the reader from Adobe's website: <http://www.adobe.com>

3. To read translated and localized warranty information about your product, follow these steps:

- a. Enter this part number in the Warranty Document Number field:

78-10747-01C0

- b. Select the language in which you would like to view the document.
- c. Click **Go**.

The Cisco warranty page appears.

- d. Read the document online, or click the **PDF** icon to download and print the document in Adobe Portable Document Format (PDF).

You can also contact the Cisco service and support website for assistance:

http://www.cisco.com/public/Support_root.shtml.

Duration of Hardware Warranty

One (1) Year

Replacement, Repair, or Refund Policy for Hardware

Cisco or its service center will use commercially reasonable efforts to ship a replacement part within ten (10) working days after receipt of a Return Materials Authorization (RMA) request. Actual delivery times can vary, depending on the customer location.

Cisco reserves the right to refund the purchase price as its exclusive warranty remedy.

To Receive a Return Materials Authorization (RMA) Number

Contact the company from whom you purchased the product. If you purchased the product directly from Cisco, contact your Cisco Sales and Service Representative.

Complete the information below, and keep it for reference.

Company product purchased from	
Company telephone number	
Product model number	
Product serial number	
Maintenance contract number	

2 Overview

This document describes the basic process of setting up and installing the Cisco 1720 router. Additional documentation can be found on Cisco.com.

3 Parts List

Your router package should include the following items:

- One Cisco 1700 series router
- One blue RJ-45-to-DB-9 console cable
- One black power supply
- One black power supply cord
- Product documentation

Items You Need to Provide

Depending on your network environment, you must provide some of the following items to completely install the router:

- Ethernet hub or switch to connect the router to the local network
- Straight-through Ethernet cable (RJ-45-to-RJ-45) to connect the router to the hub or switch
- Cisco WAN interface card if you did not order the router with cards already installed
- Cables to connect WAN interface cards to the appropriate WAN services
- External NT-1 or DSU/CSU if needed to connect a WAN interface card to WAN services

4 Install the Router

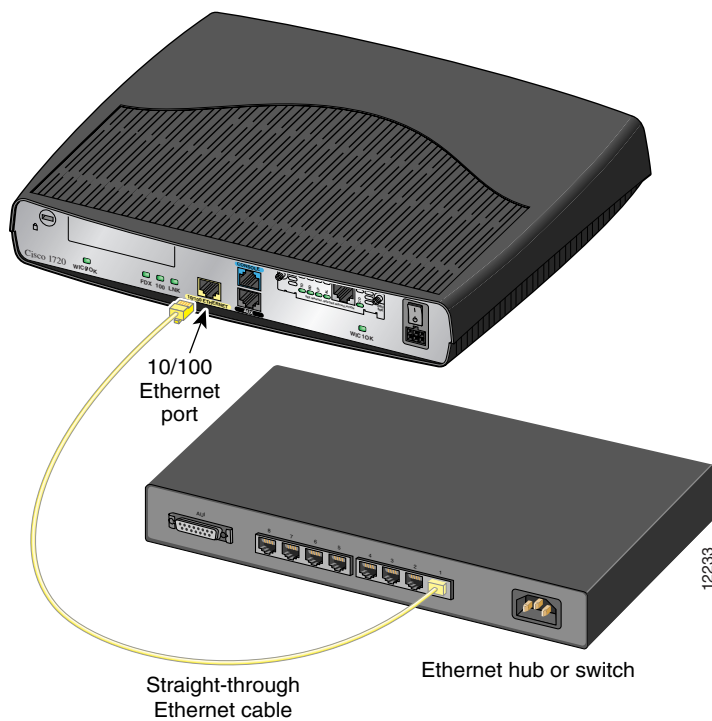
Follow these steps to install the router.

Connect the Router to the Local Network

You need to provide a straight-through Ethernet cable for connecting the router to the local Ethernet network. For more information on these cables, refer to the “Cabling Specifications” chapter in the hardware installation guide that came with the router.

Step 1 Connect one end of the Ethernet cable to the yellow 10/100 ETHERNET port.

Figure 1 *Installing the Router*



Step 2 Connect the other end to a 10-, 100-, or 10/100-Mbps port on the hub or switch. The router senses the port speed and duplex mode and then operates at the same speed and duplex.




Caution

Always connect the Ethernet cable to the yellow ports on the router. Do not connect the cable to an ISDN S/T or U port (on a WAN interface card) or to an NT1 that is connected to a WAN interface card. Accidentally connecting the cable to the wrong port can damage your router.

