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Getting Started Guide

Catalyst 3750 Switch Getting Started Guide

INCLUDING LICENSE AND WARRANTY

1 About this Guide

This guide provides instructions on how to use Express Setup to initially configure your Catalyst switch. Also covered are switch management options, basic rack-mounting procedures, stacking procedures, port and module connection procedures, power connection procedures, and troubleshooting help.

For additional installation and configuration information for Catalyst 3750 switches, see the Catalyst 3750 documentation on Cisco.com. For system requirements, important notes, limitations, open and resolved bugs, and last-minute documentation updates, the release notes, also on Cisco.com.

When using the online publications, refer to the documents that match the Cisco IOS software version running on the switch. The software version is on the Cisco IOS label on the switch rear panel.

You can order printed copies of the manuals from the Cisco.com sites and from the telephone numbers listed in the "Obtaining Documentation" section.

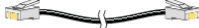
For translations of the warnings that appear in this publication, see the *Regulatory Compliance and Safety Information for the Catalyst 3750 Switch* that accompanies this guide.

2 Taking Out What You Need

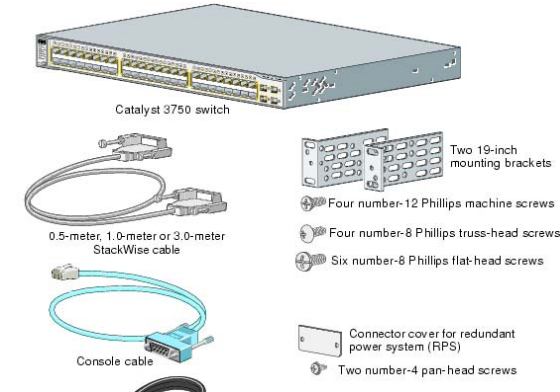
- Follow these steps:
1. Unpack and remove the switch and the accessory kit from the shipping box.
 2. Return the packing material to the shipping container, and save it for future use.
 3. Verify that you have received the items shown on page 3. If any item is missing or damaged, contact your Cisco representative or reseller for instructions. Some switch models might include additional items that are not shown on page

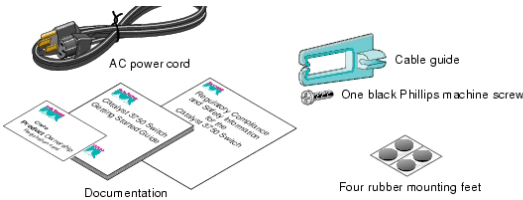
 **Note** If you do not specify the length of the StackWise cable, the 0.5-meter cable is supplied.

- Equipment That You Supply to Run Express Setup
- You need to supply this equipment to run Express Setup:
- PC
 - Ethernet (Category 5) straight-through cable (as shown)



Shipping Box Contents

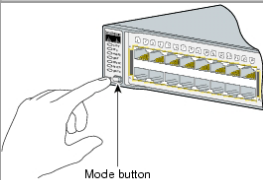
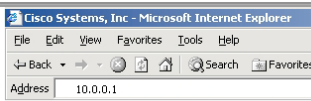
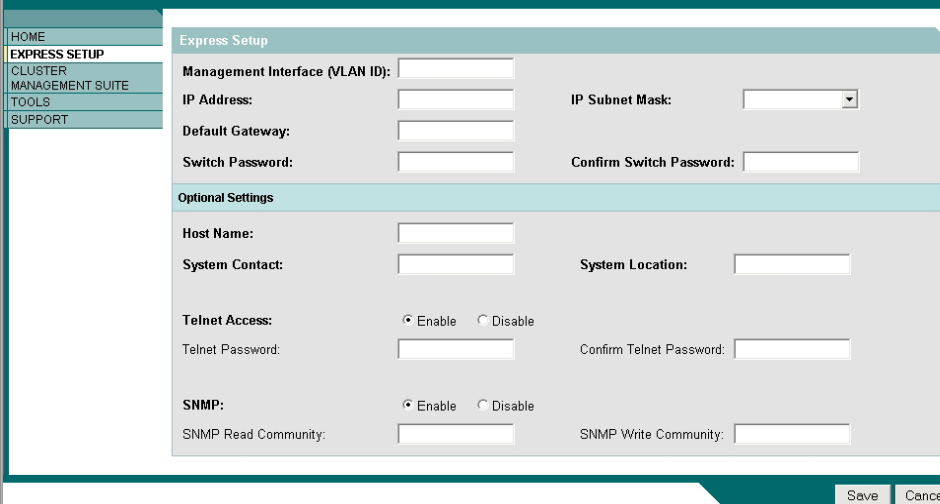




