Installing the Nortel Ethernet Switch 325

NORTEL

International regulatory statements of conformity

This is to certify that the Nortel Ethernet Switch 325 was evaluated to the international regulatory standards for ElectroMagnetic Compliance (EMC) and safety and were found to have met the requirements for the following international standards:

- EMC - Electromagnetic Emissions – CISPR 22, Class A
- EMC - Electromagnetic Immunity – CISPR 24
- Electrical Safety – IEC 60950, with CB member national deviations

Further, the equipment has been certified as compliant with the national standards as detailed below.

National electromagnetic compliance (EMC) statements of compliance

FCC statement (USA only)

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy. If it is not installed and used in accordance with the instruction manual, it may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case users will be required to take whatever measures may be necessary to correct the interference at their own expense.

ICES statement (Canada only)

Canadian Department of Communications Radio Interference Regulations

This digital apparatus (Nortel Ethernet Switch 325) does not exceed the Class A limits for radio-noise emissions from digital apparatus as set out in the Radio Interference Regulations of the Canadian Department of Communications.

Règlement sur le brouillage radioélectrique du ministère des Communications

Cet appareil numérique (Nortel Ethernet Switch 325) respecte les limites de bruits radioélectriques visant les appareils numériques de classe A prescrites dans le Règlement sur le brouillage radioélectrique du ministère des Communications du Canada.

CE marking statement (Europe only)

EN 55 022 statements

This is to certify that the Nortel Ethernet Switch 325 is shielded against the generation of radio interference in accordance with the application of Council Directive 89/336/EEC. Conformity is declared by the application of EN 55 022 Class A (CISPR 22).

Caution: This device is a Class A product. In a domestic environment, this device can cause radio interference, in which case the user may be required to take appropriate measures. (For translations of this statement, see page 28).

EN 55 024 statement

This is to certify that the Nortel Ethernet Switch 325 is shielded against the susceptibility to radio interference in accordance with the application of Council Directive 89/336/EEC. Conformity is declared by the application of EN 55 024 (CISPR 24).

EC Declaration of Conformity

This product conforms to the provisions of the R&TTE Directive 1999/5/EC.

VCCI statement (Japan/Nippon only)

This is a Class A product based on the standard of the Voluntary Control Council for Interference (VCCI) for information technology equipment. If this equipment is used in a domestic environment, radio disturbance may arise. When such trouble occurs, the user may be required to take corrective actions.

この装置は、情報処理装置等電波障害自主規制協議会（ＶＣＣＩ）の基準
に基づくクラスＡ情報技術装置です。この装置を家庭環境で使用すると電波
妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ず
るよう要求されることがあります。

BSMI statement for Nortel Ethernet Switch 325 (Taiwan only)

This is a Class A product based on the standard of the Bureau of Standards, Metrology and Inspection (BSMI) CNS 13438, Class A.

警告使用者：
這是甲類的資訊產品，在居住的環境中使用時，可能會造成射頻
干擾，在這種情況下，使用者會被要求採取某些適當的對策。

MIC notice for Nortel Ethernet Switch 325 (Republic of Korea only)

This device has been approved for use in Business applications only per the Class A requirements of the Republic of Korea Ministry of Information and Communications (MIC). This device may not be sold for use in a non-business application.

Observe the Regulatory Marking label on the bottom surface of the chassis for specific certification information pertaining to this model. Each model in the Ethernet Series which is approved for shipment to/usage in Korea is labeled as such, with all appropriate text and the appropriate MIC reference number.

National safety statements of compliance

CE marking statement (Europe only)

EN 60 950 statement

This is to certify that the Nortel Ethernet Switch 325 is in compliance with the requirements of EN 60 950 in accordance with the Low Voltage Directive. Additional national differences for all European Union countries have been evaluated for compliance.

NOM statement Nortel Ethernet Switch 325 (Mexico only)

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Exporter:	Nortel Networks 4655 Great America Parkway Santa Clara CA 95054 USA
Importer:	Nortel Networks de México, S.A. de C.V. Avenida Insurgentes Sur #1605 Piso 30, Oficina Col. San Jose Insurgentes Deleg-Benito Juarez México D.F. 03900
Tel:	52 5 480 2100
Fax:	52 5 480 2199
Input:	Nortel Ethernet Switch 325
	100 - 120 VAC 16A 50 to 60 Hz
	200 - 240 VAC 12 A 50 to 60 Hz

Información NOM (unicamente para México)

La información siguiente se proporciona en el dispositivo o en los dispositivos descritos en este documento, en cumplimiento con los requisitos de la Norma Oficial Méxicana (NOM):

Exportador:	Nortel Networks 4655 Great America Parkway Santa Clara, CA 95054 USA
Importador:	Nortel Networks de México, S.A. de C.V. Avenida Insurgentes Sur #1605 Piso 30, Oficina Col. San Jose Insurgentes Deleg-Benito Juarez México D.F. 03900
Tel:	52 5 480 2100
Fax:	52 5 480 2199
Embarcar a:	Nortel Ethernet Switch 325
	100 - 120 VAC 16A 50 to 60 Hz
	200 - 240 VAC 12 A 50 to 60 Hz

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Installing the Ethernet Switch 325

About this guide

This guide provides instructions on installing the Nortel Ethernet Switch 325 on a table or an equipment rack. For more information about the Ethernet Switch 325, refer to the *System Configuration Guide for Nortel Ethernet Switches 325 and 425, Software Release 3.6* (320985-A).

