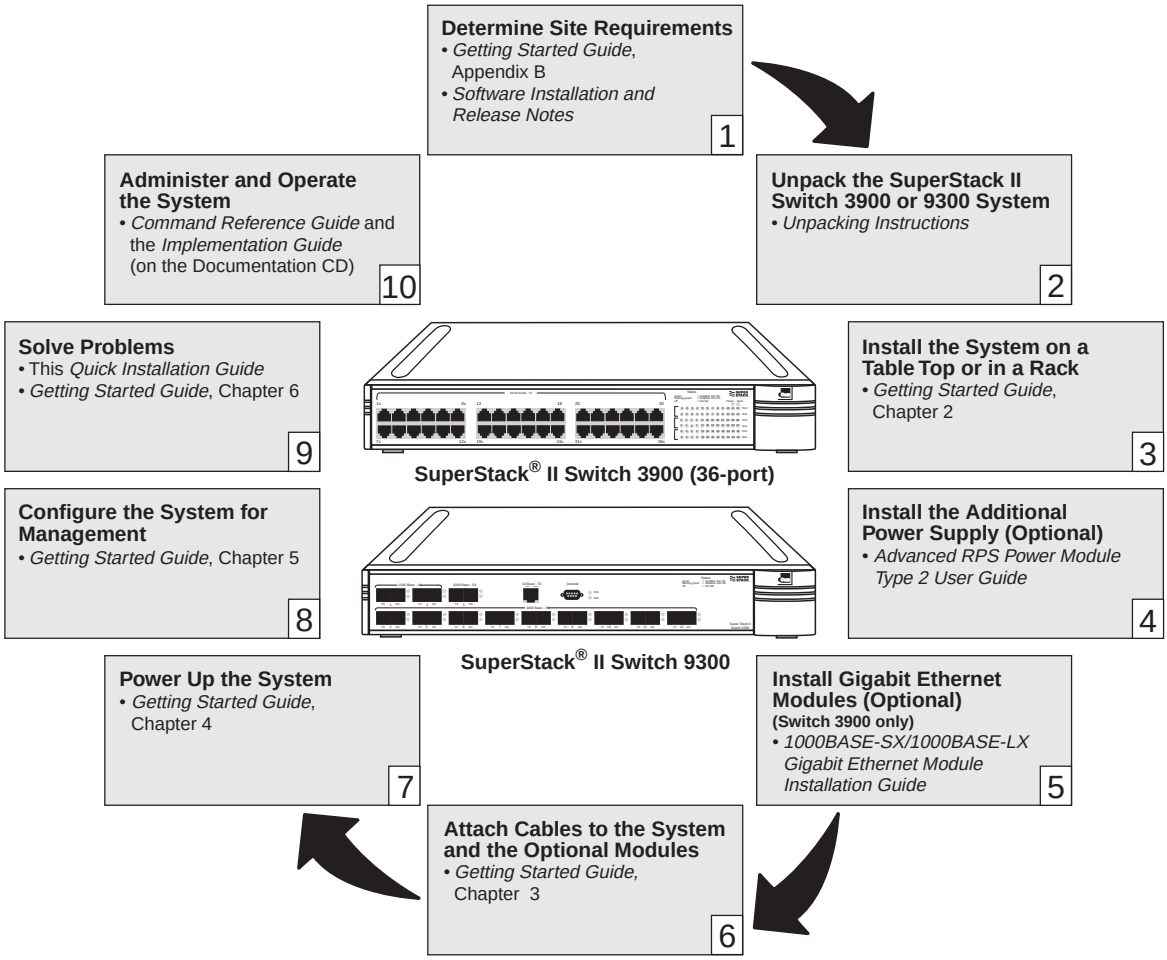
Quick Installation Guide

For the SuperStack® II Switch 3900 and Switch 9300 Systems

This guide provides quick procedures for installing one or more of the SuperStack® II Switch 3900 and the SuperStack® II Switch 9300 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

To install the SuperStack II Switch 3900 or Switch 9300 system in your network, follow the steps in this section.

