



Installing the Virtual Private Network Module in a Cisco 1700 Series Router

This document describes how to install the Virtual Private Network (VPN) module in your Cisco 1700 series router and includes the following sections:

- [Tools and Equipment Required](#)
- [VPN Module Parts](#)
- [Safety](#)
- [Opening the Cisco 1700 Series Router Chassis](#)
- [Installing the VPN Module in a Cisco 1720 Router](#)
- [Installing the VPN Module in a Cisco 1750 Router](#)
- [Installing the VPN Module in a Cisco 1751 Router](#)
- [Closing the Cisco 1700 Series Router Chassis](#)

[Table 1](#) describes the Cisco parts to which this document applies.

Table 1 *Cisco 1700 Series VPN Module*

Cisco Part Number	Description
MOD1700-VPN=	VPN module for Cisco 1700 series routers

Tools and Equipment Required

The following items are required to install the VPN module:

- Number-1 Phillips screwdriver
- VPN module and associated parts

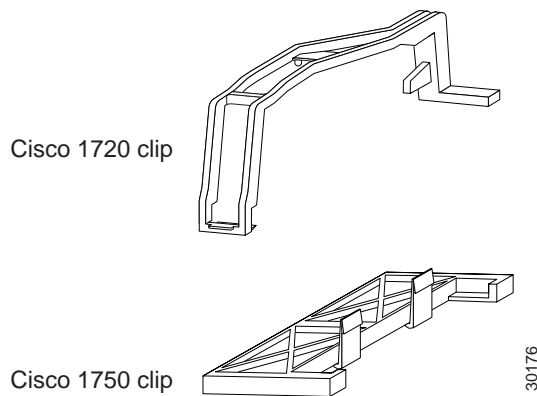


VPN Module Parts

The following parts required for installation and are included with the VPN module.:

- Two metal standoffs.
- Four screws.
- Retention clips for Cisco 1720 or Cisco 1750 series routers, as shown in [Figure 1](#). (Retention clips are not required for Cisco 1751 series routers.)

Figure 1 *Retention Clips*



Safety

Safety warnings appear throughout this publication in procedures that can harm you if they are performed incorrectly. A warning symbol precedes each warning statement.

Warning Conventions



Warning

This warning symbol means **danger**. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents. To see translations of the warnings that appear in this publication, refer to the *Regulatory Compliance and Safety Information* document that accompanied this device.

Waarschuwing

Dit waarschuwingssymbool betekent gevaar. U verkeert in een situatie die lichamelijk letsel kan veroorzaken. Voordat u aan enige apparatuur gaat werken, dient u zich bewust te zijn van de bij elektrische schakelingen betrokken risico's en dient u op de hoogte te zijn van standaard maatregelen om ongelukken te voorkomen. Voor vertalingen van de waarschuwingen die in deze publicatie verschijnen, kunt u het document *Regulatory Compliance and Safety Information* (Informatie over naleving van veiligheids- en andere voorschriften) raadplegen dat bij dit toestel is ingesloten.

Varoitus	Tämä varoitusmerkki merkitsee vaaraa. Olet tilanteessa, joka voi johtaa ruumiinvammaan. Ennen kuin työskentelet minkään laitteiston parissa, ota selvää sähkökytkentöihin liittyvistä vaaroista ja tavanomaisista onnettomuuksien ehkäisykeinoista. Tässä julkaisussa esiintyvien varoitusten käännökset löydät laitteen mukana olevasta <i>Regulatory Compliance and Safety Information</i> -kirjasesta (määräysten noudattaminen ja tietoa turvallisuudesta).
Attention	Ce symbole d'avertissement indique un danger. Vous vous trouvez dans une situation pouvant causer des blessures ou des dommages corporels. Avant de travailler sur un équipement, soyez conscient des dangers posés par les circuits électriques et familiarisez-vous avec les procédures couramment utilisées pour éviter les accidents. Pour prendre connaissance des traductions d'avertissements figurant dans cette publication, consultez le document <i>Regulatory Compliance and Safety Information</i> (Conformité aux règlements et consignes de sécurité) qui accompagne cet appareil.
Warnung	Dieses Warnsymbol bedeutet Gefahr. Sie befinden sich in einer Situation, die zu einer Körperverletzung führen könnte. Bevor Sie mit der Arbeit an irgendeinem Gerät beginnen, seien Sie sich der mit elektrischen Stromkreisen verbundenen Gefahren und der Standardpraktiken zur Vermeidung von Unfällen bewußt. Übersetzungen der in dieser Veröffentlichung enthaltenen Warnhinweise finden Sie im Dokument <i>Regulatory Compliance and Safety Information</i> (Informationen zu behördlichen Vorschriften und Sicherheit), das zusammen mit diesem Gerät geliefert wurde.
Avvertenza	Questo simbolo di avvertenza indica un pericolo. La situazione potrebbe causare infortuni alle persone. Prima di lavorare su qualsiasi apparecchiatura, occorre conoscere i pericoli relativi ai circuiti elettrici ed essere al corrente delle pratiche standard per la prevenzione di incidenti. La traduzione delle avvertenze riportate in questa pubblicazione si trova nel documento <i>Regulatory Compliance and Safety Information</i> (Conformità alle norme e informazioni sulla sicurezza) che accompagna questo dispositivo.
Advarsel	Dette varselsymbolet betyr fare. Du befinner deg i en situasjon som kan føre til personskade. Før du utfører arbeid på utstyr, må du være oppmerksom på de faremomentene som elektriske kretser innebærer, samt gjøre deg kjent med vanlig praksis når det gjelder å unngå ulykker. Hvis du vil se oversettelser av de advarslene som finnes i denne publikasjonen, kan du se i dokumentet <i>Regulatory Compliance and Safety Information</i> (Overholdelse av forskrifter og sikkerhetsinformasjon) som ble levert med denne enheten.
Aviso	Este símbolo de aviso indica perigo. Encontra-se numa situação que lhe poderá causar danos físicos. Antes de começar a trabalhar com qualquer equipamento, familiarize-se com os perigos relacionados com circuitos eléctricos, e com quaisquer práticas comuns que possam prevenir possíveis acidentes. Para ver as traduções dos avisos que constam desta publicação, consulte o documento <i>Regulatory Compliance and Safety Information</i> (Informação de Segurança e Disposições Reguladoras) que acompanha este dispositivo.
¡Advertencia!	Este símbolo de aviso significa peligro. Existe riesgo para su integridad física. Antes de manipular cualquier equipo, considerar los riesgos que entraña la corriente eléctrica y familiarizarse con los procedimientos estándar de prevención de accidentes. Para ver una traducción de las advertencias que aparecen en esta publicación, consultar el documento titulado <i>Regulatory Compliance and Safety Information</i> (Información sobre seguridad y conformidad con las disposiciones reglamentarias) que se acompaña con este dispositivo.

Varning! Denna varningssymbol signalerar fara. Du befinner dig i en situation som kan leda till personskada. Innan du utför arbete på någon utrustning måste du vara medveten om farorna med elkretsar och känna till vanligt förfarande för att förebygga skador. Se förklaringar av de varningar som förekommer i denna publikation i dokumentet *Regulatory Compliance and Safety Information* (Efterrättelse av föreskrifter och säkerhetsinformation), vilket medföljer denna anordning.

Safety Warnings

The following warnings apply when you are installing a card or module or working with the power supply:



Warning

Before working on a system that has an on/off switch, turn OFF the power and unplug the power cord.



Warning

Before opening the chassis, disconnect the telephone-network cables to avoid contact with telephone-network voltages.



Warning

Do not work on the system or connect or disconnect cables during periods of lightning activity.



Warning

Do not touch the power supply when the power cord is connected. For systems with a power switch, line voltages are present within the power supply even when the power switch is off and the power cord is connected. For systems without a power switch, line voltages are present within the power supply when the power cord is connected.



Warning

Read the installation instructions before you connect the system to its power source.



Warning

Ultimate disposal of this product should be handled according to all national laws and regulations.



Warning

Before working on equipment that is connected to power lines, remove jewelry (including rings, necklaces, and watches). Metal objects will heat up when connected to power and ground and can cause serious burns or weld the metal object to the terminals.



Warning

Only trained and qualified personnel should be allowed to install or replace this equipment.

**Warning**

Hazardous network voltages are present in WAN ports regardless of whether power to the router is OFF or ON. To avoid electric shock, use caution when working near WAN ports. When detaching cables, detach the end away from the router first.

Preventing Electrostatic Discharge Damage

Before installing a VPN module, read the electrostatic discharge (ESD) instructions in this section. ESD is a discharge of stored static electricity that can damage equipment and impair electrical circuitry. It occurs when electronic components are improperly handled and can result in complete or intermittent failures.

Following are guidelines for preventing ESD damage:

- Before opening the chassis, turn the router power switch to off (O).
- Disconnect the power cable to the router.
- Always use an ESD-preventive wrist or ankle strap and ensure that it makes good skin contact.
- Avoid contact between equipment and clothing. The wrist or ankle strap protects the equipment only from ESD voltages on the body; ESD voltages on clothing can still cause damage.
- Handle printed circuit cards by the edges only; avoid touching the components, traces, or any connector pins.
- Place a removed card component on an antistatic surface or in a static shielding bag.
- Do not remove the wrist or ankle strap until the installation is complete.

