



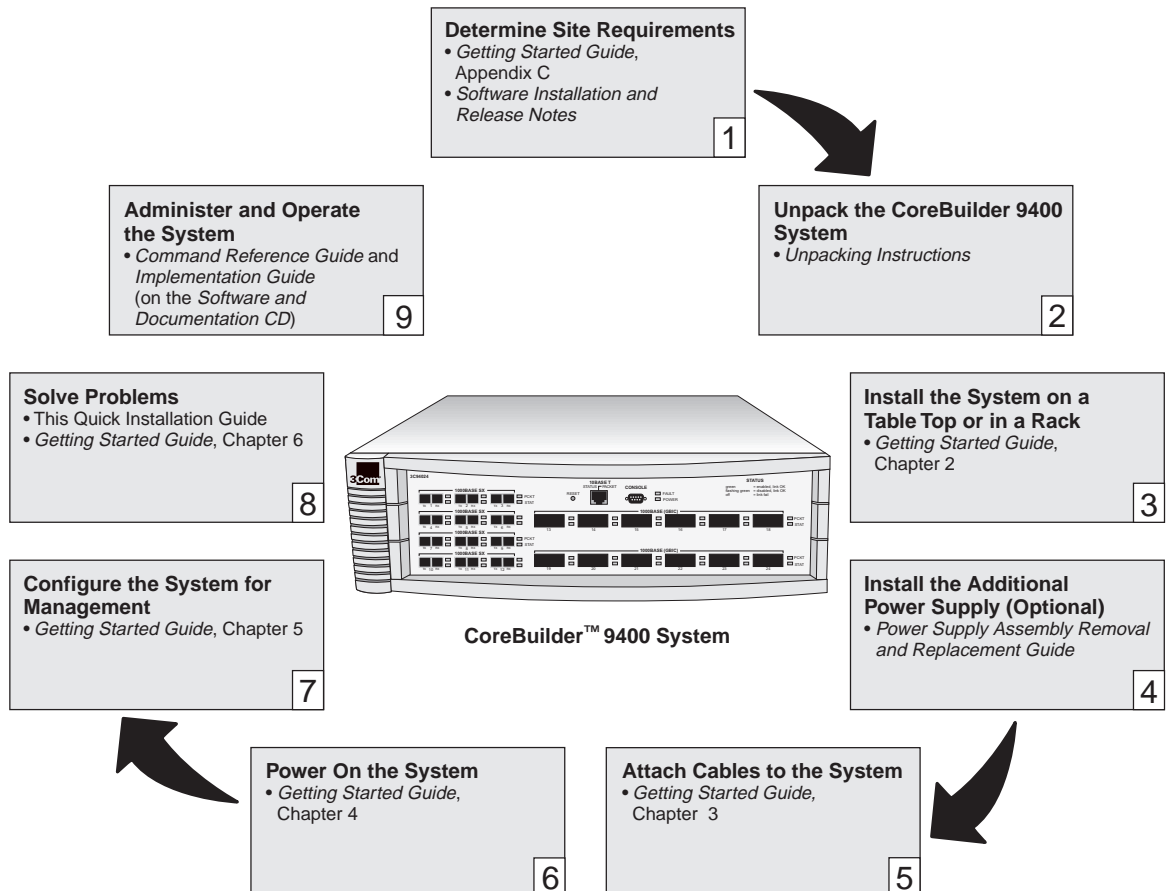
# Quick Installation Guide

For the CoreBuilder™ 9400 System

This guide provides quick procedures for installing one or more of the CoreBuilder™ 9400 systems. The guide is intended for the network administrator who has experience installing communications equipment.

## System Setup Tasks

To get your system and its components to the state at which you can connect to your network, follow the setup tasks in the figure. If you need more information on each setup task, see the related sections in this guide or complete details in the indicated documents.



## Installing the System

*Audience*

To install the CoreBuilder™ 9400 system in your network, follow the steps in this section.