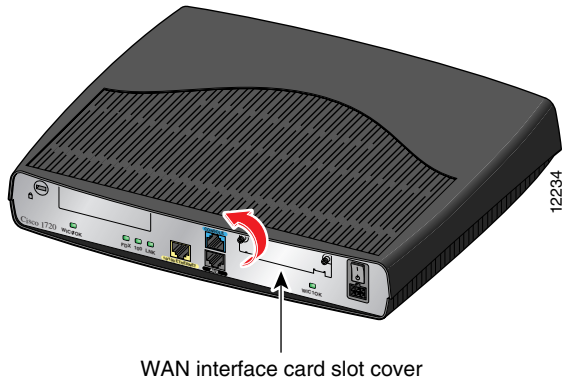
Install the WAN Interface Card(s)

Look for a WAN interface card in one or both of the two slots on the rear of the router. If a card is already installed, connect it to the WAN line according to the <Emphasis>Cisco WAN Interface Cards Hardware Installation Guide that came with the card. To install a card in either slot, follow these instructions:

Step 1 Set the power switch to the STANDBY () position and confirm the router is not connected to the power supply.

Step 2 Remove the screws that hold the slot cover in place, and then remove the slot cover.

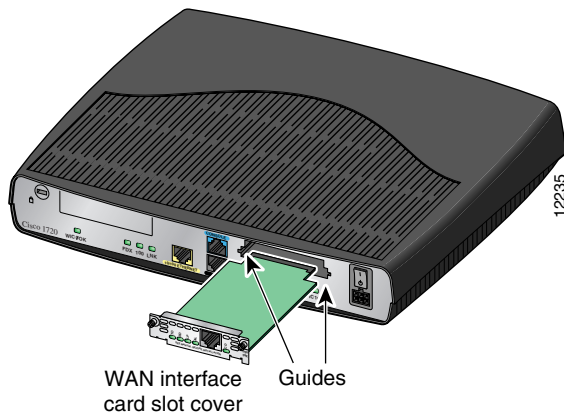
Figure 2 Locating the WAN Interface Card



Step 3 Hold the card by the edges and line it up with the guide on the card slot.

Step 4 Push the card into the slot until it is seated in the connector and the front panel is flush with the router rear panel.

Figure 3 Installing the WAN Interface Card



Step 5 Tighten the screws that are in the card.

Step 6 Connect the card port to the WAN line according to the <Emphasis>Cisco WAN Interface Cards Hardware Installation Guide.

Connect a PC to the Router

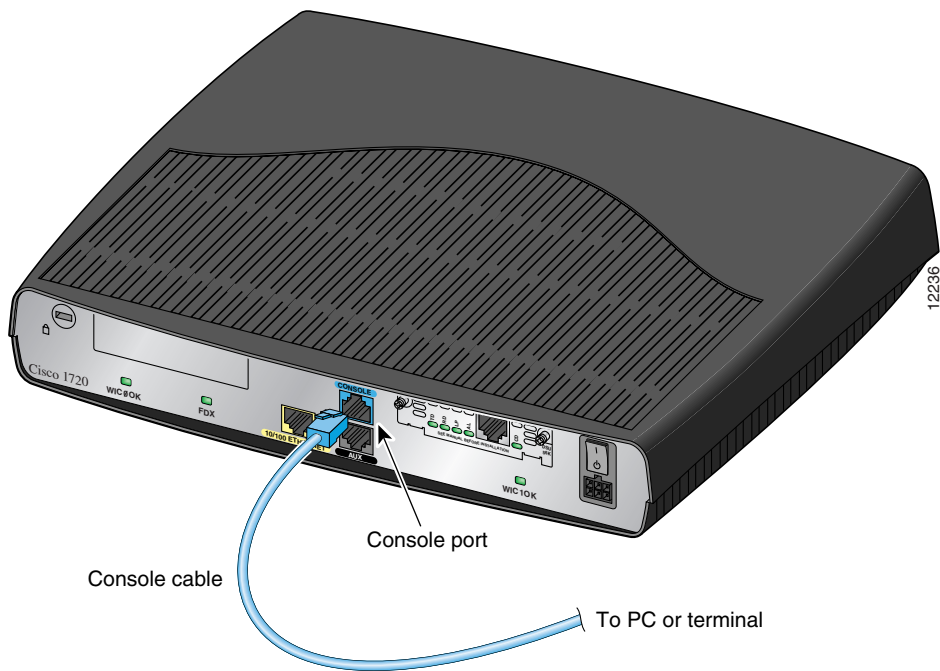
To use Cisco IOS software to configure the router, it must be connected to a terminal or to a PC with terminal-emulation software. Terminal emulation software should be configured with the following settings: 9600 baud, 8 data bits, no parity bits, and 1 stop bit. The *Cisco 1700 Router Software Configuration Guide* describes how to configure the router using Cisco IOS software.

