3Com

Installation Guide

NJ100 Network Jack

3CNJ100
4-port 10/100 Mbps Unmanaged Ethernet Switch

http://www.3com.com/
http://www.3com.com/productreg

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Installation Guide

The 3Com Network Jack is a 4-port, unmanaged Ethernet switch that fits into any standard electrical wall outlet or data port opening.

The Network Jack brings switching capabilities to any single port on an Ethernet network by allowing up to four networking devices, such as computers, printers, Voice Over IP (VoIP) telephones, and scanners, to be connected to the network via one Ethernet port. Optional connectors are also available that allow up to two additional devices to be connected to separate network segments through the same Network Jack.

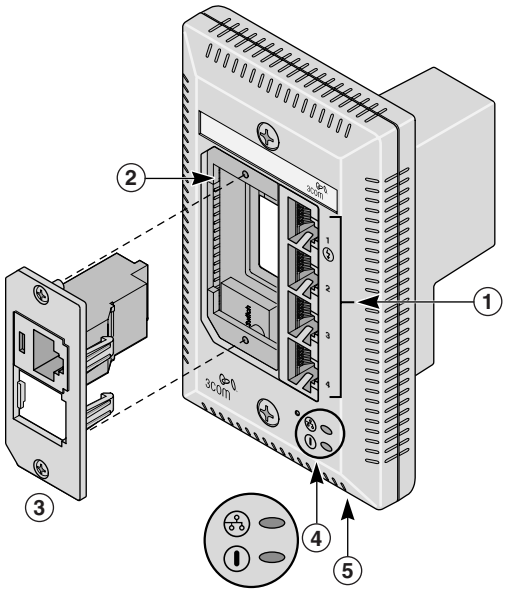
The Network Jack needs no software to operate and little or no configuration. All ports feature 10/100 Mbps auto-negotiation, which configures the Network Jack for 10 Mbps or 100 Mbps connections automatically.

Power to the Network Jack can be provided one of the following ways:

- Over the network via an integrated switch that supports Power Over Ethernet; specifically, a switch that is compatible with Capacitive Power Discovery Process (24V or 48V) or IEEE 802.3af-compatible Power Over Ethernet. Power Over Ethernet, also known as in-line power, is a feature that provides power onto an Ethernet cable, allowing a device to receive both data and power from the same network cable.
- Over the network via an optional single-port or multi-port Ethernet power supply. See "Setting up the Power Supply" on page 10 for more information.
- Locally via an optional local power supply. See "Using the 3Com Local Power Supply" on page 12 for more information.

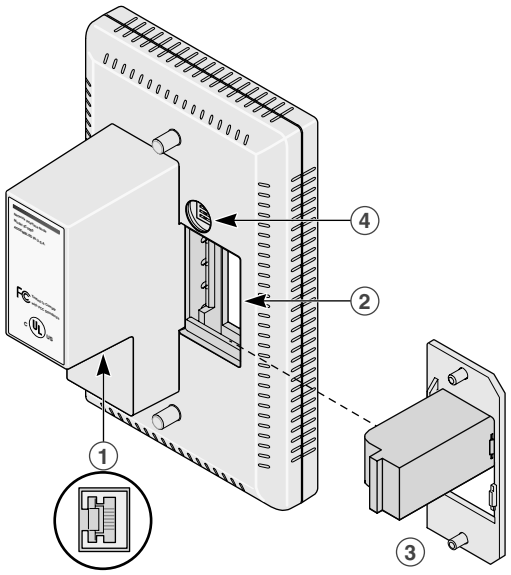
About the Network Jack

The following diagram shows the front view of the Network Jack.



1	Switched ports	Allow up to four devices to be connected to the network. Port number 1 is also a power-forwarding port; it can be used with any standard networking device as well as to power a VoIP telephone on a network that uses IEEE 802.3af-compatible Power Over Ethernet.
2	Slot for adapter plate	Can be fitted with an adapter plate, which can be installed with up to two pass-through ports.
3	Adapter plate with installed pass-through port connector	Can be used for voice or other networking applications. The port bypasses the functionality of the switch, allowing you to set up a connection to a separate network segment or to connect to an analog or digital PBX telephone. The adapter plates are available from 3Com. However, you must purchase the connectors from the manufacturer. See "Installing the Adapter Plate and Pass-Through Ports" on page 15 for more information.
4	LEDs	 Indicates network connection status.  Indicates power status.
5	Power socket	Can be used to power the Network Jack with a local power supply (available for purchase from 3Com); required if your network does not support Power Over Ethernet.