→	**Note:** The term "Ethernet Switch 325" is used in this guide to describe features or procedures that are common to the Ethernet Switch 325-24G and the Ethernet Switch 325-24T.
	The terms "Ethernet Switch 325-24G" and "Ethernet Switch 325-24T" are used to describe features or procedures exclusive to a particular switch.

Table 1 describes the order numbers for the Ethernet Switch 325.

Table 1   Order numbers for the Ethernet Switch 325

Power Cord Option Description	Ethernet Switch 325-24G	Ethernet Switch 325-24T
No Power Cord	AL2012A46	AL2012A45
European Schuko Power Cord	AL2012B46	AL2012B45
UK and Ireland Power Cord	AL2012C46	AL2012C45
Japan Power Cord	AL2012D46	AL2012D45
North America Power Cord	AL2012E46	AL2012E45
Australia, New Zealand, PRC Power Cord	AL2012F46	AL2012F45

This guide provides information on the following topics:

- "Before you begin" on page 10
- "Package contents" on page 11
- "Installing the Ethernet Switch 325 on a table or shelf" on page 12
- "Installing the Ethernet Switch 325 on an equipment rack" on page 13

Before you begin

Ensure that the area meant for installing the Ethernet Switch 325 meets the following environmental requirements:

- Ambient temperature between 32° and 104° F (0° and 40° C)
- Relative humidity between 10% and 85% noncondensing
- No nearby heat sources such as hot air vents or direct sunlight
- No nearby sources of severe electromagnetic noise
- No excessive dust
- Adequate power source within six feet; one 15-Amp circuit required for each power supply
- At least 2 inches (5.08 cm) on each side of the switch unit for ventilation
- Adequate space at the front and rear of the switch for access to cables

If you are installing the Ethernet Switch 325 on a table or a shelf, make sure that the surface supports at least 10 to 15 pounds (7 to 9 kilograms).

Package contents

Figure 1   Package Contents for the Ethernet Switch 325
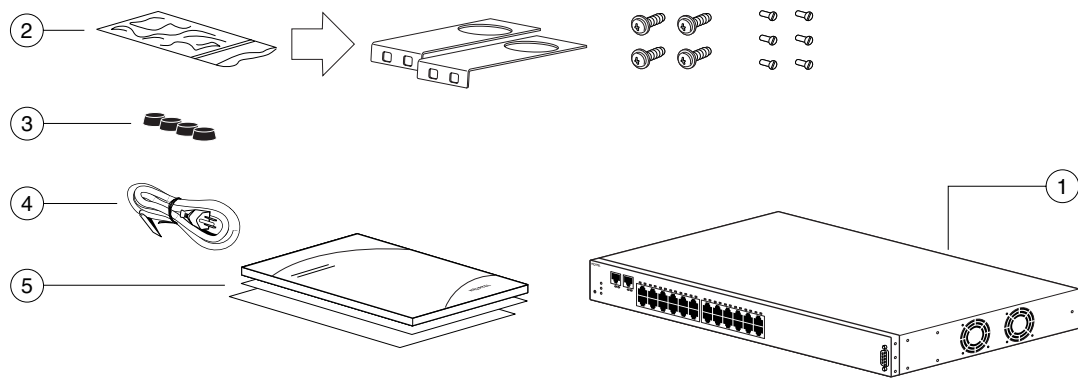
11101FR

1 = Ethernet Switch 325
2 = Rack-mounting hardware:
   •Rack-mount brackets
   •Screws for attaching brackets to the switch
   •Screws for attaching the switch to the equipment rack
3 = Rubber footpads
4 = AC power cord (Power Cord is not included for order numbers AL2012A46 and AL2012A45)
5 = Documentation

Warning: To avoid injury from hazardous electrical shock and current, never remove the top cover of the device. There are no user-serviceable components inside. (For translations of this statement, see)

Installing the Ethernet Switch 325 on a table or shelf

You can install a single Ethernet Switch 325 on any flat surface that can safely support the weight of the switch and the attached cables (10 to 15 Pounds). Follow the instructions given below to install the Ethernet Switch 325 on a table or shelf.