3 Running Express Setup

When you first set up the switch, you should use Express Setup to enter the initial IP information. This enables the switch to connect to local routers and the Internet. You can then access the switch through the IP address for further configuration.

To run Express Setup:

Step 1	Verify that no devices are connected to the switch, because during Express Setup, the switch acts as a DHCP server. If your PC has a static IP address, before you begin you should change your PC settings to temporarily use DHCP.	
Step 2	Connect the AC power cord to the switch and to a grounded AC outlet. The power-on self-test (POST) begins. During POST, the LEDs blink while a series of tests verify that the switch functions properly.	
Step 3	Wait for the switch to complete POST. It might take several minutes for the switch to complete POST.	
Step 4	Verify that POST has completed by confirming that the SYST LED remains green. If the switch fails POST, the SYST LED turns amber. POST errors are usually fatal. Call Cisco Systems immediately if your switch fails POST.	
Step 5	Press and hold the Mode button for 3 seconds. When all of the LEDs above the Mode button turn green, release the Mode button. If the LEDs above the Mode button begin to blink after you press the button, release it. Blinking LEDs mean that the switch has already been configured and cannot go into Express Setup mode. For more information, see the "Resetting the Switch" section .	 Mode button
Step 6	Verify that the switch is in Express Setup mode by confirming that all LEDs above the Mode button are green. (The RPS LED remains off on some switch models.)	
Step 7	Connect a straight-through Category 5 Ethernet cable (not provided) to any 10/100 or 10/100/1000 Ethernet port on the switch front panel and to the Ethernet port on the PC.	 DHCP-enabled PC
Step 8	Verify that the LEDs on both Ethernet ports are green.	
Step 9	Wait 30 seconds.	
Step 10	Launch a web browser on your PC. Enter the IP address 10.0.0.1 in the web browser, and press Enter.	
Step 11	The Express Setup page appears. If it does not appear, see the "In Case of Difficulty" section for help.	
Step 12	Enter this information in the Network Settings fields: - In the Management Interface (VLAN ID) field, the default is 1. Enter a new VLAN ID only if you want to change the management interface through which you manage the switch and to which you assign IP information. The VLAN ID range is 1 to 1001. - In the IP Address field, enter the IP address of the switch. In the IP Subnet Mask field, click the drop-down arrow, and select an IP Subnet Mask. - In the Default Gateway field, enter the IP address for the default gateway (router). - Enter your password in the Switch Password field. The password can be from 1 to 25 alphanumeric characters, can start with a number, is case sensitive, allows embedded spaces, but does not allow spaces at the beginning or end. In the Confirm Switch Password field, enter your password again.	