The following diagram shows the back view of the Network Jack.



1	Ethernet uplink port	Connects the Network Jack to the network. Make sure the port on the network switch to which the Network Jack is connected is configured as a standard MDI-X port.
2	Slot for adapter plate	Can be fitted with an adapter plate, which can be installed with up to two pass-through ports.
3	Adapter plate with installed pass-through port connector	Connects the installed pass-through port to the network.
4	Dip switches	Determine the type of Power Over Ethernet (Capacitive Power Discovery Process 24V or 48V or IEEE 802.3af) the Network Jack uses. Setting the dip switches is required only if your network supports Power Over Ethernet, or if you are using a multi-port Ethernet power supply. See "Setting the Power Over Ethernet Dip Switches" on page 13 for instructions.

Before You Begin

Before you begin installation, register your product at: www.3com.com/productreg.

The Network Jack is available in single- and 20-packs. Before you begin the installation, make sure you have the following items, which are included with the Network Jack:

- 6x32 screws (2 per Network Jack) for mounting the Network Jack to the wall or office cubicle.
- RJ-45 coupler cable (1 per Network Jack) for connecting the Ethernet cable from the network to the Network Jack (required only if your network cable is terminated with a female RJ-45 connector).
- Installation guide (1 per package).

Additionally, the following items are shipped with the single pack:

- Adapter plates for installing connectors to use as pass-through ports. The adapter plates accommodate connectors from suppliers including:
  - Panduit (RJ-45 and RJ-11)
  - Avaya (RJ-45 and RJ-11)

NOTE: The connectors for the adapter plates must be purchased from the manufacturer. For a list of supported connectors, go to www.3com.com/.

- Adapter plate screws (2) for mounting the adapter plate to the Network Jack.

Obtaining Optional Components

The Network Jack works with the following optional components, all of which are available from 3Com. Order online at www.3com.com or by calling 1-877-949-3266.

Component	Purpose	3C Number(s)
Adapter plates	For installing pass-through port connectors of your choice that allow a direct connection to another network segment or for connecting an analog or digital PBX telephone.	3CNJAP-PA-20 3CNJAP-AV-20
Extension ring	For ensuring that the Network Jack is properly mounted to a cubicle; required if the cubicle opening: ■ Has a depth of fewer than 1.5 inches. ■ Does not support the NEMA-WD6 standard. ■ Does not have pre-drilled screw holes for standard mounting.	3CNJEXTRING
Single-port Ethernet power supply	For providing Power Over Ethernet to locally power a single Network Jack.	3CNJPSE
Multi-port Ethernet power supply	For providing Power Over Ethernet to power up to 24 Network Jacks.	3CNJPSE24 3C10220 3C10222
Local power supply	For locally powering a single Network Jack; required if your network does not support Power Over Ethernet.	3CNJPSL

Component	Purpose	3C Number(s)
VoIP telephone power cable	For powering a VoIP telephone on a network that uses Capacitive Power Discovery Process-compatible Power Over Ethernet.	Check the 3Com web site
Network Jack Tester	For verifying the Network Jack installation; useful if installing multiple Network Jacks.	3CNJTESTER

Installing the Network Jack

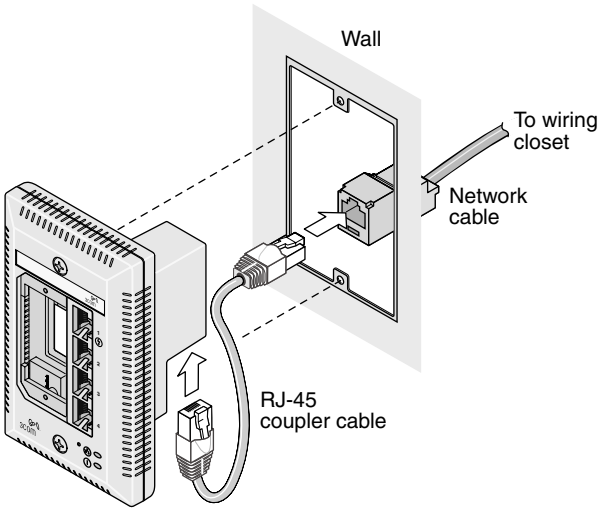
Installing the Network Jack consists of the following steps:

1. Set up the power supply (page 10).
2. Set the Power Over Ethernet dip switches (page 13; optional, required only if your network supports Power Over Ethernet or if you are using a single-port or multi-port power supply).
3. Install the adapter plate and pass-through ports (page 15; optional).
4. Plan the installation (page 17).
5. Set up the network cabling at your site (page 19).
6. Connect the Network Jack to the network (page 19).
7. Mount the Network Jack to the wall or office cubicle (page 22).

8 Connect the local power supply (page 23; optional) not required if your network supports Power Over Ethernet or if you are using a single-port or multi-port power supply).

9 Connect network devices to the Network Jack (page 23).

The following diagram displays an overview of the recommended installation, where the Network Jack is being connected to an Ethernet network cable that is terminated with a female RJ-45 connector. Detailed installation instructions are included in the sections that follow.



Setting up the Power Supply

Power to the Network Jack can be supplied one of the following ways:

- Over the network via an integrated switch that supports Power Over Ethernet.
- Over the network via a multi-port Ethernet power supply.
- Over the network via a single-port Ethernet power supply.
- Locally via a 3Com local power supply.

Before you begin the installation, determine which type of power supply the Network Jack will use.

NOTE: For a list of power supplies that support the Network Jack, go to www.3com.com/.

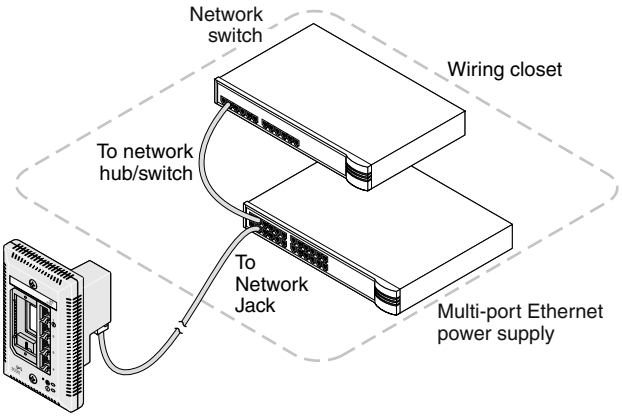
Using an Integrated Switch with Power Over Ethernet

To use Power Over Ethernet, you must have a switch on the network that has Power Over Ethernet integrated into it. You must then determine if it is compatible with Capacitive Power Discovery Process (24V or 48V) or IEEE 802.3af.

Using a Multi-port Ethernet Power Supply

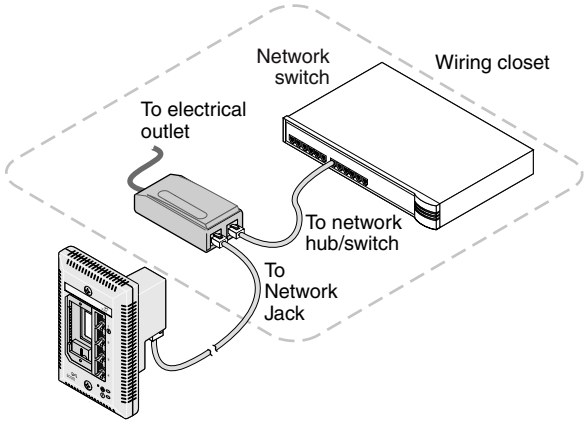
To use a multi-port Ethernet power supply, you must connect the power supply to your network, as shown in the illustration on page 11.

The multi-port Ethernet power supply from 3Com connects to an existing Ethernet or Fast Ethernet infrastructure with standard Category 5 or Category 5e UTP cabling, and powers up to 24 Network Jacks. See "Obtaining Optional Components" on page 7 for ordering information. For complete installation instructions, see the multi-port Ethernet power supply documentation.