**Caution**

To avoid damaging the equipment, periodically check the resistance value of the antistatic strap. The measurement should be between 1 and 10 megohms (Mohms).

**Warning**

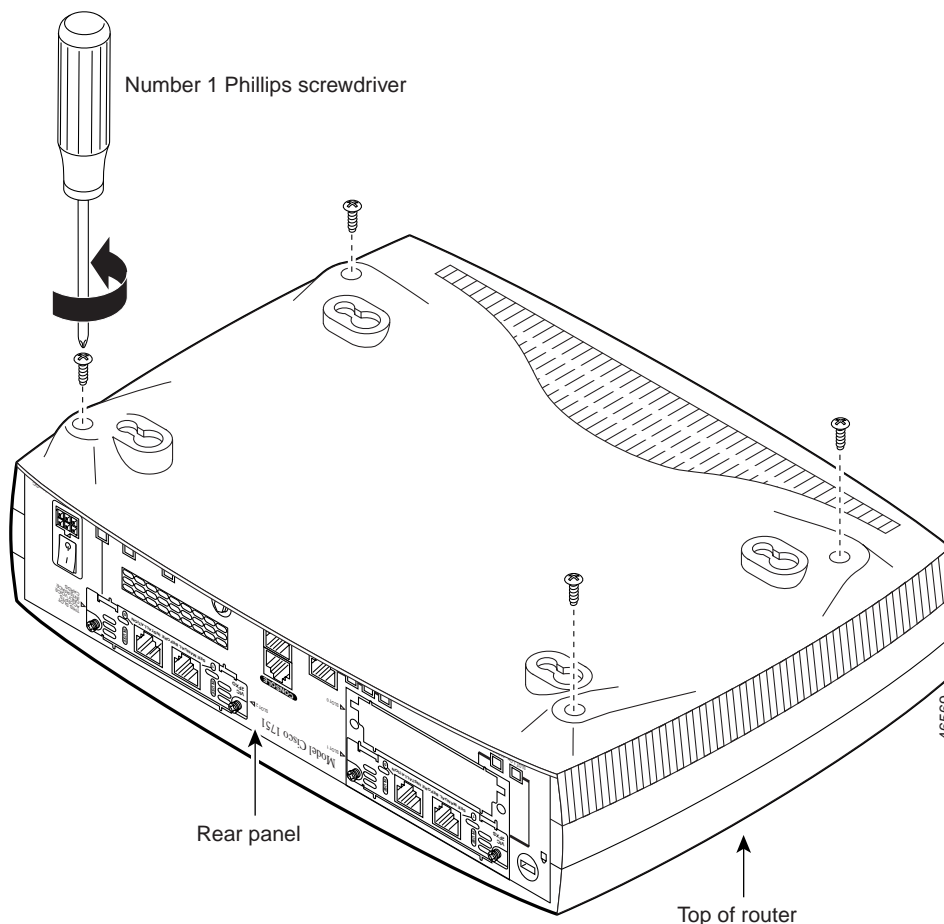
During this procedure, wear grounding wrist straps to avoid ESD damage to the router. Do not directly touch the backplane with your hand or any metal tool, or you could shock yourself.

Opening the Cisco 1700 Series Router Chassis

In order to install the VPN module in a Cisco 1700 series router, you must open the router chassis. Opening the chassis requires a number one Phillips screwdriver.

Follow these steps to open the chassis:

- Step 1** Make sure the router is turned off and is disconnected from the power supply.
- Step 2** Turn the router upside down, and rest the router on a flat surface.
- Step 3** Use the Phillips screwdriver to remove the four screws that hold the top and bottom of the chassis together, as shown in [Figure 2](#).

Figure 2 Removing the Chassis Screws (Cisco 1751 Router Shown)

- Step 4** Turn the router right side up).
- Step 5** Gently pull the top of the router (facing toward you) up and away from the bottom of the router. At this point, disconnect the fan, which is inside the top of the router chassis, from the motherboard. Disconnect the fan cable from the connector (labeled FAN) on the motherboard.
- Step 6** Place the router bottom on an antistatic mat, and begin installing the VPN module.

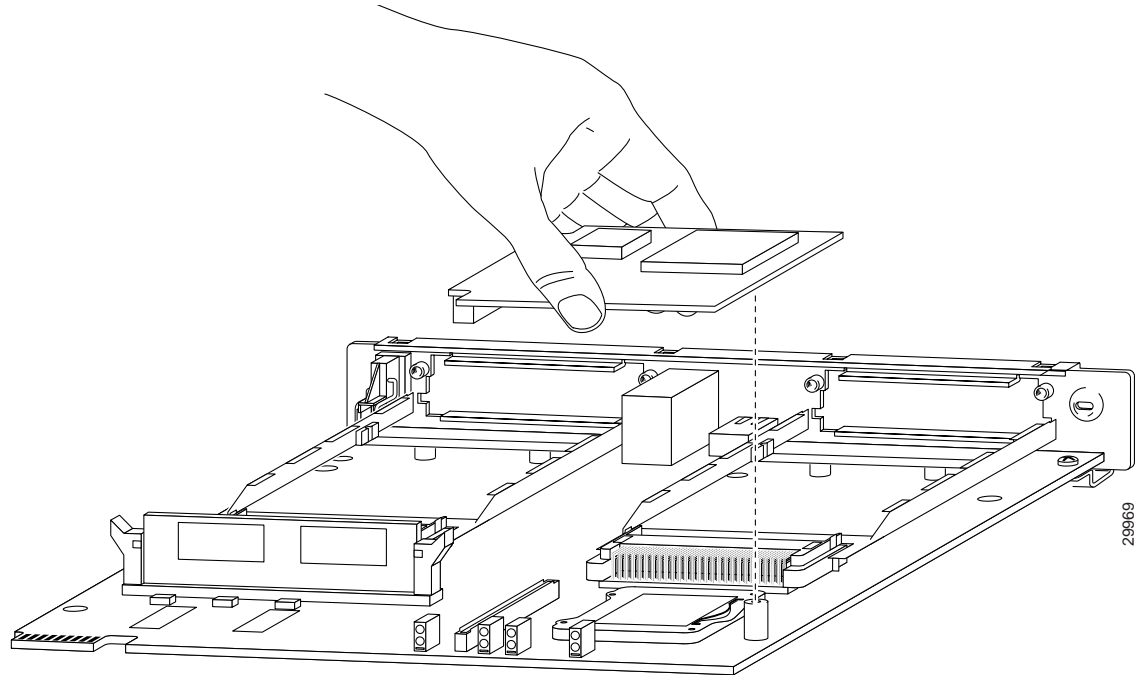
Installing the VPN Module in a Cisco 1720 Router

This section describes how to install the VPN module in a Cisco 1720 router.

Follow the steps in this section to install the VPN module.

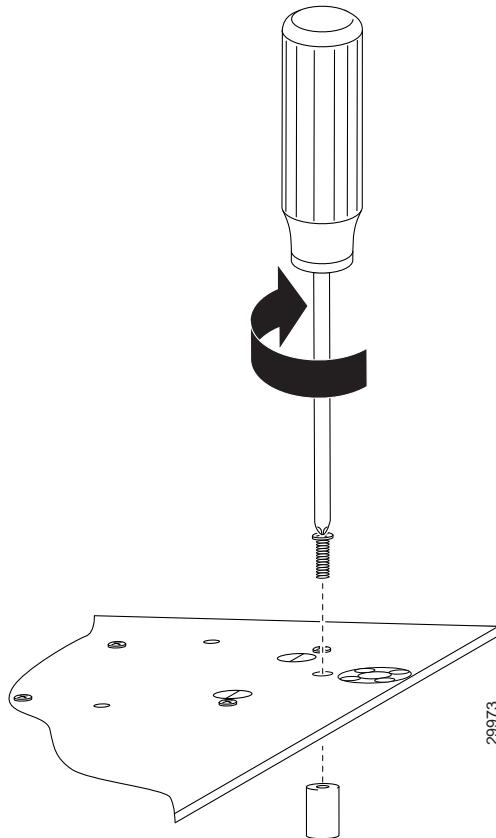
- Step 1** Using one of the screws provided, attach the standoff to the top of the 1720 router motherboard.
- Locate the small hole in the motherboard just to the right of the Flash memory at the right front corner of the motherboard (when facing the front of the router). [Figure 3](#) shows the location of the standoff at the bottom of the dotted line.

