

# ERS 2500

## Ethernet Routing Switch 2500 Series

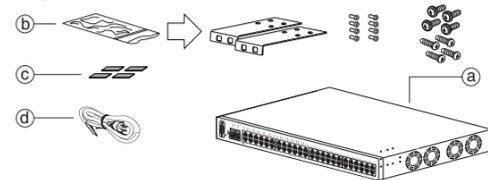
### Quick Install Guide

All documents referenced in this Quick Installation Guide can be downloaded at [www.nortel.com](http://www.nortel.com).

#### Steps 1 → 3 Before you start

1. Confirm that you have the tools and package contents as follows:

- Tools Required:  
Phillips #2 screwdriver  
Package Contents:



- a. Ethernet Routing Switch 2500 Series switch  
b. Rack-mounting hardware

- Rack-mount brackets (2)
  - Screws for attaching brackets to the switch (8)
  - Screws for attaching the switch to the equipment rack (2x4)
- Choose the appropriate rack-mount screws for attaching the switch to your data or phone rack.

- c. Adhesive foot pads (4)  
d. AC power cord

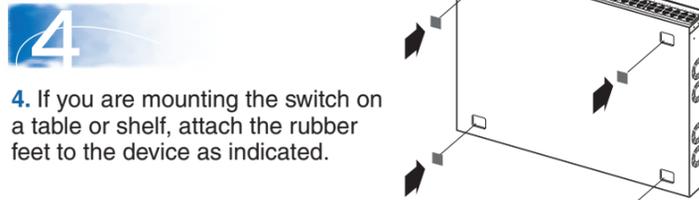
#### 2 (Optional) Prepare the rack:

- a. Provide 2.8 inches of vertical space for each switch in an EIA or IEC-standard 19-inch (48.2-centimeter) equipment rack.  
b. Bolt the rack to the floor and brace it, if necessary.  
c. Ground the rack 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. Nortel recommends using a filter or surge suppressor.

#### 3. When you install the switch into a network, ensure you use the following required cables:

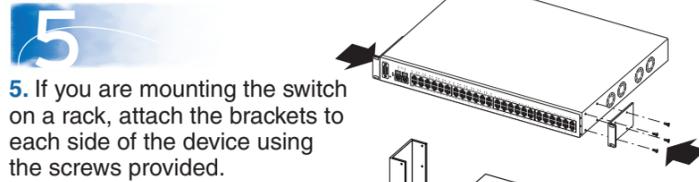
- Category 3, 4, or 5 UTP cable with an RJ-45 connector (for 100 Mb/s operation)
- Category 5 UTP cable with an RJ-45 connector (for 100 Mb/s operation)
- Category 5 Four-Pair UTP cable with an RJ-45 connector (for 1000 BASE-T ports with 1000 Mb/s operation)
- Console Port Straight-through serial cable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

#### Steps 4 → 6 Mounting Options



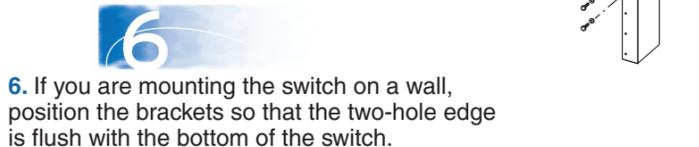
4. If you are mounting the switch on a table or shelf, attach the rubber feet to the device as indicated.

- a. Set the device on a flat surface near an AC power source, making sure there are at least 2 inches (5.1 cm) of space on all sides for proper air flow and at least 5 inches (12.7 cm) at the back for power cord clearance.

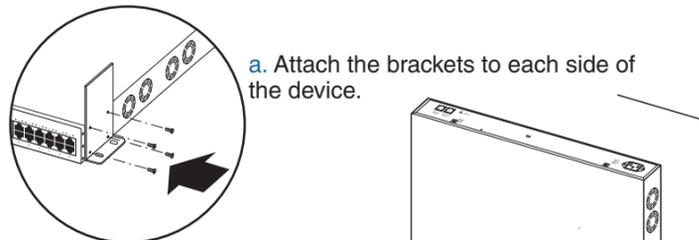


5. If you are mounting the switch on a rack, attach the brackets to each side of the device using the screws provided.

- a. Slide the switch into the rack. Insert and tighten the rack-mount screws.