Using a Single-port Ethernet Power Supply

To use a single-port power supply, connect the power supply to the network hub or switch and to the Network Jack, as shown in the following illustration. See "Obtaining Optional Components" on page 7 for ordering information. For complete installation instructions, see the single-port Ethernet power supply documentation.



Using the 3Com Local Power Supply

To use the local power supply, make sure you have an electrical outlet near the site where the Network Jack will be installed.

Setting the Power Over Ethernet Dip Switches

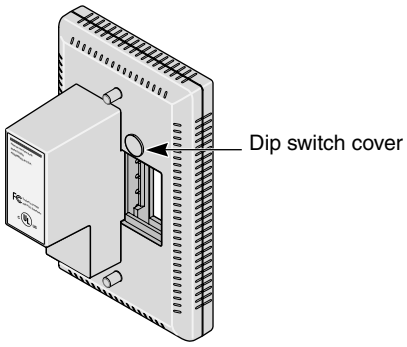
If your network switch or power supply supports Power Over Ethernet, you must set the dip switches on the Network Jack to the appropriate setting: Capacitive Power Discovery/24V, Capacitive Power Discovery/48V, or IEEE 802.3af.

NOTE: If you are not using Power Over Ethernet to power the Network Jack, skip this section. Go to "Installing the Adapter Plate and Pass-Through Ports" on page 15 to continue.

WARNING: Before setting the dip switches, make sure that power to the Network Jack is off.

Do not change dip switches 1 and 2 from their factory default settings (OFF). Changing these settings may result in performance degradation.

1 On the back of the Network Jack, remove the dip switch cover.



2 Set the appropriate dip switches (labeled 3 and 4) for the type of Power Over Ethernet supported. The default setting is IEEE 802.3af-compatible Power Over Ethernet.

Power Over Ethernet Supported	Dip Switch Numbers	Setting
Capacitive Power Discovery/24V Ethernet Power Source	4 (ON) 3 (ON)	
Capacitive Power Discovery/48V Ethernet Power Source	4 (ON) 3 (OFF)	
IEEE 802.3af-compatible Power Over Ethernet	4 (OFF) 3 (OFF)	

3 Replace the dip switch cover.

Installing the Adapter Plate and Pass-Through Ports

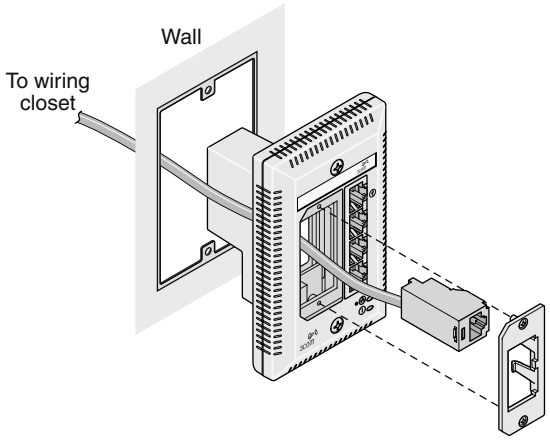
If you want to install the blank adapter plate, or if you want to use pass-through ports for connecting an analog or PBX digital telephone or for setting up a connection to a separate network segment, purchase supported connectors and install them on the appropriate Network Jack adapter plate (included with the single pack; available for purchase separately with the 20-pack).

For a list of connectors that are supported with the Network Jack adapter plates, go to www.3com.com.

NOTE: If you are not planning on installing the adapter plate and pass-through ports, skip this section. Go to "Planning the Installation" on page 17 to begin the installation.

1 Pull the network cable(s) from the wiring closet to the location of the Network Jack.

2 Thread the network cable(s) through the empty slot on the Network Jack.



3 Terminate the end of the network cable(s) with the connector(s) you purchased separately.

Refer to the connector manufacturer's instructions for terminating the cable. Be sure to test end-to-end system functionality and verify that it is working.