Figure 3 Cisco 1720 Motherboard—VPN Module Location



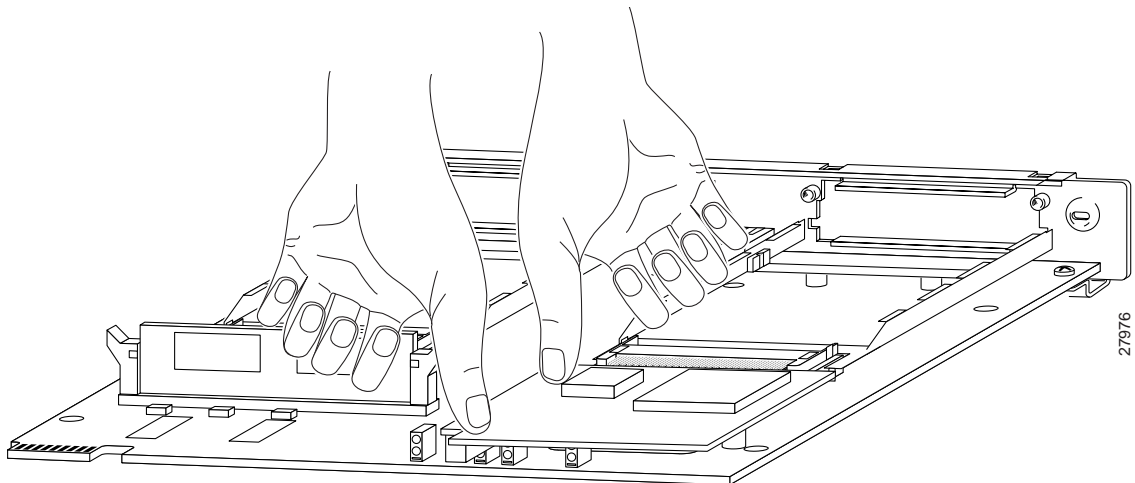
- b. Turn the motherboard upside down, and attach the standoff to it, using one of the screws provided as shown in [Figure 4](#).

Figure 4 *Securing the Standoff to the 1720 Motherboard*



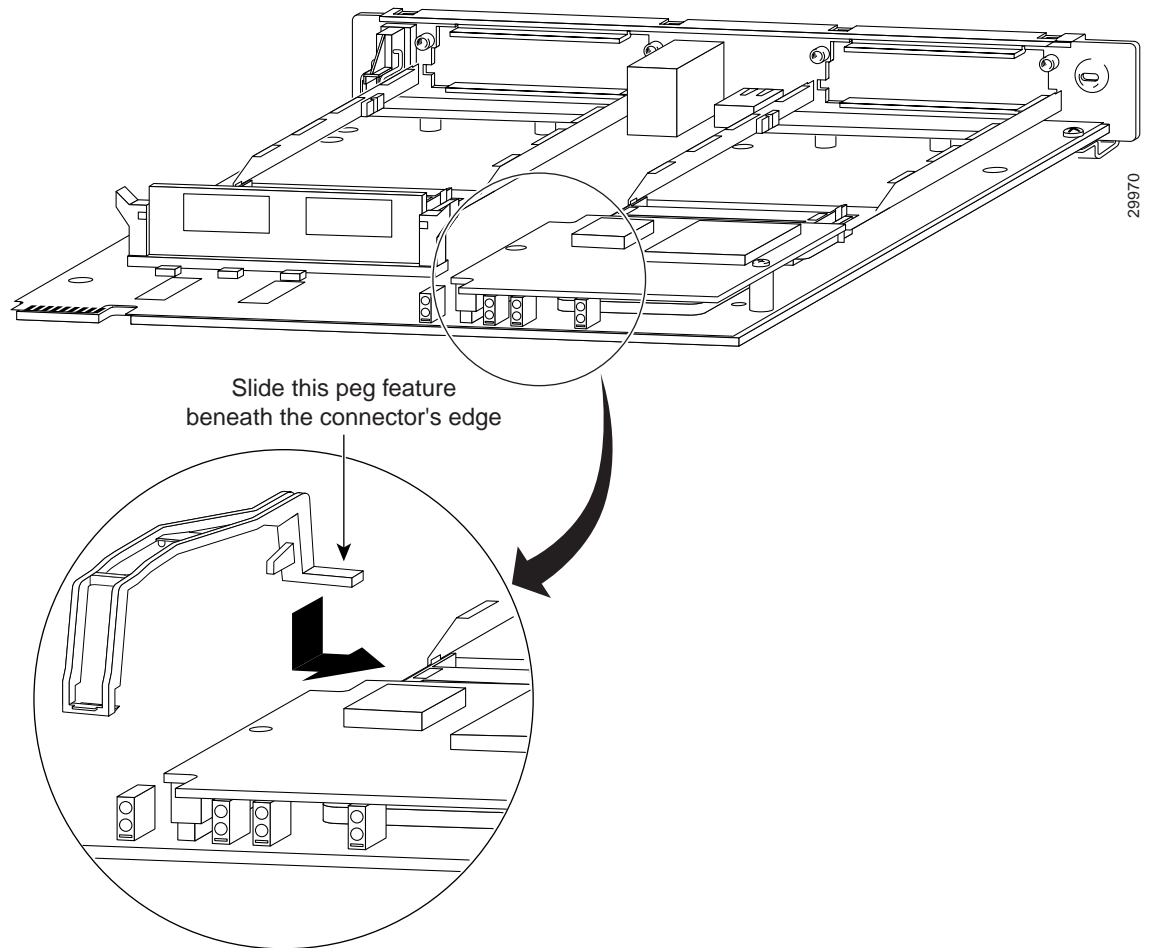
- Step 2** The VPN module plugs into a socket just to the left of the Flash memory at the right front corner of the motherboard (when facing the front of the router). [Figure 3](#) shows the location of the VPN module socket.
- Step 3** Pushing down with both thumbs as shown in [Figure 5](#), plug the VPN module into the socket.

Figure 5 *Plugging In the VPN Module*



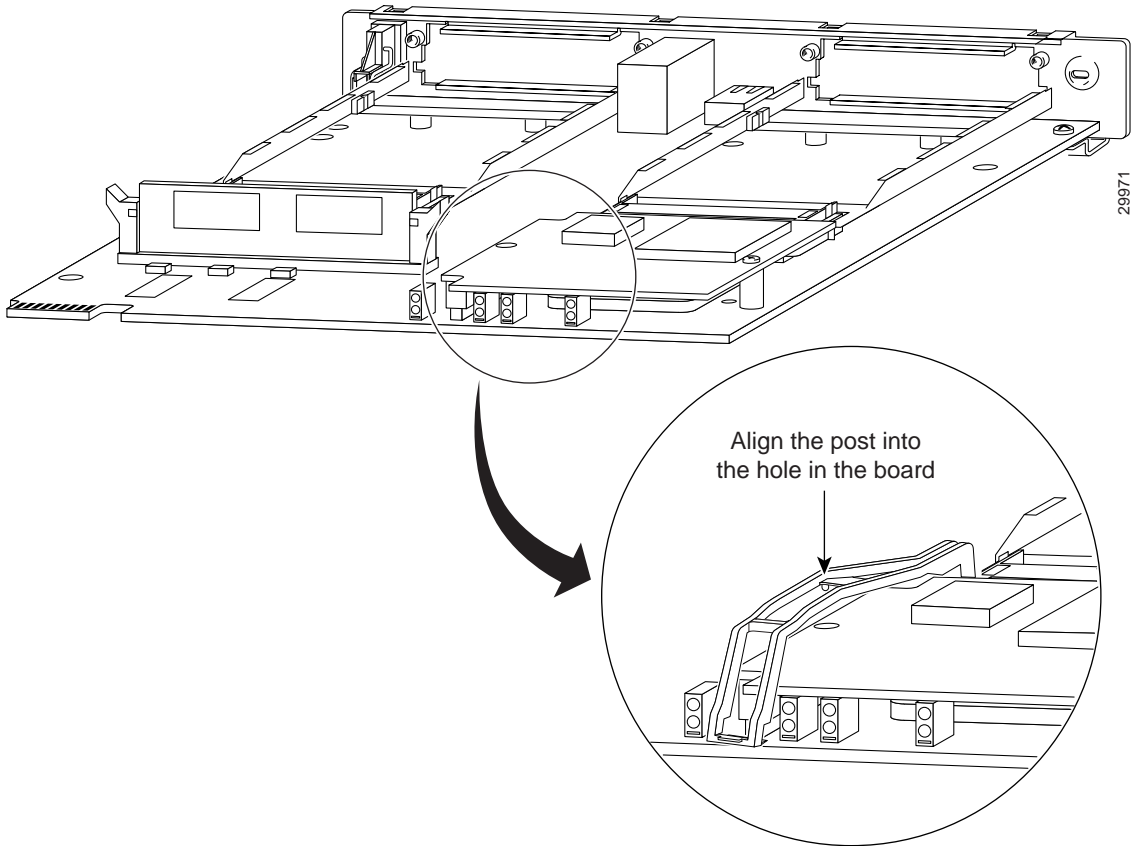
- Step 4** Using a remaining screw, secure the standoff to the VPN module.
- Step 5** To secure the VPN board connection in the socket, you must attach a retention clip.
- The retention clip for the 1720 router slides over the VPN module where it connects to the socket and clips to the side of the router motherboard. The horizontal tab slides underneath the WIC 0 socket, as shown in [Figure 6](#).