Step 13	(Optional) You can enter the Optional Settings information now or enter it later by using the device manager interface: - In the Host Name field, enter a name for the switch. The host name is limited to 31 characters; embedded spaces are not allowed. - In the System Contact field, enter the name of the person responsible for the switch. In the System Location field, enter the wiring closet, floor, or building where the switch is located. - In the Telnet Access field, click Enable if you are going to use Telnet to manage the switch by using the command-line interface (CLI). If you enable Telnet access, you must enter a Telnet password. - In the Telnet Password field, enter a password. The Telnet password can be from 1 to 25 alphanumeric characters, is case sensitive, allows embedded spaces, but does not allow spaces at the beginning or end. In the Confirm Telnet Password field, enter the Telnet password again. - In the SNMP field, click Enable to enable Simple Network Management Protocol (SNMP). Enable SNMP only if you plan to manage switches by using CiscoWorks2000 or another SNMP-based network-manage system. If you enable SNMP, you must enter a community string in the SNMP Read Community field, the SNMP Write Community field, or both. SNMP community strings authenticate access to MIB objects. Embedded spaces are not allowed in SNMP community strings. When you set the SNMP read community, you can access SNMP information, but cannot modify it. When you set the SNMP write community, you can access and modify SNMP information.
Step 14	Click Submit to save your settings, or click Cancel to clear your settings. When you click Submit, the switch is configured and exits Express Setup mode. The PC displays a warning message and then attempts to connect with the new switch IP address. If you configured the switch with an IP address that is in a different subnet from the PC, connectivity between the PC and the switch is lost.
Step 15	Disconnect the switch from the PC, and install the switch in your production network. See the "Managing the Switch" section for information about configuring and managing the switch. If you need to rerun Express Setup, see the "Resetting the Switch" section.

Refreshing the PC IP Address

After you complete Express Setup, you should refresh the PC IP address.

For a dynamically assigned IP address, disconnect the PC from the switch, and reconnect it to the network. The network DHCP server will assign a new IP address to the PC.

For a statically assigned IP address, change it to the previously configured IP address.

4 Managing the Switch

After completing Express Setup and installing the switch in your network, use the Cluster Management Suite (CMS) or other management options described in this section for further configuration.

Downloading Cisco Network Assistant

Cisco Network Assistant is a software program that you download from Cisco.com and run on your PC. It offers advanced options for configuring and monitoring multiple devices, including switches, switch clusters, switch stacks, routers, and access point Network Assistant is free—there is no charge to download, install, or use it.

Follow these steps:

- Go to this Web address: <http://www.cisco.com/go/NetworkAssistant>.
- Find the Network Assistant installer.
- Download the Network Assistant installer, and run it. (You can run it directly from the Web if your browser offers this choice.)
- When you run the installer, follow the displayed instructions. In the final panel, click Finish to complete the Network Assistant installation.

Refer to the Network Assistant online help and the getting started guide for more information.

CMS

CMS is a GUI that can be launched from anywhere in your network through a web browser. CMS is already bundled in the switch. The CMS plug-in is required to run CMS through your web browser. The plug-in is supported both in Windows environments and on Solaris platforms.

You can download the latest CMS plug-in from these URLs:

- Windows
http://www.cisco.com/cgi-bin/Support/ClusterMgmtSuite/cms_plugin_redirect.cgi?platform=windows&version=1.2
- Solaris
http://www.cisco.com/cgi-bin/Support/ClusterMgmtSuite/cms_plugin_redirect.cgi?platform=solaris&version=1.2

From CMS, you can fully configure and monitor a switch or switch clusters, display network topologies to gather link information, and display switch images to modify switch- and port-level settings. For more information, see the "Getting Started with CMS" chapter of the switch software configuration guide on Cisco.com and the online help for this application.

Command-Line Interface

You can enter Cisco IOS commands and parameters through the CLI. Access the CLI either by connecting your PC directly to the switch console port or through a Telnet session from a remote PC or workstation.

Follow these steps:

- Connect the supplied RJ-45-to-DB-9 adapter cable to the standard 9-pin serial port on the PC. Connect the other end of the cable to the console port on the switch.
- Start a terminal-emulation program on the PC.
- Configure the PC terminal emulation software for 9600 baud, 8 data bits, no parity, 1 stop bit, and no flow control.
- Use the CLI to enter commands to configure the switch. See the software configuration guide and the command reference for more information.

Other Management Options

You can use SNMP management applications such as CiscoWorks Small Network Management Solution (SNMS) and HP OpenView to configure and manage the switch. You also can manage it from an SNMP-compatible workstation that is running platforms such as HP OpenView or SunNet Manager.

The Cisco IE2100 Series Configuration Registrar is a network management device that works with embedded CNS agents in the switch software. You can use IE2100 to automate initial configurations and configuration updates on the switch.