1 Attach the rubber feet at the marked location.

11102FA
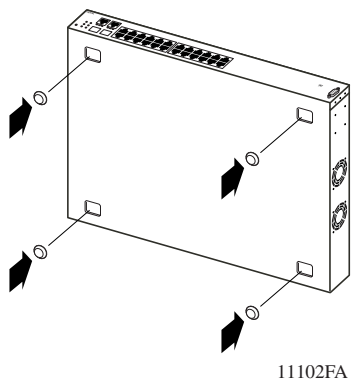
2 Set the switch on a table or shelf.

11103FA
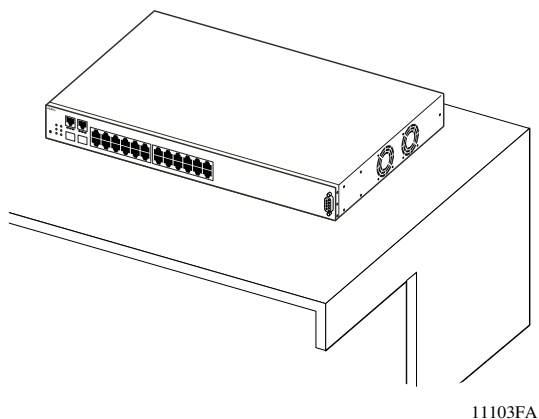
Allow at least 2 inches (5.1 cm) on each side for proper ventilation and at least 5 inches (12.7 cm) at the back for power cord clearance.

Installing the Ethernet Switch 325 on an equipment rack

Required tool: Phillips # 2 screwdriver for attaching brackets to the switch

Rack requirements:

- A space of 2.8 inches is provided for each switch in an EIA or IEC standard 19-inch (48.2-centimeter) equipment rack.
- The rack is bolted to the floor and braced if necessary.
- The rack is grounded to the same grounding electrode used by the power service in the area. The ground path must be permanent and must not exceed 1 Ohm of resistance from the rack to the grounding electrode.

Follow the instructions given below to install the Ethernet Switch 325 on an equipment rack.

1 Attach a bracket to each side of the switch. The bracket with the round holes goes on the right side of the switch, where the round fan vents are located.

11104FA
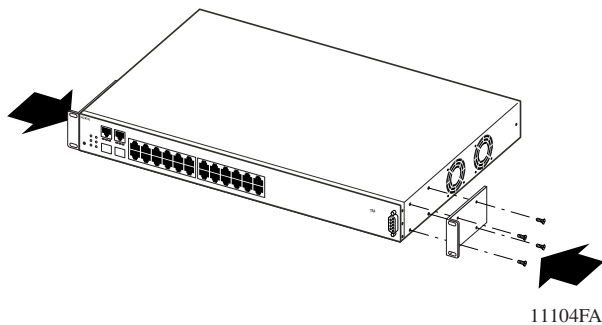
2 Slide the switch into the rack. Insert and tighten the rack-mount screws.
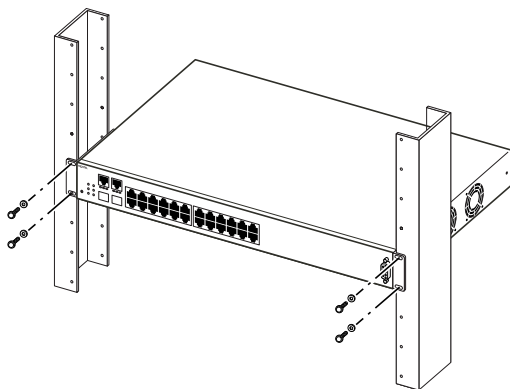
11105FA

Network Connection requirements

Table 2   Required cables

10/100BASE-T ports	For 10 Mb/s operation: Category 3, 4, or 5 UTP cable with an RJ-45 connector
	For 100 Mb/s operation: Category 5 UTP cable with an RJ-45 connector.
1000 Base-T ports	For 1000 Mb/s operation: Category 5 Four-Pair UTP cable with an RJ-45 connector.
Console Port	Straight-through serial cable with DB-9 female connector at one end.

→ **Note:** When Autonegotiation is enabled, the Ethernet Switch 325 automatically provides MDI/MDI-X connection on the RJ-45 ports, eliminating the need for crossover cables. When Autonegotiation is disabled, the RJ-45 ports provide an MDI-X connection, which allows end-station equipment to be connected using straight-through cables.
To connect other MDI-X port devices, such as another switch or a hub, a crossover cable must be used.

Port connectors and pin assignments

Table 3, Table 4, and Table 5 describe the port connectors and pin assignments for the Ethernet Switch 325.