Take the following steps to connect the router to one of these devices:

Step 1 Connect one end of the blue console cable (included) to the CONSOLE port on the router rear panel.

Step 2 Connect the RJ-45 end of the gray DB-9-to-RJ-45 adapter (included) to the unconnected end of the console cable.

Figure 4 Connecting a PC to the Router



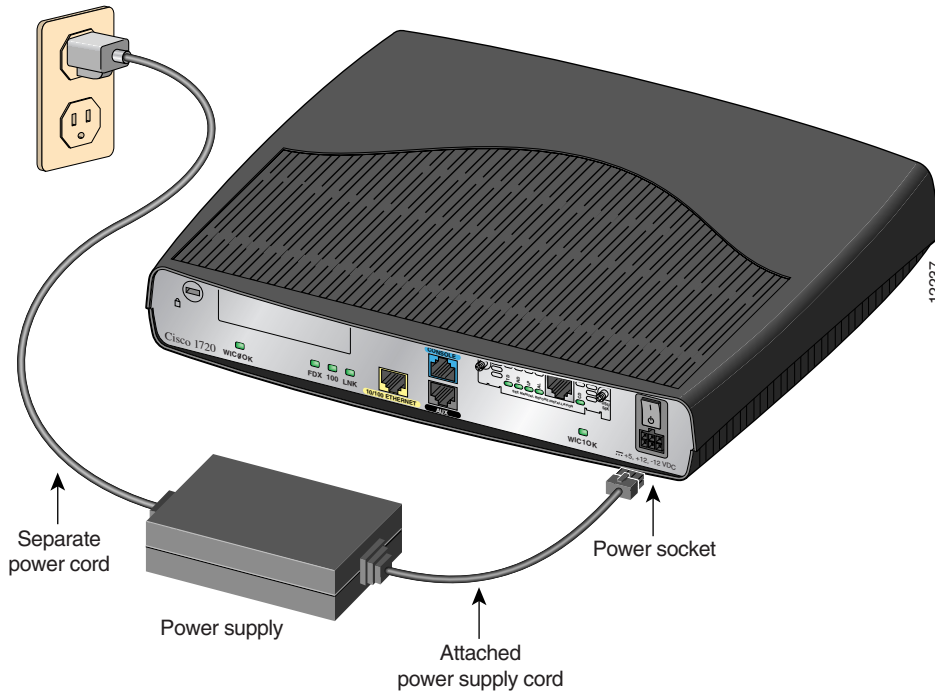
Step 3 Connect the DB-9 end of the adapter to the console port (also called the serial port) on your PC. If this adapter does not fit your PC console port, you must provide an adapter that fits.

Connect the Power Supply

Connect the router to the power supply as shown below.

- Step 1** Connect the attached power-supply cord to the power socket (labeled +5, +12, -12 VDC) on the router rear panel.
- Step 2** Connect the separate power cord to the power socket on the power supply.
- Step 3** Connect the other end of the separate power cord to a power outlet.
- Step 4** Turn on the router by pressing the power switch to the ON (|) position.

Figure 5 Connecting the Power Supply



- Step 5** Confirm that the router has power by checking that the PWR LED on the front panel is on.

5 Verify Your Installation

After the router is powered on, the following LEDs confirm that you have correctly installed your router.

Table 1 LEDs

LED	Location	What to Look For
PWR	Front	On when power is being supplied to the router.
OK	Front	On when the router software is loaded and functional. Blinking when the router is running a power-on self-test (POST). Continuous blinking can indicate a problem with the router. Refer to the “Troubleshooting” chapter in the hardware installation guide for more information.
LNK	Rear	On when the router is correctly connected to the local Ethernet network through the 10/100 ETHERNET port.
WIC0 OK and WIC1 OK	Rear	On when a WAN interface card is correctly installed in the corresponding WAN interface card slot.
ETH ACT	Front	Blinking when there is network traffic on the local Ethernet LAN.
WIC0 ACT and WIC1 ACT	Front	On solid or blinking when there is data traffic on the WAN interface card port(s). Refer to Table 1-4 in the hardware installation guide for detailed information.