See the ["Accessing Help Online" section](#) for a list of supporting documentation.

5 Planning Switch Stacks

Before connecting the Catalyst 3750 switches in a stack, observe these planning considerations:

- The size of the switch. See the "Technical Specifications" appendix of the *Catalyst 3750 Switch Hardware Installation Guide* for the switch dimensions. Stacking together switches of the same size makes it easier to cable the switches.
- Length of cable. Depending on the configuration of your switch stack, you might need different sized cables. If you don't specify the length of the StackWise cable, the 0.5-meter cable is supplied. If you require the 1-meter cable or 3-meter cable, you can order it from your Cisco supplier. For cable numbers, see the *Catalyst 3750 Switch Hardware Installation Guide*.



Note For concepts and procedures to manage switch stacks, refer to the switch software configuration guide.

Powering Considerations

Consider the following guidelines before you power the switches in a stack:

- The sequence in which the switches are initially powered on might affect the switch that becomes the stack master.
- If you have no preference for which switch becomes the stack master, power on all the switches in the stack within a 20-second timeframe. These switches participate in the stack master election. Switches powered on after the 20-second timeframe do not participate in the election.
- If you want a particular switch to become the stack master, power on that switch first. This switch becomes the stack master and remains the stack master until a master re-election is required. After 20 seconds, power on the remaining switches in the stack.
- Power off a switch before you add it to or remove it from an existing switch stack.



Note Stack master elections occur over a 10-second timeframe on switches running releases earlier than Cisco IOS Release 12.2(20)SE3.

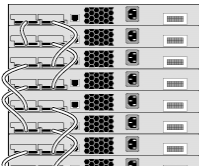
For more information on stack master elections, see the "Managing Switch Stacks" chapter in the switch software configuration guide.

Cabling Considerations

These illustrations show the recommended Catalyst 3750 switch stack configurations with redundant StackWise cabling connections for optimized stack bandwidth. For more configuration examples, see the *Catalyst 3750 Switch Hardware Installation Guide*.

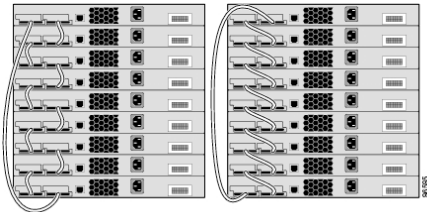
Vertical Stacking

In this example, the stack uses the 0.5-meter StackWise cable to make redundant connections.



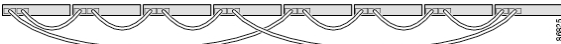


In this example, the stacks use both 0.5- and 3-meter StackWise cables to make redundant connections.

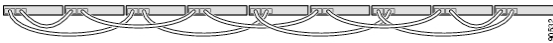


Side-By-Side Stacking

In this example, eight switches are stacked side-by-side with redundant connections by using 0.5- and 3-meter StackWise cables.



In this example, nine switches are stacked side-by-side with redundant connections by using 0.5- and 3-meter StackWise cables.



 **Warning**

To prevent bodily injury when mounting or servicing this unit in a rack, you must take special precautions to ensure that the system remains stable. The following guidelines are provided to ensure your safety:

- This unit should be mounted at the bottom of the rack if it is the only unit in the rack.
- When mounting this unit in a partially filled rack, load the rack from the bottom to the top with the heaviest component at the bottom of the rack.
- If the rack is provided with stabilizing devices, install the stabilizers before mounting or servicing the unit in the rack. Statement 1006

6 Rack-Mounting

This section covers basic 19-inch rack-mounting and switch port connections. As an example, all the illustrations show the Catalyst 3750G-48TS switch. You can install and connect other Catalyst 3750 switches as shown in these illustrations. For alternate mounting procedures, such as installing the switch in a 24-inch rack or on a wall, and for additional cabling information, see the *Catalyst 3750 Switch Hardware Installation Guide* on Cisco.com.

Equipment That You Supply

You need to supply a number-2 Phillips screwdriver to rack-mount the switch.