This guide is intended for **trained technical personnel** only. Do not attempt to install or service a CoreBuilder 9400 if you do not have the proper training. For training information, call 1-800-NET-3COM.

### Determine Site Requirements

1

Install the CoreBuilder 9400 system in an area that meets the requirements in Table 1.

**Table 1** System Site Requirements

Location
<ul style="list-style-type: none"> <li>■ Ambient (room) temperature — 0 to 50 °C (32 to 122 °F)</li> <li>■ Relative humidity — 10% to 95%, noncondensing</li> <li>■ A level surface for system installation</li> </ul>
Power
<ul style="list-style-type: none"> <li>■ Power supply — 327 Watts</li> <li>■ Power source location — AC or DC power source within approximately 1.8 meters (6 feet)</li> <li>■ Input voltage options — 100 to 240 VAC</li> <li>■ Current rating — 2.7 amperes at 120 volts</li> </ul>

If you need more information on site requirements, see Appendix A and Appendix C in the *CoreBuilder 9400 Getting Started Guide*.

### Unpack the System

2

Check the packing slip to ensure that you have all of the components that you ordered.

The system is shipped with one power supply installed. If you have ordered a second power supply for the system, be sure that it is available for installation.

**Install the System**

3

**Before You Begin**

Before you install the system:

- Move the system close to where you plan to install it.
- Have a Number 2 Phillips screwdriver available.
- Have the hardware kit available. See Table 2.

**Table 2** System Hardware Mounting Kit

Item	Qty	To use in
Rubber feet (self-adhesive)	4	Installing the system on a table top
Mounting brackets	2	Installing the system in the distribution rack
8-32 x 1/2 Phillips flat-head screws	8	Installing distribution-rack mounting brackets
10-32 x 1/2 Phillips pan-head screws	4	Installing the system in the distribution rack

Determine whether you are installing the system on a tabletop or in a distribution rack.

For complete installation instructions, see Chapter 2 in the *CoreBuilder 9400 Getting Started Guide*.



**WARNING:** Hazardous energy exists within the system. Always be careful to avoid electric shock or equipment damage. Many installation and troubleshooting procedures should be performed only by trained technical personnel.

**Install Optional Power Supply**

4

The system operates using a single power supply assembly and is shipped with one power supply installed. You can add a second power supply assembly to the system. The additional power supply is orderable and shipped separately.



**WARNING:** Removal or replacement of a power supply is to be performed by trained technical personnel only. Do not attempt to remove or replace a power supply if you do not have the proper training from 3Com. For training information, call 1-800-NET-3COM.

For installation instructions, see the *Power Supply Assembly Removal and Replacement Guide* or Appendix B in the *CoreBuilder 9400 Getting Started Guide*.

**Attach the Cables**

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Cable your system for connecting these elements to your network:

- 1000BASE-SX ports
- 1000BASE GBIC ports
- 10BASE-T out-of-band port connector
- Console port



**CAUTION:** You **may not** want to connect the network cables before you power on the system if you need to configure trunks, resilient links, or the Spanning Tree Protocol (STP). To avoid bridge loops, you should configure trunks, resilient links, and STP using the Administration Console before you connect the cables (step 5) and after you power up the system (step 6).

For information on cabling ports, see Chapter 3 in the *CoreBuilder 9400 Getting Started Guide*.

**Power On the System**

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Place the system near an easily accessible power outlet. You can power down the system only by removing the power cord from the power source or from the system itself. To get your system powered up and ready to operate:



To view possible error messages in the Administration Console while the system is running power-up diagnostics, connect a terminal, workstation, or PC with terminal emulation software to the system's Console port.

- 1 On the back panel, slide the power supply latch up and insert the power cord into the power receptacle.



**CAUTION:** To prevent a possible fire hazard, be sure to fully insert the power cord.

- 2 Plug the other end of the power cable into a power source outlet.
- 3 If your system contains dual power supplies, perform step 1 and step 2 for the second power supply.