Table 3 Pin assignments in the 10/100BASE-T port

Connector	Pin Number	Signal for 10/100BASE-T MDI Configuration	Signal for 10/100BASE-T MIDI-X Configuration
87654321 9464EA	1	Output transmit data + (TX+)	Input receive data + (RX+)
	2	Output transmit data - (TX-)	Input receive data - (RX-)
	3	Input receive data + (RX+)	Output transmit data + (TX+)
	6	Input receive data - (RX-)	Output transmit data - (TX-)
	4, 5, 7, 8	Not used	

Table 4 Pin assignments for the 1000BASE-T MDI and 1000BASE-T MIDI-X Configurations
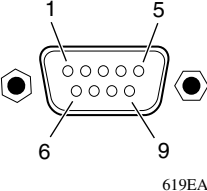
Connector	Pin number	Signal for 1000BASE-T MDI Configuration	Signal for 1000BASE-T MIDI Configuration
87654321 9464EA	1	TP0+	TP1+
	2	TP0-	TP1-
	3	TP1+	TP0+
	4	TP2+	TP3+
	5	TP2-	TP3-
	6	TP1-	TP0-
	7	TP3+	TP2+
	8	TP3-	TP2-
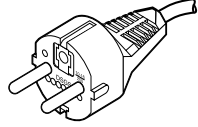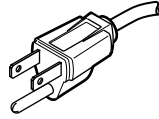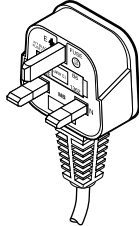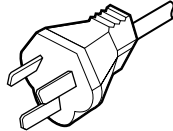
Table 5 Pin assignments in the console port

Connector	Pin number	Signal
	1	Carrier detect (not used)
	2	Transmit data (TXD)
	3	Receive data (RXD)
	4	Data terminal ready (not used)
	5	Signal ground (GND)
	6	Not used
	7	Request to send (not used)
	8	Not used
	9	Ring indicator (not used)

AC Power specifications

Required cable: Use an AC power cord that meets the requirements of your local electrical code. Refer to Table 6 for plug specifications.

Table 6   International power cord specifications

Country/Plug description	Specifications	Typical plug
Continental Europe: • CEE7 standard VII male plug • Harmonized cord (HAR marking on the outside of the cord jacket to comply with the CENELEC Harmonized Document HD-21)	220 or 230 VAC 50 Hz Single phase	228FA
U.S./Canada/Japan: • NEMA5-15P male plug • UL recognized (UL stamped on cord jacket) • CSA certified (CSA label secured to the cord)	100 or 120 VAC 50–60 Hz Single phase	227FA
United Kingdom: • BS1363 male plug with fuse • Harmonized cord	240 VAC 50 Hz Single phase	229FA
Australia: AS3112-1981 Male plug	240 VAC 50 Hz Single phase	230FA

⚡ **Danger:** Use only power cords that have a grounding path. Without a proper ground, a person who touches the switch is in danger of receiving an electrical shock. Lack of a grounding path to the switch may result in excessive emissions. (For translations of this statement, see page 30.)

AC power specifications

Input current:	2A @ 120 VAC, 1A @ 240 VAC
Input voltage (rms):	100 to 240 VAC at 47 to 63 Hz
Power consumption:	46 W
Thermal rating:	75 BTU/hr maximum

Back panel

The back panel of the Ethernet Switch 325 is shown in Figure 2.
Table 7 describes the components on the back panel.

Figure 2   Ethernet Switch 325 back panel

100-240 V~
50-60Hz 2A
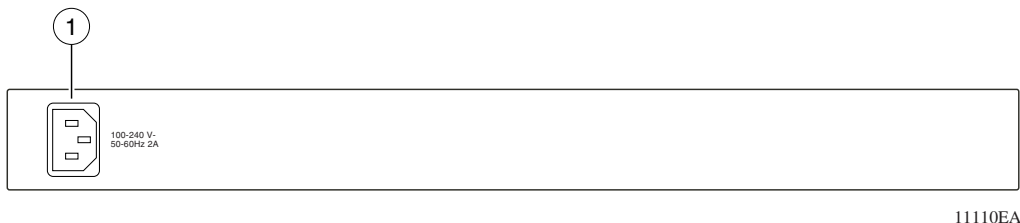
11110EA

Table 7   Components on the Ethernet Switch 325 back panel

Item	Description
1	AC power receptacle

Connect the AC power cord to the back of the switch, and then connect the cord to an AC power outlet.

The Ethernet Switch 325 does not have an AC power switch. When you connect the AC power cord to a suitable AC power outlet, the switch powers up immediately.

⚠ **Warning:** Disconnecting the AC power cord is the only way to turn off AC power to this device. Always connect the AC power cord in a location that can be reached quickly and safely in case of an emergency. (For translations of this statement, see page 31.)