Before You Begin

When determining where to install the switch, verify that these guidelines are met:

- Airflow around the switch and through the vents is unrestricted.
- Temperature around the switch does not exceed 113°F (45°C).
- Humidity around the switch does not exceed 85 percent.
- Altitude at the installation site is not greater than 10,000 feet.
- Clearance to the switch front and rear panels meets these conditions:
 - Front-panel LEDs can be easily read.
 - Access to ports is sufficient for unrestricted cabling.
 - AC power cord can reach from the AC power outlet to the connector on the switch rear panel.
 - Access to the rear of the rack is sufficient for connecting StackWise cables to stacked switches.
- Cabling is away from sources of electrical noise, such as radios, power lines, and fluorescent lighting fixtures.
- For 10/100 ports and 10/100/1000 ports, the cable length from a switch to an attached device cannot exceed 328 feet (100 meters).
- For cable lengths for small form-factor pluggable (SFP) modules, see the documentation that shipped with the module.
- For cable lengths for XENPAK modules, see the documentation that shipped with the module.

Installation Warning Statements

This section includes the basic installation warning statements. Translations of these warning statements appear in the *Regulatory Compliance and Safety Information for the Catalyst 3750 Switch* document that shipped with the switch.

 **Warning** Only trained and qualified personnel should be allowed to install, replace, or service this equipment. Statement 148

 **Warning** To prevent the switch from overheating, do not operate it in an area that exceeds the maximum recommended ambient temperature of 113°F (45°C). To prevent airflow restriction, allow at least 3 inches (7.6 cm) of clearance around the ventilation openings. Statement 178

 **Warning** Installation of the equipment must comply with local and national electrical codes. Statement 1074

 **Warning**

To prevent bodily injury when mounting or servicing this unit in a rack, you must take special precautions to ensure that the system remains stable. The following guidelines are provided to ensure your safety:

- This unit should be mounted at the bottom of the rack if it is the only unit in the rack.
- When mounting this unit in a partially filled rack, load the rack from the bottom to the top with the heaviest component at the bottom of the rack.
- If the rack is provided with stabilizing devices, install the stabilizers before mounting or servicing the unit in the rack. Statement 1006

 **Warning** This equipment is intended to be grounded. Ensure that the host is connected to earth ground during normal use. Statement 39

 **Warning** If a redundant power system (RPS) is not connected to the switch, install an RPS connector cover on the back of the switch. Statement 265

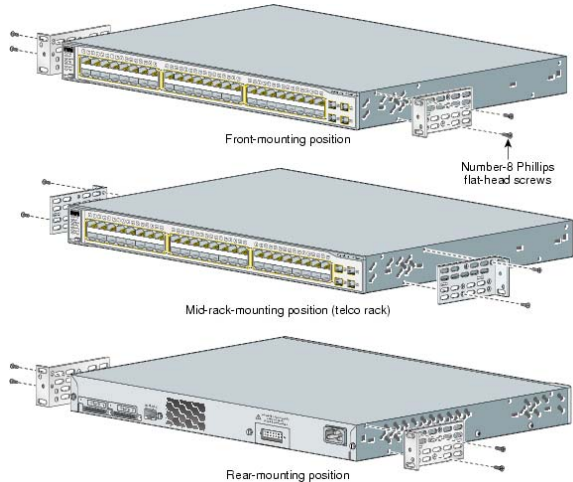
 **Warning** Class 1 laser product. Statement 1008

 **Warning** For connections outside the building where the equipment is installed, the following ports must be connected through an approved network termination unit with integral circuit protection: 10/100/1000 Ethernet. Statement 1044

 **Warning** Voltages that present a shock hazard may exist on Power over Ethernet (PoE) circuits if interconnections are made using uninsulated exposed metal contacts, conductors, or terminals. Avoid using such interconnection methods, unless exposed metal parts are located within a restricted access location and users and service people who are authorized within the restricted access location are made aware of the hazard. A restricted access area can be accessed only through the use of a special tool, lock and key or other means of security. Statement 1072