Figure 6 Retention Clip Location



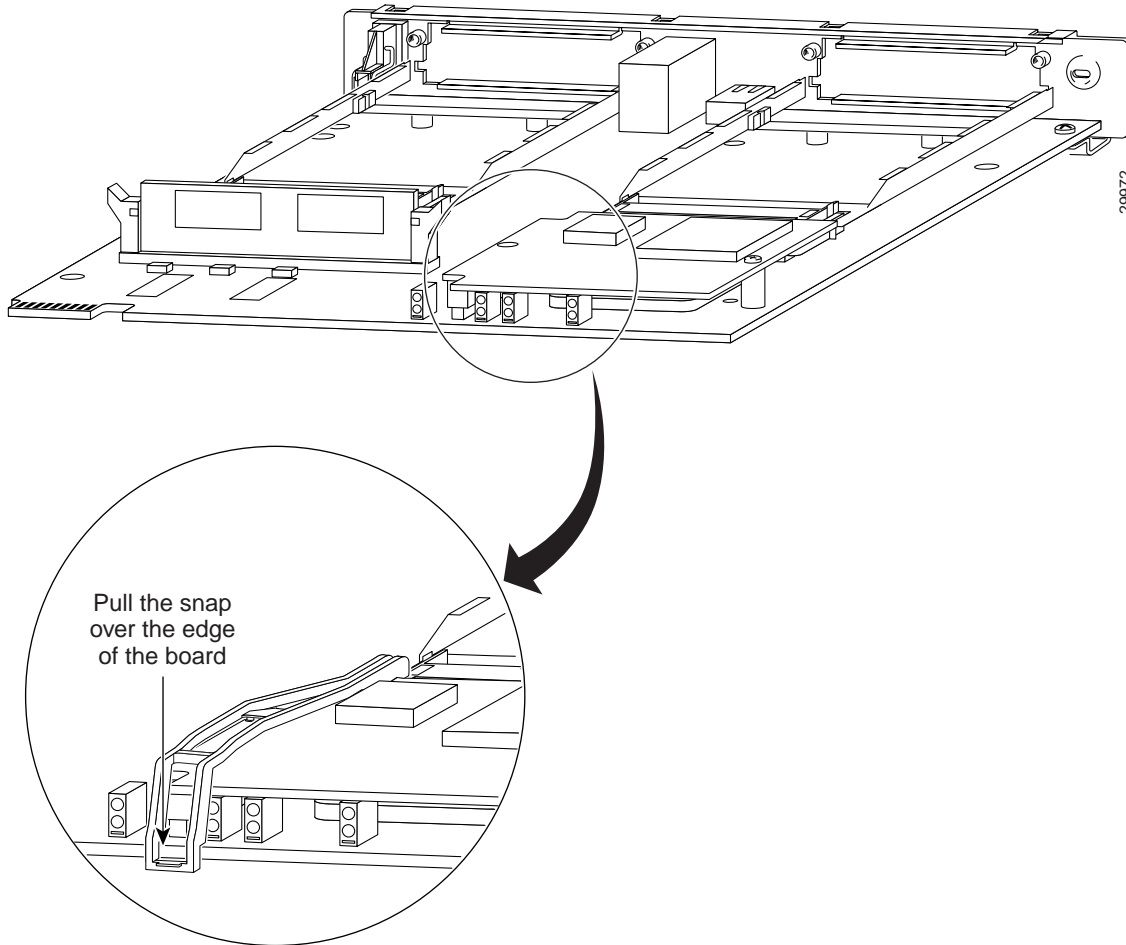
- Align the post in the middle of the clip with the hole in the center of the socket side of the VPN card as shown in [Figure 7](#).

Figure 7 *Aligning the Retention Clip Center Post*



- c. Attach the retention clip to the motherboard, as shown in [Figure 8](#).

Figure 8 Attaching the Retention Clip to the Motherboard



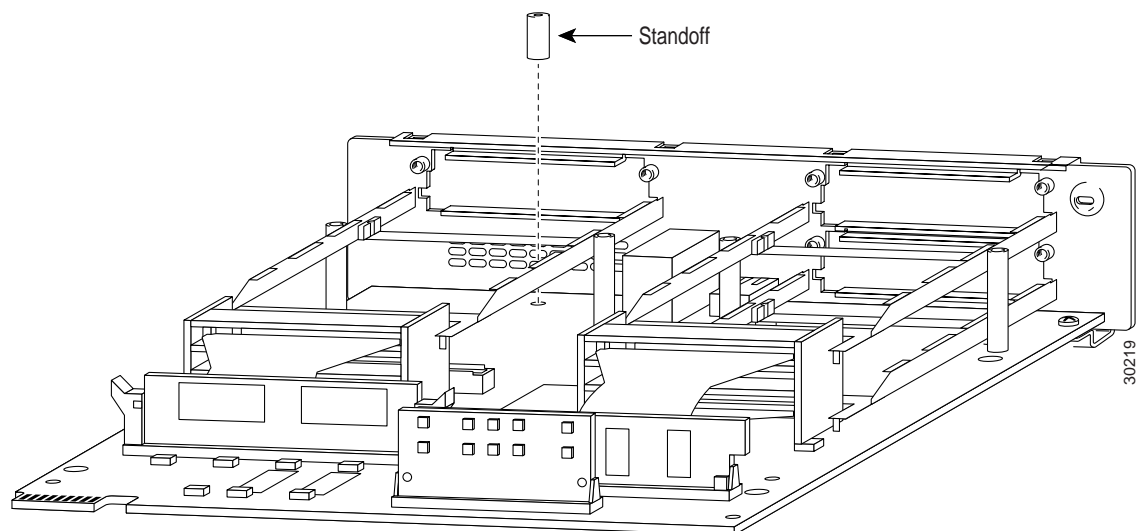
Installing the VPN Module in a Cisco 1750 Router

This section describes how to install the VPN module in a Cisco 1750 series router.

Follow these steps to install the VPN module:

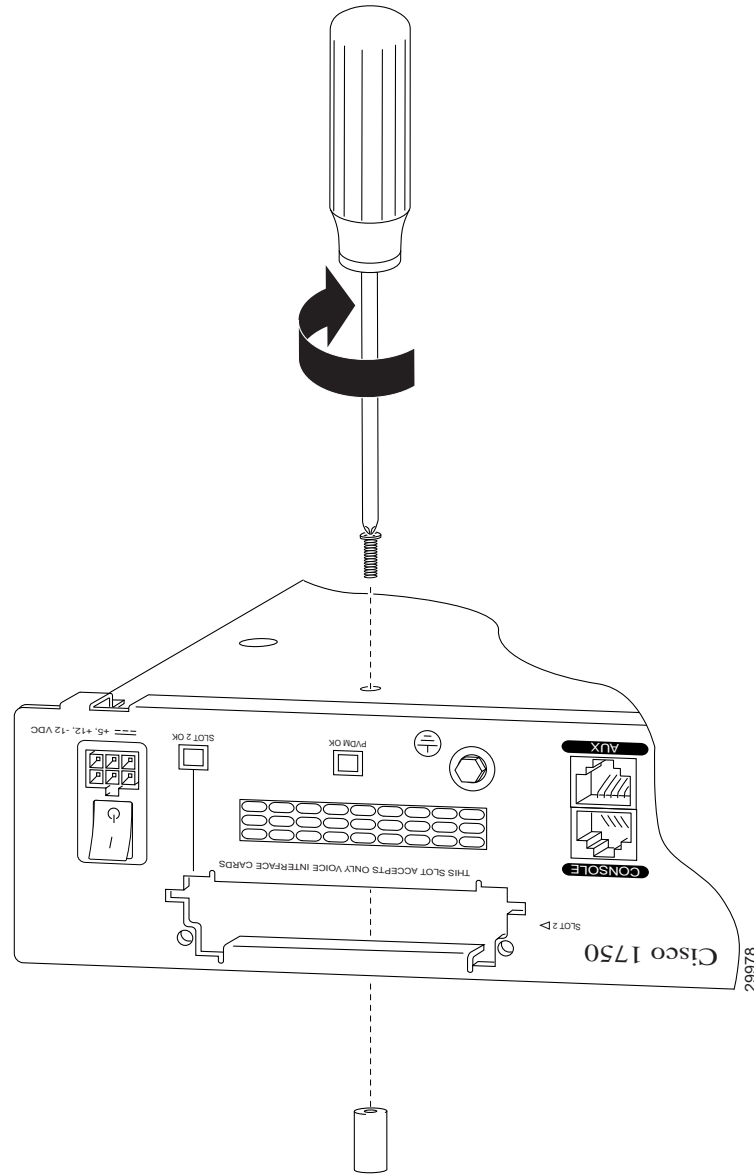
-
- Step 1** The VPN module plugs into a socket under slot 2. If there is a VIC in slot 2, you must remove it.
- Loosen the screws that secure the VIC to the backplane of the router.
 - Carefully slide the VIC out of the back of the router.
- Step 2** Using one of the screws provided, attach the standoff to the Cisco 1750 series router motherboard.
- First, locate the hole in the motherboard under slot 2, toward the back of the router, as shown in [Figure 9](#).