Front panel

Figure 3 displays the front and side views of the Ethernet Switch 325-24G.

Figure 3   Ethernet Switch 325-24G front panel.

Ethernet Switch 325-24G

11108ER
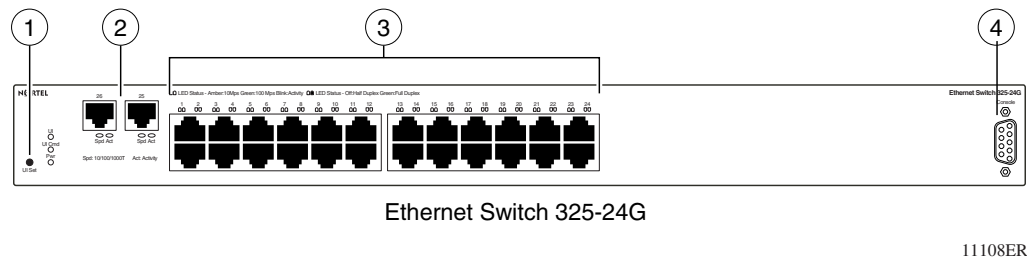
Table 8 describes the components of the Ethernet Switch 325-24G front panel.

Table 8   Components of the Ethernet Switch 325-24G front panel

Item	Description
1	LED display panel
2	1000T Connectors (not available on the Ethernet Switch 325-24T)
3	Port connectors
4	Console port

Checking LEDs

Figure 4 displays the LED display panel of the Ethernet Switch 325. Table 9 provides descriptions of the LEDs. The table describes the LED operation for Ethernet Switch 325 that has completed its power-on self tests.

Figure 4 Ethernet Switch 325-24G LED display panel
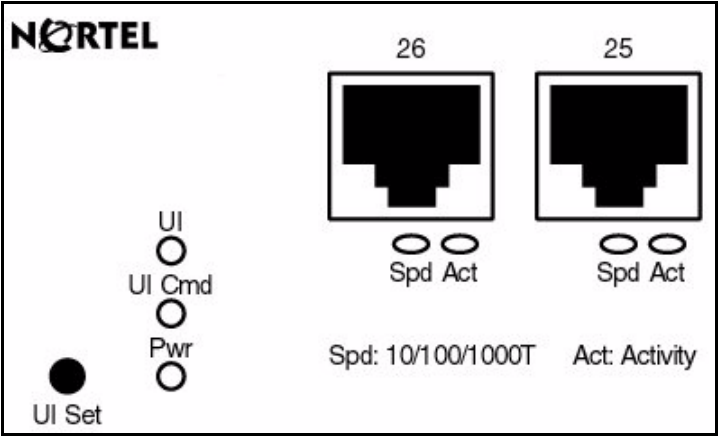
Table 9 LEDs on the Ethernet Switch 325-24G

Ports	Label	Color/Status	Description
Access Ports	Link (Activity Port 1 and 24)	Green	Station connected at 100 Mbps
		Amber	Station connected at 10 Mbps
		Green/Flashing	Traffic activity at 100 Mbps
		Amber/Flashing	Traffic activity at 10 Mbps
		Off	No Link/ No traffic
	Half/Full Duplex	Green	Full duplex
		Off	Half duplex connection

Table 9   LEDs on the Ethernet Switch 325-24G (continued)

Ports	Label	Color/Status	Description
Uplink ports	Spd	Green	This port has a good connection (copper - at 1000 Mbps).
		Amber	This port has a good connection (copper - at 100 Mbps).
		Amber/Green	This port has a good connection (copper - at 10 Mbps)
		Off	This port does not have a good connection.
	Act (Activity)	Green (blinking)	There is activity on this port.
		Off	There is no activity on this port.
System LEDs	UI Set	Button	The UI Set button is used to reset the switch without a console connection.
	UI	Green	The switch is operating normally.
		Amber	A flash error occurred.
		Off	The switch is inactive.
	UI Cmd	Off	Normally off.
		Amber/blinking	The UI Cmd LED blinks once each time the UI Set button is pressed, and while the UI LED is blinking.
	Pwr	Green	Power is available to the switch.
		Off	No power is available to the switch.

Initial switch setup

The Ethernet Switch 325 begins switching data as soon as you attach network devices and connect the switch to the power supply. To manage the switch over the network or to perform TFTP operations, set the following IP parameters as a part of the initial setup of a switch:

- IP address of the switch
- Subnet mask
- Gateway address

Refer to the *System Configuration Guide for Nortel Ethernet Switches 325 and 425, Software Release 3.6* (320985-A) for more information about configuring your switch using the Console Interface menu.

Setting IP parameters

To set the IP parameters:

1 Connect a terminal to the Console port on the switch.

You can use any terminal or a PC with a terminal emulator as the management station. Ensure that the terminal has the following features:

— 9600 bits per second (b/s)

— 8 data bits

— One stop bit

— No parity and no flow control

— Serial terminal-emulation program such as HyperTerminal for Windows*.