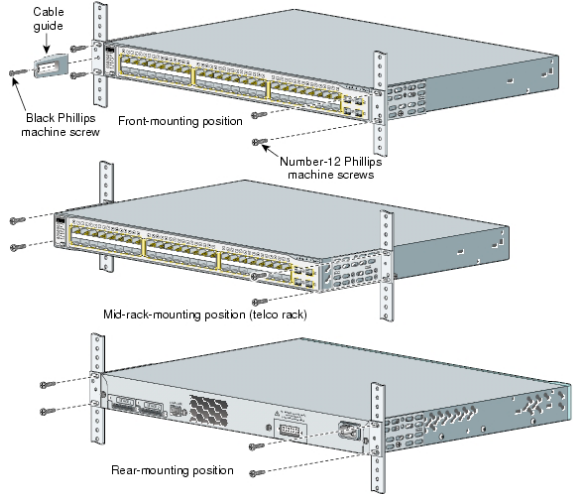
Attaching the Brackets

Use four Phillips flat-head screws to attach the long side of the brackets to Catalyst 3750 switches in one of three mounting positions.



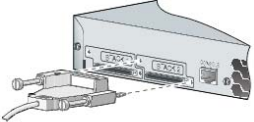
Rack-Mount the Switch

Use the black Phillips machine screw to attach the cable guide to the left or right bracket. Use the four number-12 Phillips machine screws to attach the brackets to the rack.



Connect the StackWise Cables

Follow these steps to connect the StackWise cable to the StackWise ports:

Step 1	Remove the dust covers from the StackWise cables and StackWise ports, and store them for future use.	
Step 2	Insert one end of the StackWise cable into the StackWise port on the back of the switch.	
Step 3	Use the window in the StackWise cable to align the connector correctly. Secure the screws tightly.	
Step 4	Insert the other end of the cable into the connector of the other switch, and secure the screws tightly.	

Caution Removing and installing the StackWise cable can shorten its useful life. Do not remove and insert the cable more often than is absolutely necessary.

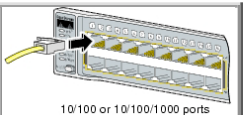
Note Always use a Cisco-approved StackWise cable to connect the switches.

Connect to the Switch Ports

This section describes how to connect to the fixed switch ports, the SFP module ports, and the XENPAK module ports.

Connect to 10/100 and 10/100/1000 Ports

Follow these steps:

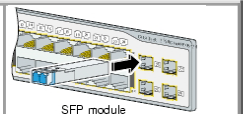
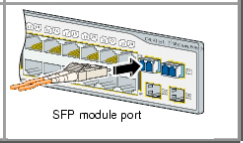
Step 1	When you connect to servers, workstations, IP phones, wireless access points, and routers, insert a straight-through, twisted four-pair, Category 5 cable in a switch 10/100 or 10/100/1000 port. Use a crossover, twisted four-pair, Category 5 cable when you connect to other switches, hubs, or repeaters.	
Step 2	Insert the other cable end into an RJ-45 connector on the other device.	

The fixed ports on the Catalyst 3750 Power over Ethernet (PoE) switches provide PoE support for devices compliant with IEEE 802.3af and also provide Cisco pre-standard PoE support for Cisco IP Phones and Cisco Aironet Access Points. Each of the Catalyst 3750-24PS switch 10/100 ports or the Catalyst 3750G-24PS switch 10/100/1000 ports can deliver up to 15.4 W of PoE. On the Catalyst 3750-48PS or 3750G-48PS switches, any 24 of the 48 10/100 or 10/100/1000 ports can deliver 15.4 W of PoE, or any combination of the ports can deliver an average of 7.7 W of PoE at the same time, up to a maximum switch power output of 370 W. By default, a Catalyst 3750 switch PoE port automatically provides power when a valid powered device is connected to it. For information about configuring and monitoring PoE ports, see the switch software configuration guide. For information about troubleshooting PoE problems, see the *Catalyst 3750 Switch Hardware Installation Guide* on Cisco.com.