4 Snap the connector(s) into the appropriate adapter plate.

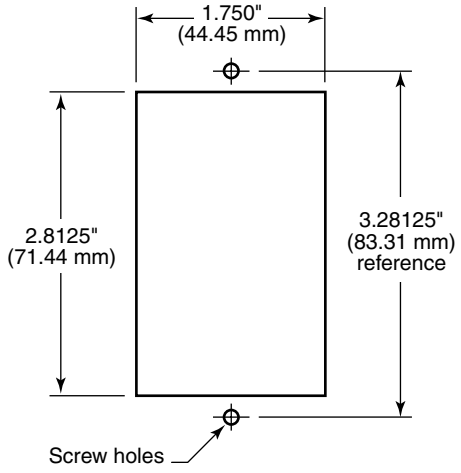
Each adapter plate is labeled with the name of a connector's manufacturer. Be sure to use the adapter plate that matches the manufacturer of your connector(s).

5 Mount the adapter plate to the Network Jack using the two adapter plate screws provided.

Planning the Installation

When installed, the back of the Network Jack extends into a wall or cubicle opening 1.5 inches. Because the depth of some wall and cubicle openings differ, observe the following requirements and recommendations before installing the Network Jack:

- Make sure the wall or cubicle opening where the Network Jack is being installed complies with the NEMA-WD6 standard, as described below.



- Make sure the distance between the back of the Network Jack and the inside of the wall or cubicle opening is at least 1.5 inches (3 inches is recommended).

NOTE: Some cubicle openings have a depth of 1.2 inches. In this case, install the Network Jack using the extension ring (available for purchase separately; see "Obtaining Optional Components" on page 7) to obtain the minimum 1.5-inch depth.

If installing into a wall junction box, make sure there is enough space between the back of the Network Jack and the inside of the junction box to maintain an acceptable bend radius on the cable. If you encounter interference or need additional clearance between the Network Jack and where it sits inside the junction box, use the extension ring.

- To ensure proper horizontal cabling functionality, adhere to the following network cabling standards during installation:
  - ANSI/TIA/EIA-568
    Commercial Building Telecommunications Cabling Standard
  - ANSI/TIA/EIA-569
    Commercial Building Standard for Telecommunications Pathways and Spaces

Setting up the Network Cabling at Your Site

The network cabling at your site (from the wiring closet to the wall or cubicle opening) may already be installed. If it is not, install the cabling following these general guidelines.

CAUTION: It is recommended that a professional cable installer performs these procedures. Be sure to adhere to local safety and regulatory codes during the cable installation.

1. Connect one end of an Ethernet cable to your network. Usually, this connection is done in a network wiring closet, via the patch panel.
2. Terminate the other end of the cable at the location where the Network Jack is being installed (using either a female or male RJ-45 connector).

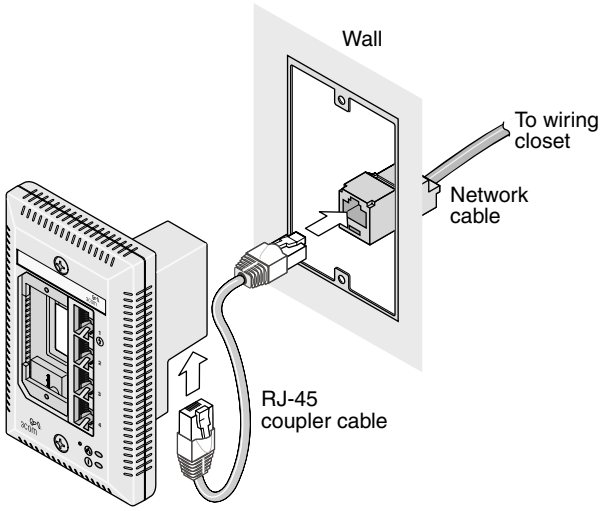
   Refer to the connector manufacturer's instructions for terminating the cable. Be sure to test the connector and verify it is working.

Connecting the Network Jack to the Network

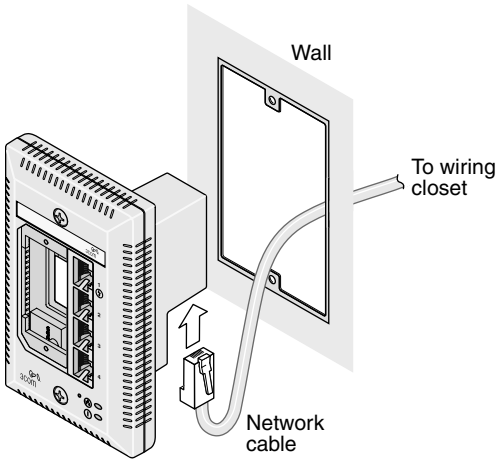
The method for connecting the Network Jack to the network is determined by how your network cable is terminated (as described in the previous section, "Setting up the Network Cabling at Your Site").