**LEDs and Power-up Diagnostics**

The system runs diagnostic software at power up. This software verifies that every component in the system is operating correctly. If any component fails during power-up diagnostics, the system fails to power up.

For diagnostic messages, view the system configuration display in the Administration Console (if you have connected the system to a workstation).

During power up, the system and port LEDs provide information, as described in Table 3. See Table 6 and Table 7 for how to troubleshoot LED activity.

**Table 3** System and Port LEDs

LED	Name	Type	Color Indications	Description
<b>Power</b>	—	System Power	Green	The system is powered on.
			No light	The system is powered off.
<b>Fault</b>	—	System Fault	Yellow	The system has failed diagnostics, or some other operational error has occurred.
			No light	The system is operational.
<b>Pckt</b>	Packet	Port Activity	Yellow	Data is being transmitted or received by the port.
			Blinking yellow	Data is being transmitted or received by the port.
			No light	Data is not being transmitted or received by the port.
<b>Stat</b>	Status	Port Link	Green	The port is online.
			Blinking green	The port is online but disabled.
			No light	The port is off-line.

**Configure System  
for Management**

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Your system is shipped from the factory with the software installed and IEEE 802.1d Spanning Tree Protocol *disabled*. To configure your system for your particular networking environment (including setting up SNMP), you must first establish management access. See Chapter 5 in the *CoreBuilder 9400 Getting Started Guide*.

You can manage your system locally through a terminal connection or remotely using an IP or modem connection. Table 4 describes the access mechanisms.

**Table 4** Management Access Mechanisms

<b>Access Mechanism</b>	<b>Access Description</b>	<b>Interface</b>
Terminal	Connect directly to the Administration Console and stay attached during system reboots	Console port
Modem	Access the Administration Console from remote sites	Console port
IP	<ul style="list-style-type: none"> <li>■ Access the Administration Console out-of-band with the <i>rlogin</i> or <i>telnet</i> commands.</li> </ul>	Ethernet 10BASE-TX out-of-band port
	OR	
	<ul style="list-style-type: none"> <li>■ Access the Administration Console in-band with the <i>rlogin</i> or <i>telnet</i> commands. Or use an external SNMP management application to communicate with the CoreBuilder 9400 SNMP agent.</li> </ul>	Gigabit Ethernet port assigned to an IP interface
	OR	
	<ul style="list-style-type: none"> <li>■ You can also use Web management interface using Netscape or Internet Explorer</li> </ul>	

For more information on access mechanisms, see Chapter 5 in the *CoreBuilder 9400 Getting Started Guide*.

## Defining an Interface

You can manage your system in one of these ways:

- **Out-of-band** — Uses a dedicated network for management data. You configure a system management interface for the Ethernet 10BASE-T out-of-band port.
- **In-band** — Manages the system and its attached LANs over the same network that carries your regular data traffic. You configure an IP address on any Gigabit Ethernet port.
- **Modem** — Uses a modem to establish a connection between your current Administration Console session and the Console port. When you have configured the modem from the Administration Console menus, the Administration Console appears to be directly connected to the external modem.

These management access mechanisms are described briefly next and more completely in the *CoreBuilder 9400 Implementation Guide*.

***Out-of-band Management.*** To manage your network out-of-band:

- 1 From the top level of the Administration Console, enter:  
**ip interface define**
- 2 Enter the IP address for the out-of-band port.
- 3 Enter the subnet mask of the subnetwork to which you want to connect the interface. Press Enter to accept the default subnet mask.
- 4 Enter **system** as the interface type.

***In-band Management*** To manage your network in-band:

- 1 From the top level of the Administration Console, enter:  
**ip interface define**
- 2 Enter the IP address of the interface.
- 3 Enter the subnet mask of the subnetwork to which you want to connect the interface. Press Enter to accept the default subnet mask.
- 4 Enter **vlan** as the interface type and Enter the VLAN interface index.