— Cable and connector to match the male DTE connector (DB-9) on the Ethernet Switch 325 console port.

2 Set the terminal protocol:

— In the **Terminal Preferences** window under **Terminal Options**, select the **VT100 Arrows** check box. Ensure that the **Block Cursor** check box is not selected.

— Select the **VT-100/ANSI** check box under **Emulations**.

3 Connect the Ethernet Switch 325 to the power supply.

4 After the Nortel logo is displayed, press **Ctrl+Y** to display the Main Menu.

Figure 5 displays the **Ethernet Switch 325-24T Main Menu**.

Figure 5   Ethernet Switch 325-24T Main Menu screen

```
                   Ethernet Switch 325-24T Main Menu

                   IP Configuration/Setup...
                   SNMP Configuration...
                   System Characteristics...
                   Switch Configuration...
                   Console/Comm Port Configuration...
                   Spanning Tree Configuration...
                   TELNET/SNMP/Web Access Configuration...
                   Software Download...
                   Configuration File...
                   Display System Log...
                   Reset...
                   Reset to Default Settings...
                   Shutdown Command...
                   Command Line Interface...
                   Logout...

Use arrow keys to highlight option, press <Return> or <Enter> to select
option.
```

5   Select **IP Configuration/Setup** (or press **i**) to display the **IP Configuration/Setup** menu
(Figure 6).

→   **Note:** The default management VLAN in the Ethernet Switch 325 is VLAN 1. To
manage the switch, make sure the network management station is on the management
VLAN or is connected to the management VLAN through routers.

Figure 6   IP Configuration/Setup screen

```
                          IP Configuration/Setup

                 BootP Request Mode:  [ BootP Disabled        ]


                             Configurable           In Use          Last BootP
                             ------------------   ---------------   ----------

In-Band Switch IP Address: [ 192.168.151.174 ]  192.168.151.174   0.0.0.0
In-Band Subnet Mask:       [ 255.255.255.0 ]    255.255.255.0     0.0.0.0

Default Gateway:           [ 192.168.151.1 ]    192.168.151.1     0.0.0.0

IP Address to Ping:        [ 192.168.151.1 ]
Start Ping:                [  No ]


Use space bar to display choices, press <Return> or <Enter> to select
choice. Press Ctrl-R to return to previous menu.  Press Ctrl-C to return to
Main Menu.
```

6   In the **In-Band Switch IP Address** field, enter the IP address of the switch in the dotted-decimal notation.

7   In the **In-Band Subnet Mask** field, enter the IP subnet mask address.

> → **Note:** If the **In-Band Subnet Mask** field does not contain any value when you enter the IP address in the **In-Band IP Address** field, the switch software provides a default value for the **In-Band Subnet Mask** field. This value is based on the class of the IP address that you specify.

8   In the **Default Gateway** field, enter the default gateway address.

9   Press **Ctrl+C** to return to the Main Menu.

> → **Note:** To reset the Ethernet Switch 325 to factory defaults, select **Reset to Default Settings** on the Main Menu and press **Enter**.

Related publications

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For more information about using the Ethernet Switch 325, refer to the following publications:

- *Release Notes for the Nortel Ethernet Switch 325/425, Software Release 3.6* (217155-B)

  Documents important changes about the software and hardware that are not covered in other related publications.

- *System Configuration Guide for Nortel Ethernet Switches 325 and 425, Software Release 3.6* (320985-A)

  Describes the various management interfaces and how to use them to configure basic switching features for the Nortel Ethernet Switches 325 and 425.

- *Configuring VLANs, Spanning Tree, and MultiLink Trunking for Nortel Ethernet Switches 325 and 425, Software Release 3.6* (320986-A)

  Describes how to configure Virtual Local Area Networks (VLAN), Spanning Tree Protocol (STP), and MultiLink Trunk (MLT) features for the Nortel Ethernet Switches 325 and 425.

- *Configuring QoS for Nortel Ethernet Switches 325 and 425, Software Release 3.6* (320987-A)

  Describes how to configure and manage Quality of Service features for the Nortel Ethernet Switches 325 and 425.

- *Configuring and Managing Security for Nortel Ethernet Switches 325 and 425, Software Release 3.6* (320988-A)

  Describes how to configure and manage security for the Nortel Ethernet Switches 325 and 425.

- *System Monitoring Guide for Nortel Ethernet Switches 325 and 425, Software Release 3.6* (320989-A)

  Describes how to configure system logging and network monitoring, and how to display system statistics for the Nortel Ethernet Switches 325 and 425.