Figure 9 Cisco 1750 Series Router Standoff Location



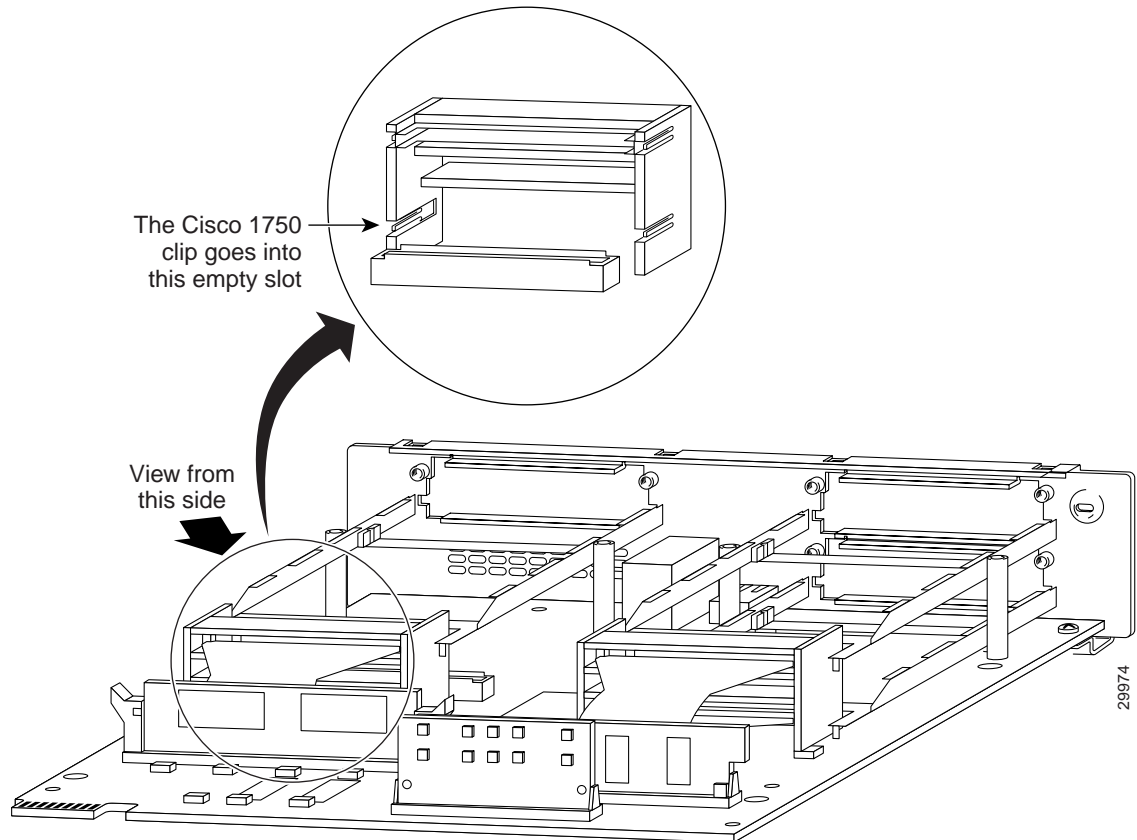
- Turn the motherboard upside down, and attach the standoff to it, using one of the screws provided, as shown in [Figure 10](#).

Figure 10 *Securing the Standoff to the Motherboard*



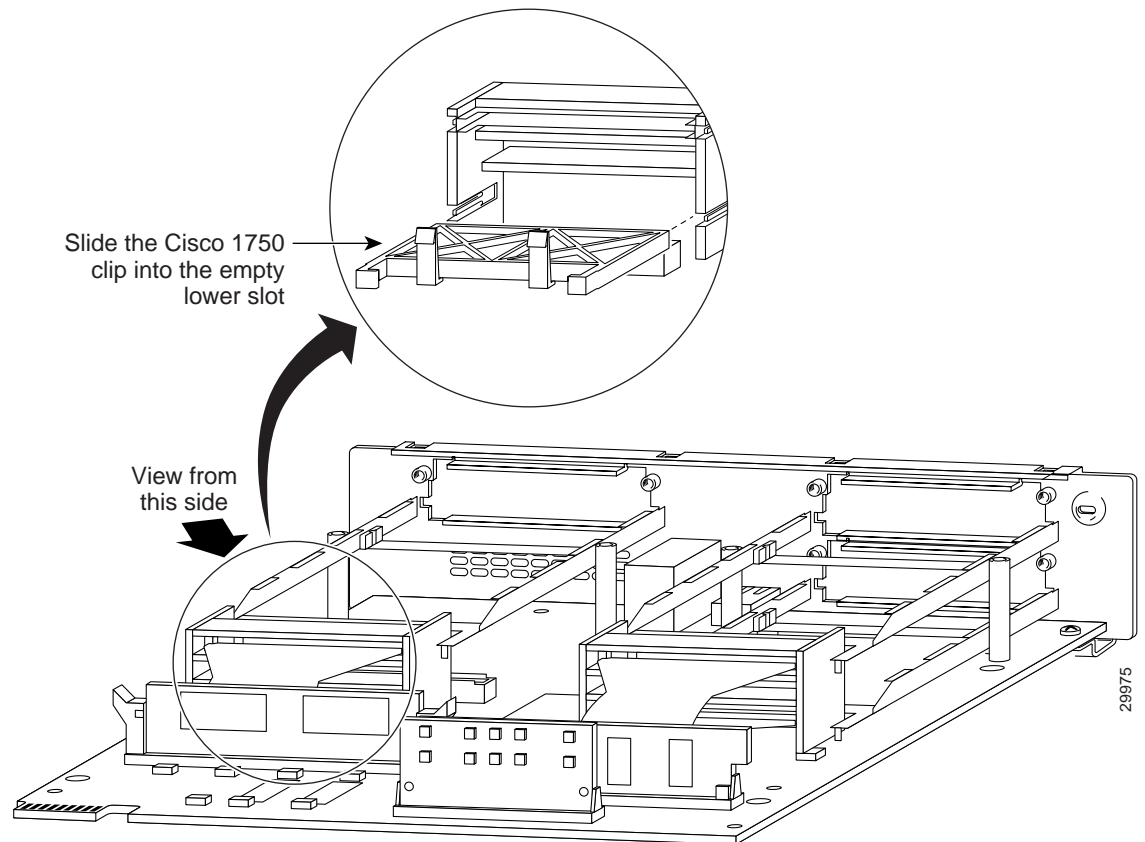
- Step 3** Install the 1750 VPN module retention clip.
- The 1750 retention clip slides into the empty slot in the plastic bracket that holds the VIC slot 2 socket, as shown in [Figure 11](#).

Figure 11 Cisco 1750 Retention Clip Location



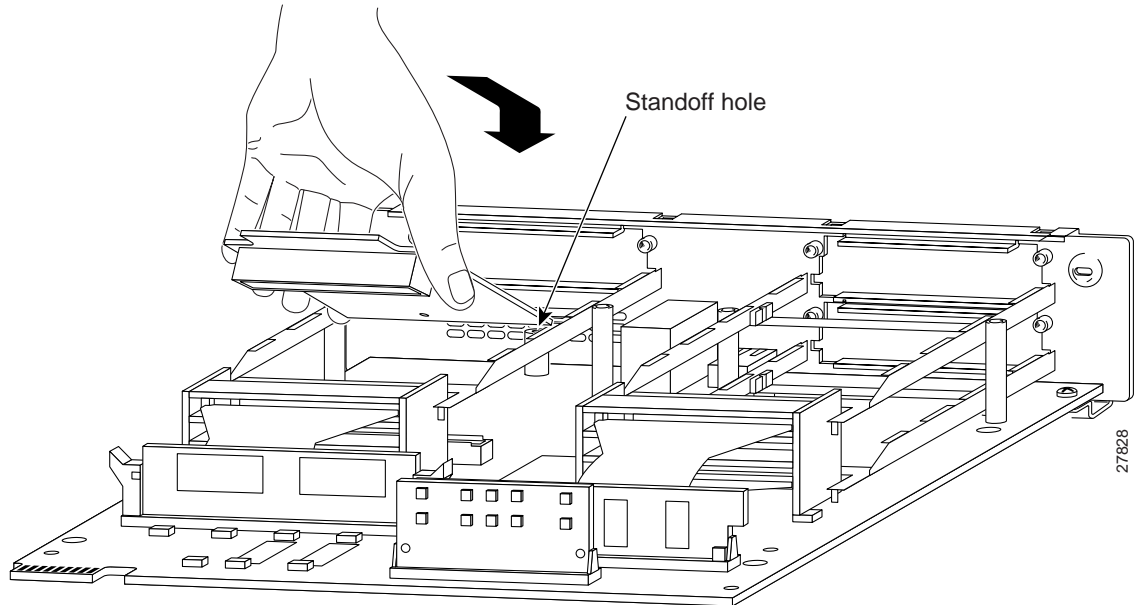
- b. Slide the clip into the empty slot with the tabs facing forward, as shown in [Figure 12](#). Place your thumbs on the horizontal tabs, and push the clip into the slot until it is fully seated.

Figure 12 *Installing the 1750 Retention Clip*



- Step 4** Locate the VPN module socket, and slide the VPN module underneath the VIC card guide, as shown in [Figure 13](#).