Audience

This guide is intended only for **trained technical personnel**. Do not attempt to install or service a SuperStack II Switch 3900 or Switch 9300 if you do not have the proper training. For training information, call 1-800-NET-3COM in the United States and Canada. For training information elsewhere, visit the 3Com website at www.3com.com.

WARNING: *For your safety and to ensure adequate cooling airflow, keep blank faceplates over any empty slots on the Switch 3900.*

Determine Site Requirements 1

Install the SuperStack II Switch 3900 or Switch 9300 system in an area that meets the requirements in Table 1.

Table 1 System Site Requirements

Location
■ Ambient (room) temperature — 0 to 50 °C (32 to 122 °F)
■ Relative humidity — 10% to 90%, noncondensing
■ A level surface for system installation
Power
■ Power supply — 100 to 240 VAC
■ Power source location — AC or DC power source within approximately 1.8 meters (6 feet)
■ Input voltage options — 100 to 120 VAC or 200 to 240 VAC
■ Current rating — 1.3 amperes at 120 volts

For more information on site requirements, see Appendix B in the *Getting Started Guide* for your system.

Unpack the System 2

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

The system is shipped with one internal power supply. If you have ordered a redundant power supply or uninterruptible power supply for the system, have it 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 1 Phillips screwdriver available.
- Have the hardware kit that comes with the system available. See Table 2.

Table 2 Hardware Kit

Item	Qty	Use in
Rubber feet (self-adhesive)	4	Installing the system on a table top
Mounting bracket	2	Installing the system in a distribution rack
M4 x 10 Phillips pan-head screws	6	Installing the system in a 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 *Getting Started Guide* for your system.

WARNING: *Hazardous energy exists within the SuperStack II Switch 3900 and Switch 9300 systems. Follow instructions in the* Getting Started Guide *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 internal power supply.

- You can connect an uninterruptible power supply (UPS).
- You can also connect a redundant power supply (RPS).

  These additional power supplies are orderable and shipped separately. Contact your network supplier.

  For instructions on how to install the RPS, see the *Advanced RPS Power Module Type 2 User Guide*.

Install Modules (Switch 3900 only) 5

If you have ordered one or two additional Gigabit Ethernet modules for your SuperStack II Switch 3900 system, you are now ready to install the modules.

CAUTION: *Electrostatic discharge (ESD) can damage components on a module, causing complete or intermittent failures. ESD damage occurs when the module is improperly handled. When handling modules, be sure to read and follow the ESD safety information provided in the* Module Installation Guide*.*

For installation instructions, see the *1000BASE-SX/1000BASE-LX Gigabit Ethernet Module Installation Guide* that is shipped with the module.

Attach the Cables 6

Cable your system for connecting these elements to your network:

- 10/100BASE-T connectors (3900 only)
- 1000BASE-SX or LX connectors (3900 and 9300)
- 10BASE-T out-of-band port connector (9300 only)
- Console port (3900 and 9300)

For information on cabling ports, see Chapter 3 in the *Getting Started Guide* for your system.

Power Up the System 7

Place the system near an easily accessible power outlet because the only way that you can power the system up or down is to insert or remove the power cord from the power source. To get your system powered up and ready to operate:

1. For the Switch 3900, verify that each unused slot is covered with a blank faceplate.

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.

2. On the back panel of either the Switch 3900 or the Switch 9300, plug the power cord into the power receptacle.

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

3. Plug the other end of the power cord into a power outlet.

LEDs and Power-up Diagnostics

Your 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 either fails to power up or, for the Switch 3900, it prevents faulty modules from coming online.

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

For the Switch 3900, when the system comes up, verify which modules, if any, have failed diagnostics by checking the module LEDs.

The system and port LEDs are described in Table 3.

Table 3 System and Port LEDs

LED	Name	Type	Color Indications	Description
Power	—	System power	Green	The system is powered up.
			No light	The system is powered down.
Fault	—	System fault	Yellow	The system has failed diagnostics or some other operational error has occurred.
			Blinking yellow	Diagnostic software is not running.
			No light	The system is operational.
Pckt	Packet	Port activity	Yellow	Data is passing through the port.
			Blinking yellow	Data is passing through the port.
			No light	Data is not passing through the port.
Stat	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 8

Your system is shipped from the factory with IEEE 802.1D bridging set to disabled. To configure system features for your particular networking environment, you must first establish management access.