- *Configuring IP Multicast for Nortel Ethernet Switches 325 and 425, Software Release 3.6* (320990-A)

  Describes how to configure IP Multicast Routing Protocol features for the Nortel Ethernet Switches 325 and 425.

How to get help

This section explains how to get help for Nortel products and services.

Getting help from the Nortel web site

The best way to get technical support for Nortel products is from the Nortel Technical Support web site:

www.nortel.com/support

This site provides quick access to software, documentation, bulletins, and tools to address issues with Nortel products. More specifically, the site enables you to:

- download software, documentation, and product bulletins
- search the Technical Support web site and the Nortel Knowledge Base for answers to technical issues
- sign up for automatic notification of new software and documentation for Nortel equipment
- open and manage technical support cases

Getting help through a Nortel distributor or reseller

If you purchased a service contract for your Nortel product from a distributor or authorized reseller, contact the technical support staff for that distributor or reseller.

Getting help over the phone from a Nortel Solutions Center

If you do not find the information you require on the Nortel Technical Support web site, and have a Nortel support contract, you can also get help over the phone from a Nortel Solutions Center.

In North America, call 1-800-4NORTEL (1-800-466-7835).

Outside North America, go to the following web site to obtain the phone number for your region:

www.nortel.com/callus

Getting help from a specialist by using an Express Routing Code

An Express Routing Code (ERC) is available for many Nortel products and services. When you use an ERC, your call is routed to a technical support person who specializes in supporting that product or service. To locate the ERC for your product or service, go to:

www.nortel.com/erc

Translations of the Safety Messages

This section provides translations of the Caution, Danger, and Warning messages that appear within this document.

Caution: This device is a Class A product. In a domestic environment, this device can cause radio interference, in which case the user may be required to take appropriate measures.

Achtung: Dieses Gerät ist ein Produkt der Klasse A. In Wohngebieten kann dieses Gerät Funkstörungen verursachen. In diesem Fall muß der Benutzer die erforderlichen Maßnahmen zur Beseitigung ergreifen.

Attention: Ce périphérique est un produit de classe A. Il peut provoquer des interférences radio dans un environnement domestique;si tel est le cas, l'utilisateur devra prendre les mesures qui s'imposent.

Precaución: Este dispositivo es un producto de Clase A. En un entorno doméstico, este dispositivo puede ocasionar interferencias de radio, en cuyo caso, el usuario deberá tomar las medidas necessarias.

Attenzione: Il dispositivo descritto nel presente documento è un prodotto di Classe A. Se usato in ambienti domestici, può provocare interferenze radio. In tal caso, l'utente è tenuto a prendere provvedimenti adeguati.

注意：この機器は、クラスAの製品です。国内の環境で、この機器は電波障害を引き起こす恐れがあります。この場合、ユーザは適切な対策を講じる必要があります。

注意：本设备属于A类设备。在居住环境中，本设备可能会造成无线电干扰。在这种情况下，用户可能需要采取适当的措施。

警告：该设备是 A 类产品。在住宅区内使用该设备可能会产生射频干扰，此时用户应采取相应的措施。

⚠ **Warning:** To avoid injury from hazardous electrical shock and current, never remove the top cover of the device. There are no user-serviceable components inside.

⚠ **Warnung:** Um gesundheitliche Schäden zu vermeiden, öffnen Sie nie den oberen Gehäusedeckel. Es befinden sich keine durch den Benutzer zu wartenden Teile im Inneren.

⚠ **Avertissement:** pour éviter tout risque d'électrocution, ne retirez jamais le couvercle du module. Celui-ci ne comprend aucun composant pouvant être dépanné par l'utilisateur.

⚠ **Advertencia:** No retire nunca la cubierta superior del dispositivo, ya que podría resultar herido como consecuencia de una descarga eléctrica y de corriente. Dentro del dispositivo no hay ningún componente que pueda reparar el usuario.

⚠ **Avviso:** per evitare lesioni personali da scosse elettriche e tensioni pericolose, non rimuovere mai il coperchio superiore del dispositivo. Questo prodotto non contiene parti riparabili dall'utente.

⚠ 警告：感電の危険性を防ぐため、装置のトップカバーを開けないようにしてください。使用者による内部コンポーネントの修理は行えません。

⚠ 警告：为避免身体接触危险的电流或遭到电击，切勿取下设备的顶盖。设备内的所有组件都不是用户所能维修的。

⚠ 警告：若要避免身體遭受觸電的危險，請不要移除裝置上面的殼蓋。裏面並沒有使用者可用的元件。

Danger: Use only power cords that have a grounding path. Without a proper ground, a person who touches the switch is in danger of receiving an electrical shock. Lack of a grounding path to the switch may result in excessive emissions.