6. If you are mounting the switch on a wall, position the brackets so that the two-hole edge is flush with the bottom of the switch.



- a. Attach the brackets to each side of the device.

- b. Secure the brackets to the wall using appropriate screws and wall anchors (not provided).

**Note:** One 2500 Series switch weighs as much as 11.6 lbs (5.26 kg). Ensure you choose fasteners appropriate for the weight of the unit. One person can lift and install the 2500 Series switch.



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#### Steps 7 → 9 Powering Up

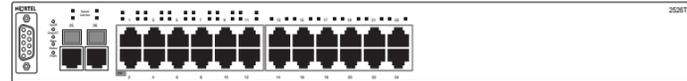
7. Connect the AC power cord to the back of the switch, and then connect the cord to an AC power outlet.



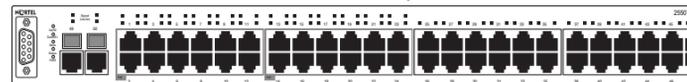
**Warning:** You must use a line cord set approved for the 2500 Series switch and the receptacle type in your country.

8. Check the front-panel LEDs as the device powers on to be sure the PWR LED is lit. If not, check that the power cable is correctly plugged in.

Front Panel 2526T-PWR with 12 PoE ports



Front Panel 2550T-PWR with 24 PoE ports



The 2500 Series switches begin switching data as soon as you attach network devices and connect the switch to the power supply.

#### 9 Setting IP parameters using the console port and CLI Quickstart

9. To set IP parameters using the console port and CLI Quickstart, perform the following tasks:

- a. Connect a terminal to the console port of the switch. Any terminal or PC with an appropriate terminal emulator can be used as the management station. **Terminal emulation settings** lists the parameters that must be used with any terminal emulation software used to connect to the switch.

Terminal emulation settings

Property	Value
Baud Rate	9600 bps
Data Bits	8
Stop Bits	1
Parity	None
Flow Control	None

To connect the terminal to the switch console port, you require a console cable and connector to match the male DTE connector (DB-9) on the switch.

- b. Set the terminal protocol on the terminal or terminal emulation program to VT100 and VT100/ANSI.  
c. Connect to the switch using the terminal or terminal emulation application.  
d. The following screen appears when the switch configuration is set to factory default. Enter the information requested at each prompt.

#### CLI Quickstart welcome screen

```
Welcome to the 2550T setup utility. You will be requested for information to initially configure for the switch. When finished the information will be applied and stored in the switch NVRAM. Once the basic parameters are configured, additional configuration can proceed using other management interfaces. Press ^C to abort at any time.
```

```
The in-band IP Address prompt line appears
Please provide the in-band IP Address[0.0.0.0]:
10.127.232.30
The in-band sub-net mask prompt line appears
Please provide the in-band sub-net mask[0.0.0.0]:
255.255.255.0
```

```
The Default Gateway prompt line appears
Please provide the Default Gateway[0.0.0.0]:
10.127.232.1
```

```
The Read-Only Community String prompt line appears
Please provide the Read-Only Community String[*****]:*****
```

```
The confirm Read-Only Community String prompt line appears
Please confirm the Read-Only Community String[*****]:*****
```

```
The Read-Write Community String prompt line appears
Please provide the Read-Write Community String[*****]:*****
```

```
The confirm Read-Write Community String prompt line appears
Please confirm the Read-Write Community String[*****]:*****
```

```
The Quick Start VLAN prompt line appears
Please provide the Quick Start VLAN <1-4094> [1]:
```

```
The Basic Switch parameters configuration confirmation appears
Basic switch parameters have now been configured and saved.
```

You are now ready to use the 2500 Series switch in your network installation.