6 For More Information

For more information about installing or configuring your Cisco 1700 router, refer to the following documents available on Cisco.com:

- *Cisco 1700 Router Hardware Installation Guide*
- *Cisco 1700 Router Software Configuration Guide*
- *Cisco WAN Interface Cards Hardware Installation Guide*

7 Obtaining Documentation

Cisco documentation and additional literature are available on Cisco.com. Cisco also provides several ways to obtain technical assistance and other technical resources. These sections explain how to obtain technical information from Cisco Systems.

Cisco.com

You can access the most current Cisco documentation at this URL:

<http://www.cisco.com/univercd/home/home.htm>

You can access the Cisco website at this URL:

<http://www.cisco.com>

You can access international Cisco websites at this URL:

http://www.cisco.com/public/countries_languages.shtml

Documentation DVD

Cisco documentation and additional literature are available in a Documentation DVD package, which may have shipped with your product. The Documentation DVD is updated regularly and may be more current than printed documentation. The Documentation DVD package is available as a single unit.

Registered Cisco.com users (Cisco direct customers) can order a Cisco Documentation DVD (product number DOC-DOCDVD=) from the Ordering tool or Cisco Marketplace.

Cisco Ordering tool:

<http://www.cisco.com/en/US/partner/ordering/>

Cisco Marketplace:

<http://www.cisco.com/go/marketplace/>

Ordering Documentation

You can find instructions for ordering documentation at this URL:

http://www.cisco.com/univercd/cc/td/doc/es_inpk/pdi.htm

You can order Cisco documentation in these ways:

- Registered Cisco.com users (Cisco direct customers) can order Cisco product documentation from the Ordering tool:
<http://www.cisco.com/en/US/partner/ordering/>
- Nonregistered Cisco.com users can order documentation through a local account representative by calling Cisco Systems Corporate Headquarters (California, USA) at 408 526-7208 or, elsewhere in North America, by calling 1 800 553-NETS (6387).

8 Documentation Feedback

You can send comments about technical documentation to bug-doc@cisco.com.

You can submit comments by using the response card (if present) behind the front cover of your document or by writing to the following address:

Cisco Systems
Attn: Customer Document Ordering
170 West Tasman Drive
San Jose, CA 95134-9883

We appreciate your comments.

9 Cisco Product Security Overview

Cisco provides a free online Security Vulnerability Policy portal at this URL:

http://www.cisco.com/en/US/products/products_security_vulnerability_policy.html

From this site, you can perform these tasks:

- Report security vulnerabilities in Cisco products.
- Obtain assistance with security incidents that involve Cisco products.
- Register to receive security information from Cisco.

A current list of security advisories and notices for Cisco products is available at this URL:

<http://www.cisco.com/go/psirt>

If you prefer to see advisories and notices as they are updated in real time, you can access a Product Security Incident Response Team Really Simple Syndication (PSIRT RSS) feed from this URL:

http://www.cisco.com/en/US/products/products_psirt_rss_feed.html

Reporting Security Problems in Cisco Products

Cisco is committed to delivering secure products. We test our products internally before we release them, and we strive to correct all vulnerabilities quickly. If you think that you might have identified a vulnerability in a Cisco product, contact PSIRT:

- Emergencies—security-alert@cisco.com
- Nonemergencies—psirt@cisco.com



Tip We encourage you to use Pretty Good Privacy (PGP) or a compatible product to encrypt any sensitive information that you send to Cisco. PSIRT can work from encrypted information that is compatible with PGP versions 2.x through 8.x.

Never use a revoked or an expired encryption key. The correct public key to use in your correspondence with PSIRT is the one that has the most recent creation date in this public key server list:

<http://pgp.mit.edu:11371/pks/lookup?search=psirt%40cisco.com&op=index&exact=on>

In an emergency, you can also reach PSIRT by telephone:

- 1 877 228-7302
- 1 408 525-6532

10 Obtaining Technical Assistance

For all customers, partners, resellers, and distributors who hold valid Cisco service contracts, Cisco Technical Support provides 24-hour-a-day, award-winning technical assistance. The Cisco Technical Support Website on Cisco.com features extensive online support resources. In addition, Cisco Technical Assistance Center (TAC) engineers provide telephone support. If you do not hold a valid Cisco service contract, contact your reseller.