Initially, you can only manage your system locally through a direct terminal connection to the Console port. You use this interface to configure additional access mechanisms, as shown in Table 4.

For more information on access mechanisms, see Chapter 6 in the *Getting Started Guide* for your system or Chapter 2 in the *Implementation Guide*.

Table 4 System Management Access Mechanisms

Access Mechanism	Access Description	Interface
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	■ Access the Administration Console using the *rlogin* or *Telnet* commands ■ Use an external SNMP management application (such as the 3Com Transcend® applications) to communicate with your system's SNMP agent ■ Use the Web Management suite of applications that is embedded in the software	Ethernet port that is assigned an IP address

Defining an Interface

Once you have configured initial access, you can manage your system in one of these ways:

- **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 Ethernet port.
- **Out-of-band (9300)** — Uses a dedicated network for management data. You configure a system management interface for the Ethernet 10BASE-T out-of-band port and assign it an IP address.

- **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 menu system, the Console appears to be directly connected to the external modem.

These management access mechanisms are described briefly next and more completely in the *SuperStack II Switch 3900 and Switch 9300 Implementation Guide*.

In-band Management (Switch 3900 and 9300). 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. Press Return or Enter to accept the default or current value.
4. Enter the index number of the VLAN that you want to associate with the IP address.

   For more information about configuring VLANs, see the *SuperStack II Switch 3900 and Switch 9300 Implementation Guide*.

Out-of-band Management (Switch 9300 only). 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. Press Return or Enter to accept the default or current value.
4. Enter **`system`** as the interface type.

Solve Problems 9

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

Symptom	Possible Sources of Problem and Steps to Take
Power failure System does not power up.	Possible sources of problem: ■ System is not receiving power. ■ Power supply has malfunctioned. Recommended actions: **1** Verify that the building's power outlet has power. **2** Check that the power cord is firmly inserted into the system and into the building's power outlet. **3** If you are using an RPS or UPS, check that it is firmly plugged into the building's power outlet. **4** Try another power cable, RPS, or UPS. **5** If the system still does not operate, remove the power cord from the system and contact your network supplier or 3Com Technical Support.

LED Status	Possible Sources of Problem and Steps to Take
Power LED does not light.	Possible source of problem: ■ System failure Recommended actions: **1** Shut down the system by removing the power cord. **2** Contact your network supplier or 3Com Technical Support.
Fault LED blinks yellow.	Possible source of problem: ■ Diagnostic software is not running. Recommended actions: **1** Check the Administration Console display for diagnostic messages. **2** Contact your network supplier or 3Com Technical Support.

LED Status	Possible Sources of Problem and Steps to Take
Pckt LED does not light.	Possible sources of problem: ■ Software error has occurred. ■ Traffic is disabled in the software. Recommended action: ■ Examine the Administration Console display for diagnostic messages. ■ Verify that the port is not disabled by Spanning Tree. ■ Contact your network supplier or 3Com Technical Support.
Stat LED does not light.	Possible sources of problem: ■ System does not recognize a connection to the port. ■ Cabling is not fully attached to the port. ■ Cabling to the port is faulty. Recommended actions: **1** Verify that all cables are firmly inserted into both the system's affected port and the attached device. **2** Test for faulty cables. When the problem is corrected, the LED lights green. **3** If the LED does not light, contact your network supplier or 3Com Technical Support.

Technical Support

If you experience system problems that are not addressed in this guide, contact your network supplier 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 page of the *Getting Started Guide* for your system
- Release number of installed software
- Brief description of the problem

Some of this information can be viewed in the system display in the Administration Console. See the *Command Reference Guide* for more information.

For information on where to call, see the Technical Support section of the *Software Installation and Release Notes* or the 3Com Web site: www.3com.com.

Administer and Operate System 10

For information on how to administer and operate the SuperStack II Switch 3900 and Switch 9300, see the *Command Reference Guide,* the *SuperStack II Switch 3900 and Switch 9300 Implementation Guide,* the *Web Management User Guide* on the Documentation CD, and the *Software Installation and Release Notes*.

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