Vorsicht: Verwenden Sie nur Netzkabel mit Schutzerdung. Ohne ordnungsgemäße Schutzerdung besteht für Personen, die den Switch berühren, die Gefahr eines elektrischen Schlages. Eine nichtvorhandene Schutzerdung kann zu sehr starken Abstrahlungen führen.

Danger: n 'utilisez que des cordons d 'alimentation équipés de trajet de mise à la terre. Sans mise à la terre adaptée, vous risquez de recevoir une décharge électrique en touchant le commutateur. Par ailleurs, l'absence de trajet de mise à la terre peut générer des émissions excessives.

Peligro: Utilice únicamente cables de alimentación con toma de tierra. De lo contrario, al tocar el interruptor puede recibir una descarga eléctrica. Si no hay un circuito de toma de tierra en el enchufe, puede producirse un exceso de emisiones.

Pericolo: Utilizzare esclusivamente cavi di alimentazione dotati di un percorso per la messa a terra. Senza un 'adeguata messa a terra, chiunque tocchi lo switch corre il rischio di ricevere una scossa elettrica. L 'assenza di un percorso per la messa a terra erso lo switch può comportare un eccesso di emissioni.

危険：接地経路を持つ電源コードを必ず使用するようにしてください。適切な接地がない状態でスイッチに触ると、感電する危険性があります。また、スイッチへの接地経路がないと、過度な放電を引き起こす可能性があります。

危險：請勿使用沒有接地的電線。若未妥善接地，接觸開關的人員可能有遭受觸電的危險。開關若缺乏接地則可能有漏電之虞。

危险：请仅使用接地的电源线。如果电源线不接地或接地不当，接触交换机的人员可能会受到电击。如果交换机不接地，则可能导致放电过量。

⚠ **Warning:** Disconnecting the AC power cord is the only way to turn off AC power to this device. Always connect the AC power cord in a location that can be reached quickly and safely in case of an emergency.

⚠ **Warnung:** Das Gerät kann nur durch Ziehen des Netzsteckers ausgeschaltet werden. Schließen Sie das Netzkabel an einer Steckdose an, die in Notfällen schnell und sicher zugänglich ist.

⚠ **Avertissement:** pour mettre le module hors tension, vous devez impérativement déconnecter le cordon d'alimentation. En outre, vous devez dégager un espace minimal dans la zone de câblage pour pouvoir y accéder facilement en cas d'urgence.

⚠ **Advertencia:** Para apagar el dispositivo debe desenchufar el cable. Conecte siempre el cable de alimentación a una toma segura y de fácil acceso por si se produjera alguna situación de emergencia.

⚠ **Avviso:** l'unico modo per disattivare questo dispositivo consiste nello scollegare il cavo di alimentazione. Collegare sempre il cavo di alimentazione ad una presa che sia facilmente e rapidamente accessibile in caso di emergenza.

⚠ 警告：この装置の電源は、電源コードを抜かない限り切断できません。緊急の場合にすばやく安全に切断できる場所に電源コードを接続してください。

⚠ 警告：若要關閉此裝置的電源，拔掉插頭是唯一的方法。 為了因應緊急狀況，請將電源線連接到可以快速插拔的地方。

⚠ 警告：断开交流电源线是切断本设备的交流电源的唯一方法。交流电源线一定要连接到在紧急时刻可以快速安全地接触到的位置。

⚠ **Warning:** Fiber optic equipment can emit laser or infrared light that can injure your eyes. Never look into an optical fiber or connector port. Always assume that fiber optic cables are connected to a light source.

⚠ **Vorsicht:** Glasfaserkomponenten können Laserlicht bzw. Infrarotlicht abstrahlen, wodurch Ihre Augen geschädigt werden können. Schauen Sie niemals in einen Glasfaser-LWL oder ein Anschlußteil. Gehen Sie stets davon aus, daß das Glasfaserkabel an eine Lichtquelle angeschlossen its.

⚠ **Avertissement:** L'équipement à fibre optique peut émettre des rayons laser ou infrarouges qui risquent d'entraîner des lésions oculaires. Ne jamais regarder dans le port d'un connecteur ou d'un câble à fibre optique. Toujours supposer que les câbles à fibre optique sont raccordés à une source lumineuse.

⚠ **Advertencia:** Los equipos de fibra óptica pueden emitir radiaciones de láser o infrarrojas que pueden dañar los ojos. No mire nunca en el interior de una fibra óptica ni de un puerto de conexión. Suponga siempre que los cables de fibra óptica están conectados a una fuente luminosa.

⚠ **Avvertenza:** Le apparecchiature a fibre ottiche emettono raggi laser o infrarossi che possono risultare dannosi per gli occhi. Non guardare mai direttamente le fibre ottiche o le porte di collegamento. Tenere in considerazione il fatto che i cavi a fibre ottiche sono collegati a una sorgente luminosa.