Figure 13 Cisco 1750 Motherboard—VPN Module Location



- Step 5** Pushing down with both thumbs as shown in [Figure 14](#), plug the VPN module into the socket. The vertical tabs on the retention clip should snap over the top of the VPN module, securing it into the socket, as shown in [Figure 15](#).

Figure 14 Plugging in the VPN Module

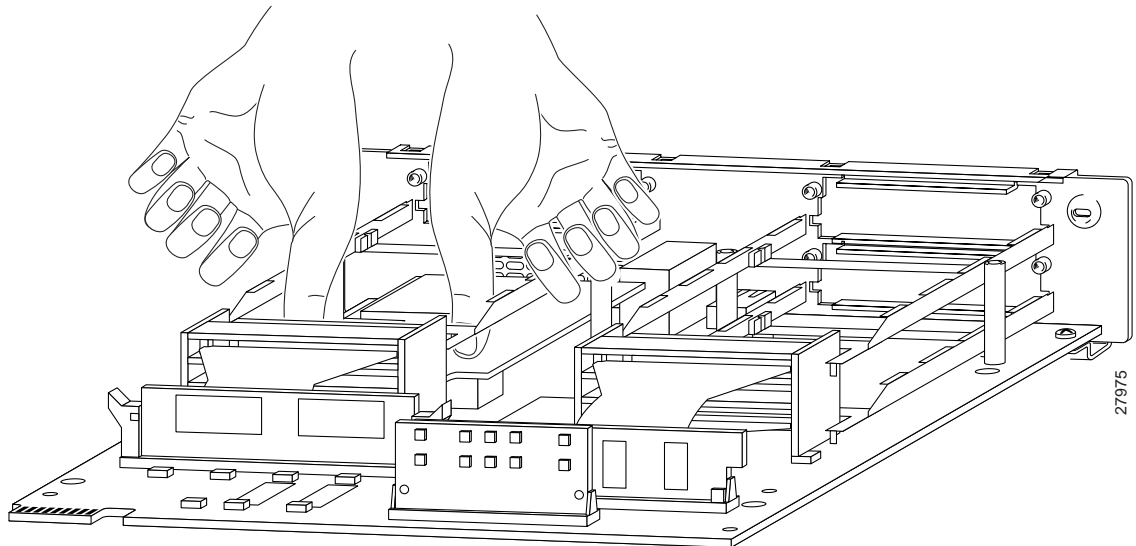
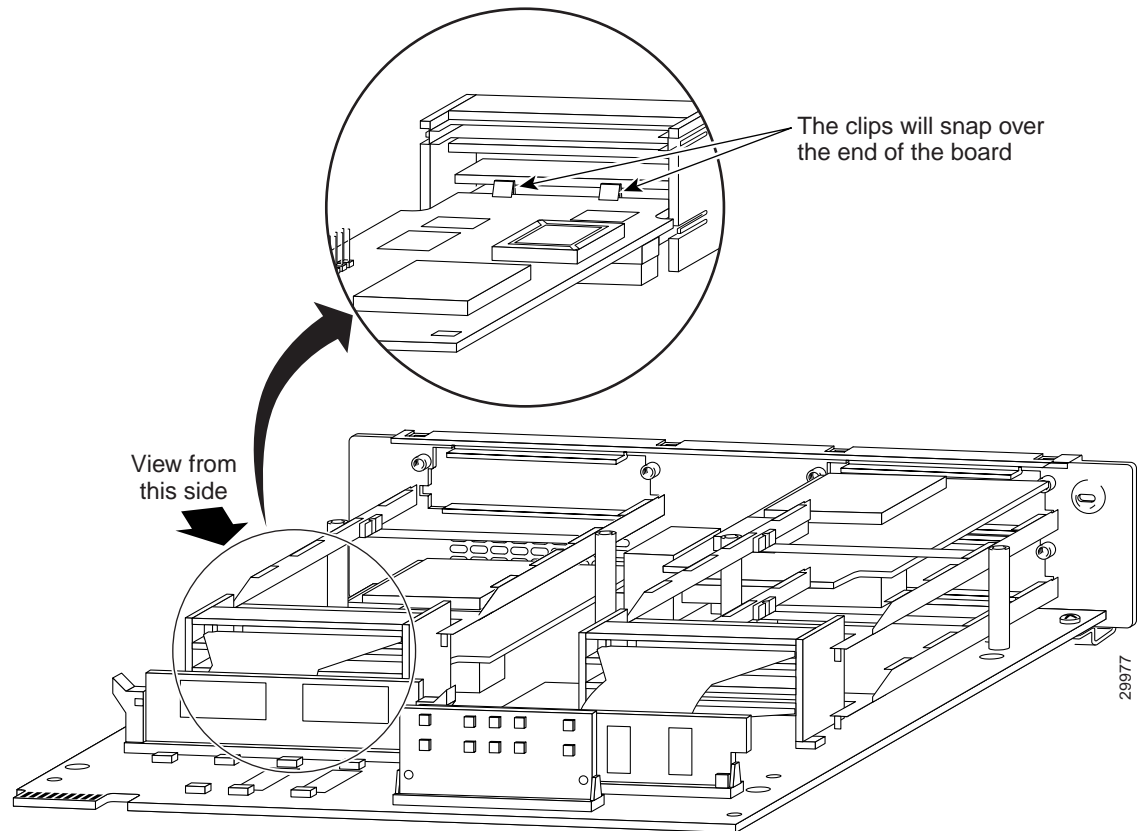


Figure 15 *Securing the VPN Module*

Step 6 Using a remaining screw, secure the standoff to the VPN module.

Step 7 If you removed a VIC from slot 2 in Step 2, reinsert it into slot 2.

- a. Hold the card by the edges on either side of the card front panel, and line up the card edges with the guides inside the card slot.
- b. Insert the card into the slot, and gently push it into the router until the front panel of the card is flush with the rear panel of the router.
- c. Tighten the screws.

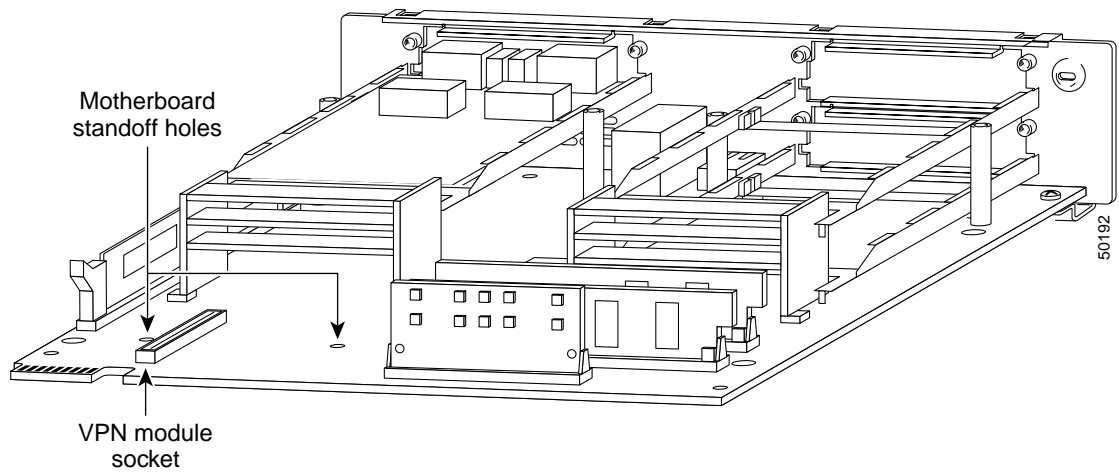
Step 8 Using the remaining screw, secure the standoff to the VPN module.

Installing the VPN Module in a Cisco 1751 Router

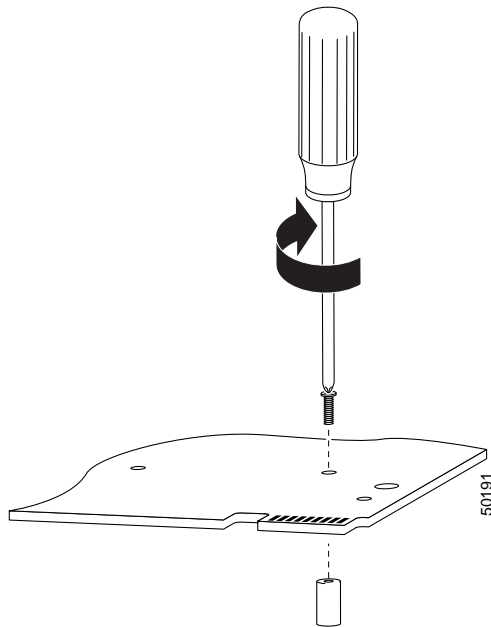
This section describes how to install the VPN module in a Cisco 1751 router.

Follow these steps to install the VPN module.

Step 1 The VPN module plugs into a socket, as shown in [Figure 16](#).