CAUTION: Make sure the port on the network switch to which the Network Jack is connected is configured as a standard MDI-X port.

- If the end of the cable is terminated with a female RJ-45 connector, use the RJ-45 coupler cable included in the package to connect the Network Jack to the network cable (recommended installation.)



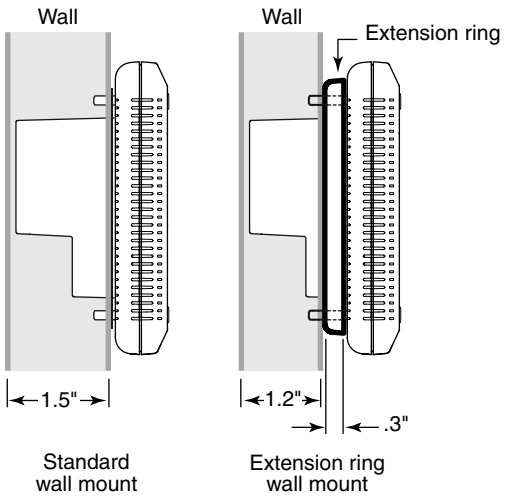
- If the end of the cable is terminated with a male connector, connect the network cable directly into the Ethernet uplink port.



Mounting the Network Jack

After connecting the Network Jack to the network, use the two provided screws to mount the Network Jack in any standard NEMA-WD6 cubicle opening or wall outlet.

If the cubicle or wall opening has a depth of fewer than five inches, does not support the NEMA-WD6 standard, or does not have pre-drilled screw holes, mount the Network Jack using the extension ring, as shown below.



NOTE: Make sure the vents along the edges of the Network Jack faceplate are clear of any obstructions.

Connecting the Local Power Supply (Optional)

If your network does not support Power Over Ethernet, or if you are not using a single-port or multi-port Ethernet power supply, you must purchase a local power supply from 3Com (see "Obtaining Optional Components" on page 7). Plug the local power supply into the power connector located on the bottom of the Network Jack, and then plug it into any standard electrical outlet.

CAUTION: Use the local power supply available from 3Com. Failure to do so may result in damage to the Network Jack, or may result in a hazardous situation.

Connecting Devices to the Network Jack

After the Network Jack is installed and mounted, connect your networking devices (such as computers, printers, etc.) to any of the four switched ports on the front of the Network Jack.

If you installed the adapter plate with pass-through ports, connect the appropriate device(s) to the port(s).

Checking the LEDs

You can verify the Network Jack installation by checking the LEDs.

LED	Description
 (LAN)	■ On—The Network Jack is connected to the network and a link has been established. ■ Off—There is no connection to the network.
 (Power)	■ On—The Network Jack is receiving power (local or via the network). ■ Off—The Network Jack is not receiving power.

Troubleshooting the Network Jack

If you encounter problems with the Network Jack:

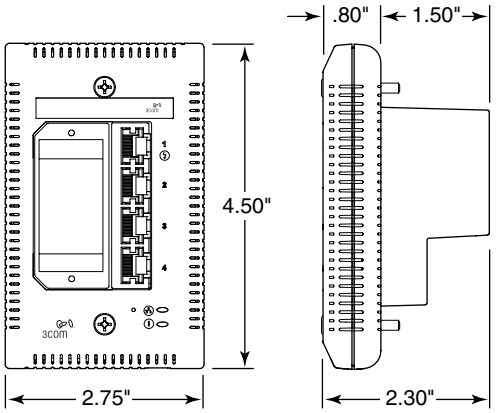
- Verify the Network Jack is receiving power by viewing the Power LED (it should be lit). If the Power LED is not lit, make sure the:
  - Power Over Ethernet dip switches are set correctly (for either Capacitive Power Discovery Process 24V or 48V or IEEE 802.3af), if your network supports Power Over Ethernet. See "Setting the Power Over Ethernet Dip Switches" on page 13 for instructions.