Note The automatic medium-dependent interface crossover (Auto-MDIX) feature is enabled by default on switches running Cisco IOS Release 12.2(18)SE or later. When the Auto-MDIX feature is enabled, the switch detects the required cable type for copper Ethernet connections and configures the interfaces accordingly. Therefore, you can use either a crossover or a straight-through cable for connections to a copper 10/100, 10/100/1000, or 1000BASE-T SFP module port on the switch, regardless of the type of device or other end of the connection.

Install the SFP Modules and Connect to the Ports

Follow these steps:

Step 1	Grasp the module on the sides, and insert it into the switch slot until you feel the connector snap into place.	
Step 2	Insert an appropriate cable into the module port. Insert the other cable end into the other device.	

For a list of supported modules, see the release notes on Cisco.com. For detailed instructions on installing, removing, and connecting to SFP modules, see the documentation that came with the SFP module.

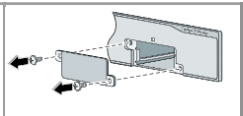
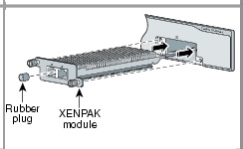
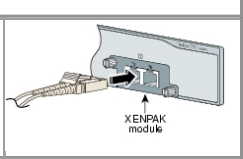
Caution Removing and installing an SFP module can shorten its useful life. Do not remove and insert SFP modules more often than is absolutely necessary.

Verify Port Connectivity

After you connect to the switch port, the port LED turns amber while the switch establishes a link. This process takes about 30 seconds, and then the LED turns green when the switch and the target device have an established link. If the LED is off, the target device might not be turned on, there might be a cable problem, or there might be a problem with the adapter installed in the target device. See the ["In Case of Difficulty" section](#) for information about online assistance.

Install the XENPAK Module and Connect to the Ports

Follow these steps to install a XENPAK module into the XENPAK module slot on the front panel of the Catalyst 3750G-16TD switch:

Step 1	Remove the two Phillips-head retaining screws from the XENPAK module slot cover, and store them for later use. Remove the cover.	
Step 2	Align the XENPAK module with the guide rails inside the module slot, and slide the module into the slot until the XENPAK faceplate is flush with the switch faceplate.	
Step 3	Secure the XENPAK module in place by tightening the two captive installation screws. Do not overtighten the screws.	
Step 4	Remove the rubber plugs from the XENPAK module ports and fiber-optic cable, and store them for future use.	
Step 5	Align the cable SC connector with the XENPAK module connector, so that transmit (TX) meets receive (RX), and RX meets TX.	

See the ["Verify Port Connectivity" section](#) for instructions on how to verify that the XENPAK module ports have established a link to the external device.

7 In Case of Difficulty

If you experience difficulty, help is available here and on Cisco.com. This section includes Express Setup troubleshooting, how to reset the switch, how to access help online, and where to find more information.

Troubleshooting Express Setup

If Express Setup does not run, or if the Express Setup page does not appear in your browser:

- | | |
|---|---|
| • Did you verify that POST successfully ran before starting Express Setup? | If not, make sure that only the SYST and STAT LEDs are green before pressing the Mode button to enter the Express Setup mode. |
| • Did you press the Mode button while the switch was still running POST? | If yes, wait until POST completes. Power cycle the switch. Wait until POST completes. Confirm that the SYST and STAT LEDs are green. Press the Mode button to enter Express Setup mode. |
| • Did you try to continue without confirming that the switch was in Express Setup mode? | Verify that all LEDs above the Mode button are green. (The RPS LED is off.) If necessary, press the Mode button to enter Express Setup mode. |
| • Does your PC have a static IP address? | If yes, before connecting to the switch, change your PC settings to temporarily use DHCP. |
| • Did you connect a crossover cable instead of a straight-through Ethernet cable between a switch port and the Ethernet port of the PC? | If yes, connect a straight-through cable to an Ethernet port on the switch and the PC. Wait 30 seconds before entering 10.0.0.1 in the browser. |
| • Did you connect the Ethernet cable to the console port instead of to a 10/100 or 10/100/1000 Ethernet port on the switch? | If yes, disconnect from the console port. Connect to an Ethernet port on the switch and the PC. Wait 30 seconds before entering 10.0.0.1 in the browser. |
| • Did you wait 30 seconds after connecting the switch and the PC before entering the IP address in your browser? | If not, wait 30 seconds, re-enter 10.0.0.1 in the browser, and press Enter . |
| • Did you enter the wrong address in the browser, or is there an error message? | If yes, re-enter 10.0.0.1 in the browser, and press Enter . |