For more information about configuring VLANs, see the *Command Reference Guide* and the *Implementation Guide* for your system. These documents are on the *Software and Documentation CD*.

Solve  
Problems

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This section explains how to identify and correct system problems and suggests some things that you can do if you cannot resolve a problem.

**Table 5** Troubleshooting Power Failures

Symptom	Possible Sources of Problem and Steps to Take
Power failures System does not power up.	<p>Possible sources of problem:</p> <ul style="list-style-type: none"> <li>■ System is not receiving power.</li> <li>■ Power supply has malfunctioned.</li> </ul> <p>Recommended actions:</p> <ol style="list-style-type: none"> <li>1 Verify that the building's power outlet has power.</li> <li>2 Check that the power cord is firmly plugged into the system and into the building's power outlet.</li> <li>3 Try another power cable.</li> <li>4 If the system still does not operate, unplug the system and contact your service representative or 3Com Technical Support.</li> </ol>

**Table 6** Troubleshooting Abnormal Status on System LEDs

LED Status	Possible Sources of Problem and Steps to Take
<b>Power</b> LED does not light.	<p>Possible source of problem:</p> <ul style="list-style-type: none"> <li>■ System failure</li> </ul> <p>Recommended actions:</p> <ol style="list-style-type: none"> <li>1 Shut down the system by disconnecting the power plug.</li> <li>2 Call your service representative or 3Com Technical Support.</li> </ol>
<b>Fault</b> LED blinks yellow.	<p>Possible source of problem:</p> <ul style="list-style-type: none"> <li>■ Diagnostic software is not running.</li> </ul> <p>Recommended actions:</p> <ol style="list-style-type: none"> <li>1 Check the Administration Console display for diagnostic messages.</li> <li>2 Call your service representative or 3Com Technical Support.</li> </ol>

**Table 7** Troubleshooting Abnormal Activity on the Port Status LEDs

LED Status	Possible Sources of Problem and Steps to Take
<b>Pckt</b> LED does not light.	Possible source of problem: <ul style="list-style-type: none"><li>■ Software error</li></ul> Recommended action: <ul style="list-style-type: none"><li>■ Check the Administration Console display for diagnostic messages.</li></ul>
<b>Stat</b> LED does not light.	Possible sources of problem: <ul style="list-style-type: none"><li>■ System does not recognize a connection to the port.</li><li>■ Cabling is not fully attached to the port.</li><li>■ Cabling to the port is faulty.</li><li>■ If a GBIC port is affected, the transceiver is not properly seated or is defective.</li></ul> Recommended actions: <ol style="list-style-type: none"><li>1 Verify that all cables are firmly plugged into both the affected port and the attached device.</li><li>2 If a GBIC port is affected, verify that the transceiver is properly seated. If the transceiver is properly seated, try another transceiver.</li><li>3 Test for faulty cables. When the problem is corrected, the LED lights green.</li><li>4 If the LED does not light, contact your service representative or 3Com Technical Support.</li></ol>

## Technical Support

If you experience system problems that are not addressed in this guide, contact your service representative or 3Com Technical Support. Before you call, gather the following information and have it available:

- System type and serial number
- Maintenance agreement, or the purchase date and the warranty information from the last pages of the *CoreBuilder 9400 Getting Started Guide*
- Software revision number
- Brief description of the problem

Some of this information can be viewed in the **system display** feature in the Administration Console. See the *Command Reference Guide* on the *Software and Documentation CD* for more information.

For information on where to call, see *Appendix D* in the *CoreBuilder 9400 Getting Started Guide*.

**Administer and Operate System**

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For information on how to administer and operate the CoreBuilder 9400, see the *Implementation Guide* and *Command Reference Guide* on the *Software and Documentation CD* and the *Software Installation and Release Notes*.



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