If using Power Over Ethernet, make sure the other end of the network cable is plugged into a switch on the network that has Power Over Ethernet integrated into it, or one that feeds into an external midspan power supply that supports Power Over Ethernet.

- Local power supply is plugged into the Network Jack and into a working electrical outlet, if your network does not support Power Over Ethernet.

- Verify the Network Jack is connected to the network properly by viewing the Link LED (it should be lit). If the Link LED is not lit, make sure the network cable:
  - Is terminated properly. Refer to the connector manufacturer's instructions for terminating the cable. Be sure to test the connector and verify it is working.
  - Has a valid connection to the network.
  - Adheres to proper length and cabling specifications for your network.
- Make sure the port on the switch to which the Network Jack is connected is configured as a standard MDI-X port.

Specifications



Hardware	
Power consumption	5 watts without power forwarding Maximum 13 watts with power forwarding (depending on the device drawing power)
Network Interface	
10 Mbps Ethernet 10BASE-T	Ethernet IEEE 802.3 industry standard for a 10 Mbps baseband CSMA/CD local area network
100 Mbps Ethernet 100BASE-TX	Ethernet IEEE 802.3u industry standard for a 100 Mbps baseband CSMA/CD local area network

Performance	
Auto-negotiation	Communication speed (10 Mbps or 100 Mbps) and duplex mode (full or half) is determined through auto-negotiation with the attached devices. The Network Jack attempts to negotiate the fastest connection possible (100 Mbps full-duplex).
Environment	
Operating temperature	32˚ to 104˚ F (0˚ to 40˚ C)
Storage temperature	-22˚ to 194˚ F (-3˚- to 90˚ C)
Operating humidity	10-90% noncondensing
Storage humidity	10-90% noncondensing
Operating Altitude	8,000 ft
Storage Altitude	20,000 ft
Standards Conformance	
IEEE 802.3 10BASE-T, 100BASE-TX and auto-negotiation	
Power Over Ethernet (Capacitive Power Discovery Process and IEEE 802.3af)	
Power forwarding (IEEE 802.3; 6 watts, 48 volts)	

Features	
Power Over Ethernet	Compatible with IEEE 802.3af and Capacitive Power Discovery Process
Local power supply	Required for networks that do not support Power Over Ethernet
Voice Over IP (VoIP)	Compatible with VoIP standard.
Power forwarding	Port number 1 can be used with any standard networking device as well as to power a VoIP telephone on a network that uses IEEE 802.3af-compatible Power Over Ethernet.

Contacting Technical Support

3Com provides easy access to technical support information through a variety of services. This appendix describes these services.

Information contained in this appendix is correct at time of publication. For the most recent information, 3Com recommends that you access the 3Com Corporation World Wide Web site.

One-Year Free Installation Support

3Com provides free installation and troubleshooting telephone support for this product for one (1) year from the date of purchase.

Hours of operation are subject to change. See "Support from 3Com" on page 31.

Online Technical Services

3Com offers worldwide product support 24 hours a day, 7 days a week, through the following online systems:

- World Wide Web site
- 3Com Knowledgebase Web Services
- 3Com FTP site

World Wide Web Site

To access the latest networking information on the 3Com Corporation World Wide Web site, enter this URL into your Internet browser: http://www.3com.com/

This service provides access to online support information, such as technical documentation and a software library, as well as support options that range from technical education to maintenance and professional services.

3Com Knowledgebase Web Services

This interactive tool contains technical product information compiled by 3Com expert technical engineers around the globe. Located on the World Wide Web at http://knowledgebase.3com.com, this service gives all 3Com customers and partners complementary, around-the-clock access to technical information on most 3Com products.

3Com FTP Site

Download drivers, patches, software, and MIBs across the Internet from the 3Com public FTP site. This service is available 24 hours a day, 7 days a week.

To connect to the 3Com FTP site, enter the following information into your FTP client:

- Host name: ftp.3com.com
- User name: anonymous
- Password: <your Internet e-mail address>

NOTE: You do not need a user name and password with Web browser software, such as Netscape Navigator and Microsoft Internet Explorer.