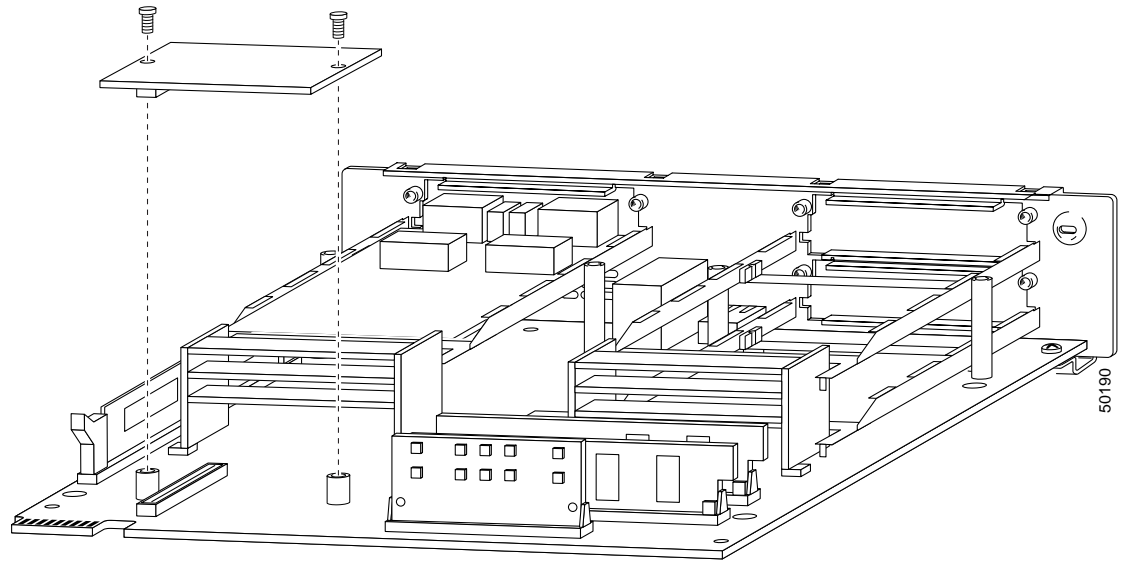
Figure 16 Cisco 1751 Module and Standoff Location

- Step 2** Using two of the screws provided, attach the standoffs to the 1751 motherboard.
- Locate the holes in the motherboard.
 - Turn the motherboard upside down and attach the standoffs to it using two of the screws provided, as shown in [Figure 17](#).

Figure 17 Securing the Standoff to the Motherboard

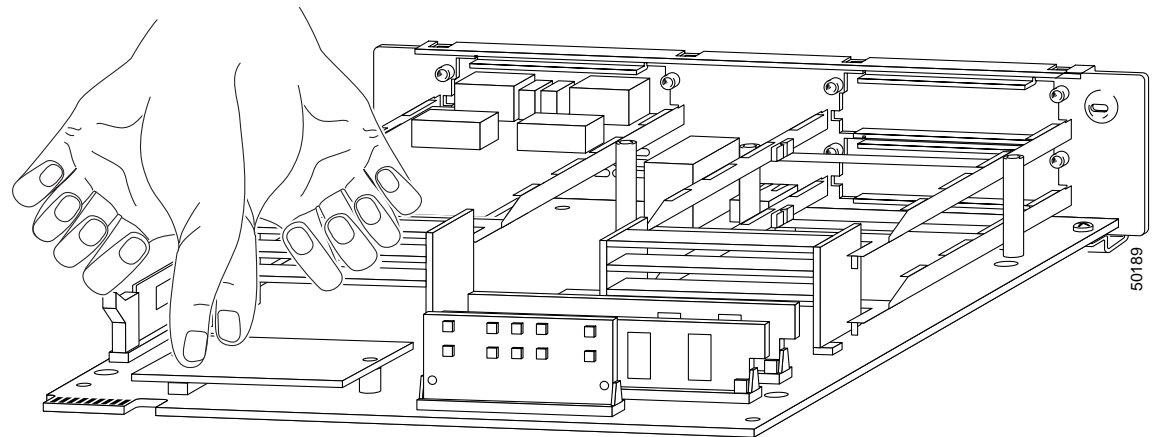
- Step 3** Locate the VPN module socket, and insert the VPN module, as shown in [Figure 18](#).

Figure 18 Cisco 1751 Motherboard—VPN Module Location



Step 4 Pushing down with both thumbs, as shown in [Figure 19](#), plug the VPN module into the socket.

Figure 19 Seating the VPN Module



Step 5 Using the two remaining screws, secure the standoffs to the VPN module.

Closing the Cisco 1700 Series Router Chassis

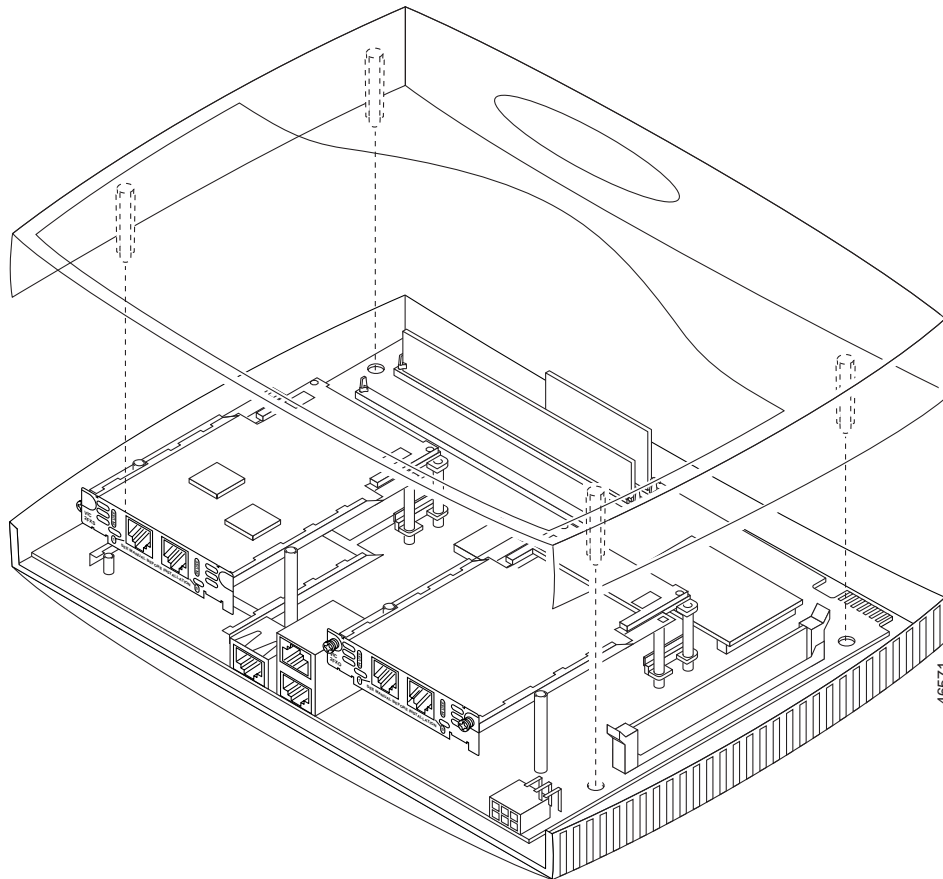
After installing the VPN module on the motherboard, follow these steps to close the chassis:

- Step 1** If you disconnected the fan from the motherboard as described in the [“Opening the Cisco 1700 Series Router Chassis”](#) section, reconnect the fan cable to the connector labeled FAN on the motherboard.
- Step 2** Locate the posts that protrude from the inside of the chassis cover and locate the corresponding openings on the chassis bottom.
- Step 3** Line up the posts with the corresponding openings, as shown in [Figure 20](#), and carefully slide the posts into the openings. Be careful not to damage the router motherboard with the posts.

**Caution**

Be careful not to damage the slot guides on the DIMM socket. If the guides are open, caution is necessary while installing the top of the chassis because improper installation can break the guides off of the DIMM socket. (The Cisco 1751 series router is shipped with a blank DIMM in the slot to keep the guides latched and out of the way.)

Figure 20 Closing the Cisco 1700 Series Router Chassis



- Step 4** Replace the screws that you removed when you opened the chassis.

Related Documents

This section describes additional documentation related to the VPN module or to your Cisco 1720 or Cisco 1750 series router.

For information about new Cisco IOS commands related to the VPN module, refer to the *Cisco IOS Release 12.1(1)XC* feature modules listed in the section below titled “[Feature Modules](#).”

For information about your Cisco 1720 or Cisco 1750 routers, see the “[Platform-Specific Documents](#)” section.

For information about Cisco IOS Release 12.1, see the “[Release-Specific Documents](#)” section.

Printed manuals and electronic documents are available, except for feature modules, which are available online on Cisco.com and on the Documentation CD-ROM.

Feature Modules

Feature modules describe new features supported by Release 12.1(1)XC and are updates to the Cisco IOS documentation set. A feature module consists of a brief overview of the feature, benefits, configuration tasks, and a command reference. As updates, the feature modules are available online only. Feature module information is incorporated in the next printing of the Cisco IOS documentation set.