Resetting the Switch

- This section describes how to reset the switch by rerunning Express Setup. These are reasons why you might want to reset the switch:
- You installed the switch in your network and cannot connect to it because you assigned the wrong IP address.
 - You want to clear all configuration from the switch and assign a new IP address.
 - You are trying to enter Express Setup mode, and the switch LEDs start blinking when you press the Mode button (which means that the switch is already configured with IP information).



Caution Resetting the switch deletes the configuration and reboots the switch.

- To reset the switch:
- Press and hold the Mode button. The switch LEDs begin blinking after about 3 seconds. Continue holding down the Mode button. The LEDs stop blinking after 7 more seconds, and then the switch reboots.
- The switch now behaves like an unconfigured switch. You can enter the switch IP information by using Express Setup as described in the ["Running Express Setup" section](#).

Accessing Help Online

- First look for a solution to your problem in the troubleshooting section of the *Catalyst 3750 Hardware Installation Guide* or the *Catalyst 3750 Software Configuration Guide* on Cisco.com. You can also access the Cisco Technical Support and Documentation website for a list of known hardware problems and extensive troubleshooting documentation, including:
- Factory defaults and password recovery
 - Recovery from corrupted or missing software
 - Switch port problems
 - Network interface cards
 - Troubleshooting tools
 - Field notices and security advisories
- Follow these steps:
1. Open your browser, and go to <http://www.cisco.com/>.
 2. Click **Technical Support**.
 3. Click **Product Support > Switches > LAN and ATM Switches > Catalyst 3750 Series Switches > Troubleshooting**.
 4. Click the subject that addresses the problem that you are experiencing.

For More Information

- For more information about the switch, see these documents on Cisco.com:
- *Catalyst 3750 Switch Hardware Installation Guide* (not orderable, but available on Cisco.com). This guide provides complete hardware descriptions and detailed installation procedures.
 - *Regulatory Compliance and Safety Information for the Catalyst 3750 Switch* (order number DOC-7816664+). This guide contains agency approvals, compliance information, and translated warning statements.
 - *Release Notes for the Catalyst 3750 Switch* (not orderable but available on Cisco.com)
 - *Catalyst 3750 Switch Software Configuration Guide* (order number DOC-7815164+). This guide provides a product overview and detailed descriptions and procedures of the switch software features.
 - *Catalyst 3750 Switch Command Reference* (order number DOC-7815165+). This reference provides detailed descriptions of the Cisco IOS commands specifically created or modified for the switch.
 - *Catalyst 3750 Switch System Message Guide* (order number DOC-7815166+). This guide provides descriptions of the system messages specifically created or modified for the switch.
 - CMS online help (available only from the switch CMS software)

8 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

Ordering Documentation

- You can find instructions for ordering documentation at this URL:
- http://www.cisco.com/univercd/cc/td/doc/les_inpk/pdl.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/index.shtml>
 - 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).

9 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.

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 on 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; 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. 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 entire 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/>
 - The Cisco Product Catalog describes the networking products offered by Cisco Systems, as well as ordering and customer support services. Access the Cisco Product Catalog at this URL:
<http://cisco.com/univercd/cc/td/doc/cgcat/>
 - 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/teaming/index.html>

12 Cisco Limited Lifetime 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_inpkc/etrans.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:
78-6310-02C0
 - 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

A Cisco product hardware warranty is supported for as long as the original end user continues to own or use the product, provided that the fan and power supply warranty is limited to five (5) years. In the event of a discontinuance of product manufacture, the warranty support is limited to five (5) years from the announcement of the discontinuance.

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 the 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	