Support from Your Network Supplier

If you require additional assistance, consult your network supplier. Many suppliers are authorized 3Com service partners who are qualified to provide a variety of services, including network planning, installation, hardware maintenance, application training, and support services.

When you contact your network supplier for assistance, have the following information ready:

- Product model name, part number, and serial number
- A list of system hardware and software, including revision levels
- Diagnostic error messages
- Details about recent configuration changes, if applicable

If you are unable to consult your network supplier, see the following section on how to contact 3Com.

Support from 3Com

If you are unable to obtain assistance from the 3Com online technical resources or from your network supplier, 3Com offers technical telephone support services. To find out more about your support options, call the 3Com technical telephone support phone number:

1 800 527 8677

When you contact 3Com for assistance, have the following information ready:

- Product model name, part number, and serial number
- A list of system hardware and software, including revision levels
- Diagnostic error messages
- Details about recent configuration changes, if applicable

Returning Products for Repair

Before you send a product directly to 3Com for repair, you must first obtain an authorization number. Products sent to 3Com without authorization numbers will be returned to the sender unopened, at the sender's expense. To obtain an authorization number, call:

1 800 527 8677

Limited Warranty and Regulatory Compliance Information

3Com Corporation Limited Warranty

This warranty applies to customers located in the United States, Australia, Canada (except Quebec), Ireland, New Zealand, U.K., and other English language countries, and countries for which a translation into the local language is not provided

3Com® Network Jack

HARDWARE

3Com warrants to the end user ("Customer") that this hardware product will be substantially free from material defects in workmanship and materials, under normal use and service, for the following length of time from the date of purchase from 3Com or its authorized reseller:

Limited Lifetime, for as long as the original Customer owns the product or for 5 years after product discontinuance, whichever occurs first (not transferable to a subsequent end user). FOR NON-US CUSTOMERS: Where a limited lifetime warranty is not permitted by local law, a 10 year warranty period shall be given by 3Com. The duration of this warranty shall be modified where necessary to meet any minimum warranty period required by law.

3Com's sole obligation under this express warranty shall be, at 3Com's option and expense, to repair the defective product or part, deliver to Customer an equivalent product or part to replace the defective item, or if neither of the two foregoing options is reasonably available, refund to Customer the purchase price paid for the defective product. All products that are replaced will become the property of 3Com. Replacement products or parts may be new or reconditioned. 3Com warrants any replaced or repaired product or part for ninety (90) days from shipment, or the remainder of the initial warranty period, whichever is longer.

SOFTWARE

3Com warrants to Customer that each software program licensed from it, except as noted below, will, if operated as directed in the user documentation, substantially achieve the functionality described in the user documentation for a period of ninety (90) days from the date of purchase from 3Com or its authorized reseller. No updates or upgrades are provided under this warranty. 3Com's sole obligation under this express warranty shall be, at 3Com's option and expense, to refund the purchase price for the

software product or replace the software product with software which meets the requirements of this warranty as described above. Customer assumes responsibility for the selection of the appropriate programs and associated reference materials.

3Com makes no warranty or representation that its software products will meet Customer's requirements or work in combination with any hardware or software products provided by third parties, that the operation of the software products will be uninterrupted or error free, or that all defects in the software products will be corrected. For any third party products listed in the 3Com software product documentation or specifications as being compatible, 3Com will make reasonable efforts to provide compatibility, except where the non-compatibility is caused by a "bug" or defect in the third party's product or from use of the software product not in accordance with 3Com's published specifications or user manual.

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OBTAINING WARRANTY SERVICE

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FCC Class A Verification Statement

WARNING: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules, and the Canadian Department of Communications Equipment Standards entitled, "Digital Apparatus," ICES-003. These limits are designed to provide reasonable protection against harmful interference in a commercial installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case, the user will be required to correct the interference at the user's own expense.

Changes or modifications not expressly approved by 3Com could void the user's authority to operate this equipment.

FCC Declaration of Conformity

We declare under our sole responsibility that the

Model:	**Description:**
NJ100	Network Jack

to which this declaration relates, is in conformity with the following standards or other normative documents:

- ANSI C63.4-1992 Methods of Measurement

Federal Communications Commission 47 CFR Part 15, subpart B

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