To reach the Release 12.1(1)XC feature modules:

- From Cisco.com, click this path (under the heading **Service & Support**):
Technical Documents > Documentation Home Page > Cisco IOS Software Configuration > Cisco IOS Release 12.1 > New Feature Documentation > New Features in 12.1-Based Limited Lifetime Releases > New Features in Release 12.1X > New Features in Release 12.1(1)X
- From the Documentation CD-ROM, click on this path:
Cisco Product Documentation > Cisco IOS Software Configuration > Cisco IOS Release 12.1 > New Feature Documentation > New Features in 12.1-Based Limited Lifetime Releases > New Features in Release 12.1X > New Features in Release 12.1(1)X

Platform-Specific Documents

Cisco 1720 Series Router

These documents for the Cisco 1720 router are available on Cisco.com and on the Documentation CD-ROM:

- *Installing Your Cisco 1720 Router*
- *Cisco 1720 Router Hardware Installation Guide*
- *Cisco 1700 Router Software Configuration Guide*
- *Release Notes for the Cisco 1720 Router*
- *WAN Interface Cards Hardware Installation Guide*
- *Configuration Notes*
- *Regulatory Compliance and Safety Information*

Cisco 1750 Series Router

These documents for the Cisco 1750 series router are available on Cisco.com and on the Documentation CD-ROM:

- *Cisco 1750 Router Hardware Installation Guide*
- *Cisco 1750 Router Voice over IP Configuration Guide*
- *Voice-over-IP Quick Start Guide*
- *Release Notes for the Cisco 1750 Router*
- *Safety Information for Cisco 1600 and 1700 Routers*

Cisco 1751 Series Router

These documents for the Cisco 1751 series router are available on Cisco.com and the on Documentation CD-ROM:

- *Cisco 1751 Router Hardware Installation Guide*
- *Cisco 1751 Router Voice over IP Quick Start Guide*
- *Cisco 1751 Router Software Configuration Guide*
- *Configuring the Voice Interface Card for the Cisco 1751 Router*

Release-Specific Documents

The following documents are specific to Release 12.1. They are located on Cisco.com and on the Documentation CD-ROM:

- *Release Notes for Cisco IOS Release 12.1*
 - To reach the *Cross-Platform Release Notes for Cisco IOS Release 12.1* from Cisco.com, click on this path (under the heading **Service & Support**):
Technical Documents > Documentation Home Page > Cisco IOS Software Configuration > Cisco IOS Release 12.1 > Release Notes > Cross-Platform Release Notes
 - To reach the *Cross-Platform Release Notes for Cisco IOS Release 12.1* on the Documentation CD-ROM, click on this path:

Cisco Product Documentation > Cisco IOS Software Configuration > Cisco IOS Release 12.1 > Release Notes > Cross-Platform Release Notes

- Product bulletins, field notices, and other release-specific documents
To reach these documents from Cisco.com, click this path (under the heading **Service & Support**):
Technical Documents > Product Bulletins
- *Caveats for Cisco IOS Release 12.1 T*

The documents *Caveats for Cisco IOS Release 12.1* and *Caveats for Cisco IOS Release 12.1 T* contain caveats applicable to all platforms for all maintenance releases of Release 12.1.

- To reach the caveats documents from Cisco.com, click this path (under the heading **Service & Support**):

Technical Documents > Documentation Home Page > Cisco IOS Software Configuration > Cisco IOS Release 12.1 > Caveats

- To reach the caveats document on the Documentation CD-ROM, click this path:

Cisco Product Documentation > Cisco IOS Software Configuration > Cisco IOS Release 12.1 > Caveats

**Note**

If you have an account with Cisco.com, you can use Bug Navigator II to find caveats of any severity for any release. You can reach Bug Navigator II on Cisco.com at **Software Center > Cisco IOS Software > BUG TOOLKIT > Cisco Bug Navigator II**, or at <http://www.cisco.com/support/bugtools/bugtool.shtml>.

Obtaining Documentation

The following sections provide sources for obtaining documentation from Cisco Systems.

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>

Documentation CD-ROM

Cisco documentation and additional literature are available in a CD-ROM package, which ships with your product. The Documentation CD-ROM is updated monthly and may be more current than printed documentation. The CD-ROM package is available as a single unit or as an annual subscription.

Ordering Documentation

Cisco documentation is available in the following ways:

- Registered Cisco Direct Customers can order Cisco Product documentation from the Networking Products Marketplace:
http://www.cisco.com/cgi-bin/order/order_root.pl
- Registered Cisco.com users can order the Documentation CD-ROM through the online Subscription Store:
<http://www.cisco.com/go/subscription>
- Nonregistered Cisco.com users can order documentation through a local account representative by calling Cisco corporate headquarters (California, USA) at 408 526-7208 or, in North America, by calling 800 553-NETS(6387).

Documentation Feedback

If you are reading Cisco product documentation on the World Wide Web, you can submit technical comments electronically. Click **Feedback** in the toolbar and select **Documentation**. After you complete the form, click **Submit** to send it to Cisco.

You can e-mail your comments to bug-doc@cisco.com.

To submit your comments by mail, for your convenience many documents contain a response card behind the front cover. Otherwise, you can mail your comments to the following address:

Cisco Systems, Inc.
Document Resource Connection
170 West Tasman Drive
San Jose, CA 95134-9883
We appreciate your comments.

Obtaining Technical Assistance

Cisco provides Cisco.com as a starting point for all technical assistance. Customers and partners can obtain documentation, troubleshooting tips, and sample configurations from online tools. For Cisco.com registered users, additional troubleshooting tools are available from the TAC website.

Cisco.com

Cisco.com is the foundation of a suite of interactive, networked services that provides immediate, open access to Cisco information and resources at anytime, from anywhere in the world. This highly integrated Internet application is a powerful, easy-to-use tool for doing business with Cisco.

Cisco.com provides a broad range of features and services to help customers and partners streamline business processes and improve productivity. Through Cisco.com, you can find information about Cisco and our networking solutions, services, and programs. In addition, you can resolve technical issues with online technical support, download and test software packages, and order Cisco learning materials and merchandise. Valuable online skill assessment, training, and certification programs are also available.

Customers and partners can self-register on Cisco.com to obtain additional personalized information and services. Registered users can order products, check on the status of an order, access technical support, and view benefits specific to their relationships with Cisco.

To access Cisco.com, go to the following website:

<http://www.cisco.com>

Technical Assistance Center

The Cisco TAC website is available to all customers who need technical assistance with a Cisco product or technology that is under warranty or covered by a maintenance contract.

Contacting TAC by Using the Cisco TAC Website

If you have a priority level 3 (P3) or priority level 4 (P4) problem, contact TAC by going to the TAC website:

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

P3 and P4 level problems are defined as follows:

- P3—Your network performance is degraded. Network functionality is noticeably impaired, but most business operations continue.
- P4—You need information or assistance on Cisco product capabilities, product installation, or basic product configuration.

In each of the above cases, use the Cisco TAC website to quickly find answers to your questions.

To register for Cisco.com, go to the following website:

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

If you cannot resolve your technical issue by using the TAC online resources, Cisco.com registered users can open a case online by using the TAC Case Open tool at the following website:

<http://www.cisco.com/tac/caseopen>

Contacting TAC by Telephone

If you have a priority level 1 (P1) or priority level 2 (P2) problem, contact TAC by telephone and immediately open a case. To obtain a directory of toll-free numbers for your country, go to the following website:

<http://www.cisco.com/warp/public/687/Directory/DirTAC.shtml>

P1 and P2 level problems are defined as follows:

- P1—Your production network is down, causing a critical impact to business operations if service is not restored quickly. No workaround is available.
- P2—Your production network is severely degraded, affecting significant aspects of your business operations. No workaround is available.

Use this document in conjunction with your router installation and configuration guide, the *Regulatory Compliance and Safety Information* document for your router, and the Cisco IOS configuration guides and command references.

AccessPath, AtmDirector, Browse with Me, CCDA, CCDE, CCDP, CCIE, CCNA, CCNP, CCSI, CD-PAC, *CiscoLink*, the Cisco NetWorks logo, the Cisco *Powered Network* logo, Cisco Systems Networking Academy, the Cisco Systems Networking Academy logo, Fast Step, Follow Me Browsing, FormShare, FrameShare, GigaStack, IGX, Internet Quotient, IP/VC, iQ Breakthrough, iQ Expertise, iQ FastTrack, the iQ Logo, iQ Net Readiness Scorecard, MGX, the Networkers logo, *Packet*, PIX, RateMUX, ScriptBuilder, ScriptShare, SlideCast, SMARTnet, TransPath, Unity, Voice LAN, Wavelength Router, and WebViewer are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn, Discover All That's Possible, and Empowering the Internet Generation, are service marks of Cisco Systems, Inc.; and Aironet, ASIST, BPX, Catalyst, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, the Cisco IOS logo, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Enterprise/Solver, EtherChannel, EtherSwitch, FastHub, FastSwitch, IOS, IP/TV, LightStream, MICA, Network Registrar, Post-Routing, Pre-Routing, Registrar, StrataView Plus, Stratm, SwitchProbe, TeleRouter, and VCO are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the U.S. and certain other countries.

All other brands, names, or trademarks mentioned in this document or Web site are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0103R)

Installing the Virtual Private Network Module in a Cisco 1700 Series Router

Copyright © 2000—2001, Cisco Systems, Inc.

All rights reserved. Printed in USA.