Cisco Technical Support Website

The Cisco Technical Support Website provides online documents and tools for troubleshooting and resolving technical issues with Cisco products and technologies. The website is available 24 hours a day, 365 days a year, at this URL:

<http://www.cisco.com/techsupport>

Access to all tools on the Cisco Technical Support Website requires a Cisco.com user ID and password. If you have a valid service contract but do not have a user ID or password, you can register at this URL:

<http://tools.cisco.com/RPF/register/register.do>



Note Use the Cisco Product Identification (CPI) tool to locate your product serial number before submitting a web or phone request for service. You can access the CPI tool from the Cisco Technical Support Website by clicking the **Tools & Resources** link under Documentation & Tools. Choose **Cisco Product Identification Tool** from the Alphabetical Index drop-down list, or click the **Cisco Product Identification Tool** link under Alerts & RMAs. The CPI tool offers three search options: by product ID or model name; by tree view; or for certain products, by copying and pasting **show** command output. Search results show an illustration of your product with the serial number label location highlighted. Locate the serial number label on your product and record the information before placing a service call.

Submitting a Service Request

Using the online TAC Service Request Tool is the fastest way to open S3 and S4 service requests. (S3 and S4 service requests are those in which your network is minimally impaired or for which you require product information.) After you describe your situation, the TAC Service Request Tool provides recommended solutions. If your issue is not resolved using the recommended resources, your service request is assigned to a Cisco TAC engineer. The TAC Service Request Tool is located at this URL:

<http://www.cisco.com/techsupport/servicerequest>

For S1 or S2 service requests or if you do not have Internet access, contact the Cisco TAC by telephone. (S1 or S2 service requests are those in which your production network is down or severely degraded.) Cisco TAC engineers are assigned immediately to S1 and S2 service requests to help keep your business operations running smoothly.

To open a service request by telephone, use one of the following numbers:

Asia-Pacific: +61 2 8446 7411 (Australia: 1 800 805 227)

EMEA: +32 2 704 55 55

USA: 1 800 553-2447

For a complete list of Cisco TAC contacts, go to this URL:

<http://www.cisco.com/techsupport/contacts>

Definitions of Service Request Severity

To ensure that all service requests are reported in a standard format, Cisco has established severity definitions.

Severity 1 (S1)—Your network is “down,” or there is a critical impact to your business operations. You and Cisco will commit all necessary resources around the clock to resolve the situation.

Severity 2 (S2)—Operation of an existing network is severely degraded, or significant aspects of your business operation are negatively affected by inadequate performance of Cisco products. You and Cisco will commit full-time resources during normal business hours to resolve the situation.

Severity 3 (S3)—Operational performance of your network is impaired, but most business operations remain functional. You and Cisco will commit resources during normal business hours to restore service to satisfactory levels.

Severity 4 (S4)—You require information or assistance with Cisco product capabilities, installation, or configuration. There is little or no effect on your business operations.

11 Obtaining Additional Publications and Information

Information about Cisco products, technologies, and network solutions is available from various online and printed sources.

- Cisco Marketplace provides a variety of Cisco books, reference guides, and logo merchandise. Visit Cisco Marketplace, the company store, at this URL:
<http://www.cisco.com/go/marketplace/>
- *Cisco Press* publishes a wide range of general networking, training and certification titles. Both new and experienced users will benefit from these publications. For current Cisco Press titles and other information, go to Cisco Press at this URL:
<http://www.ciscopress.com>
- *Packet* magazine is the Cisco Systems technical user magazine for maximizing Internet and networking investments. Each quarter, Packet delivers coverage of the latest industry trends, technology breakthroughs, and Cisco products and solutions, as well as network deployment and troubleshooting tips, configuration examples, customer case studies, certification and training information, and links to scores of in-depth online resources. You can access Packet magazine at this URL:
<http://www.cisco.com/packet>
- *iQ Magazine* is the quarterly publication from Cisco Systems designed to help growing companies learn how they can use technology to increase revenue, streamline their business, and expand services. The publication identifies the challenges facing these companies and the technologies to help solve them, using real-world case studies and business strategies to help readers make sound technology investment decisions. You can access iQ Magazine at this URL:
<http://www.cisco.com/go/iqmagazine>
- *Internet Protocol Journal* is a quarterly journal published by Cisco Systems for engineering professionals involved in designing, developing, and operating public and private internets and intranets. You can access the Internet Protocol Journal at this URL:
<http://www.cisco.com/ipj>
- World-class networking training is available from Cisco. You can view current offerings at this URL:
<http://www.cisco.com/en/US/learning/index.html>



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