

COPPERROCKET 201
SDSL[™]

Installation and Operating Guide



FCC Information
Copper Mountain Networks, Inc.
CopperRocket Model 201 SDSL

Manufacturer's Declaration of Conformance

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This device has been tested to comply with FCC standards and is acceptable for home or office use.

The CopperRocket 201 has been determined to comply with Part 15 of the FCC rules under the manufacturer's Declaration of Conformance procedures in Title 47 of the Code of Federal Regulations, section 2.906 (a). The party responsible for the Declaration of Conformance is:

Copper Mountain Networks, Inc.
10145 Pacific Heights Blvd., San Diego, CA 92121
(858) 410-7100.

Changes or modifications to this device not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

The manufacturer's Declaration of Conformance implies that this device was tested at a laboratory recognized by the FCC and found to meet the limits for a class B digital device. This device has not been certified by the FCC.

IMPORTANT SAFETY INSTRUCTIONS

When using your telephone equipment, basic safety precautions should always be followed to reduce the risk of fire, electric shock and injury to persons, including the following:

- Do not use this product near water, for example, near a bathtub, washbowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool.
- Avoid using this telephone equipment during an electrical storm. There may be a remote risk of electric shock from lightning.
- Use only the power transformer indicated in this manual. The correct power transformer supplies 7.5 VDC at 800 mA and is listed by Underwriters Laboratories. Replacement transformers can be obtained by contacting Copper Mountain Networks, Inc.

In Case of a Problem

First, carefully review the contents of this booklet. Check all of the connection points. Ensure that cables and wires are intact and properly connected between:

Your CopperRocket and your computer,
Your CopperRocket and the DSL data line,
Your CopperRocket and the AC adapter.

Check that the AC adapter is plugged into a live AC socket. If all of the connections are correct, and you are still having difficulties, contact your Network Service Provider for assistance.

Repair of your CopperRocket unit

If you experience trouble with your CopperRocket that is causing harm to the telephone network, the telephone company may request that you remove the equipment from the network until the problem is resolved.

Service and Repair of the CopperRocket by the User.
There are no user serviceable parts inside.

Installation of the CopperRocket

For protection against damage due to local lightning strikes and other electrical surges, we recommend that you install an AC surge arrester in the AC outlet to which this device is connected.

Welcome to CopperRocket™

The CopperRocket™ 201 SDSL Modem is your passport to full internetworking and high-speed multimedia communications from your home or office to a corporate network or the Internet. With your CopperRocket SDSL connected to your computer, and your account activated by your network service provider, your CopperRocket provides a lightning-fast *Digital Subscriber Line* (DSL) connection between your PC or LAN and your service provider's network of high-speed digital facilities.

This booklet contains the information you need to hook up, use and care for your CopperRocket 201 SDSL.

Check the Package Contents

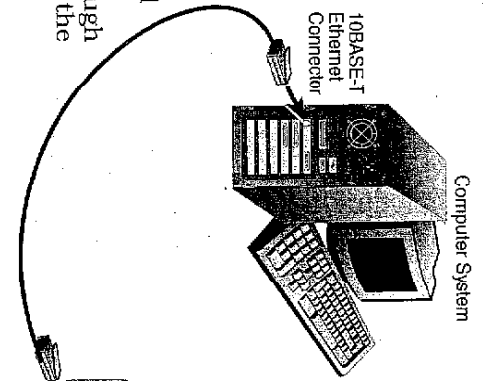
First, check your package to be sure it's complete. You should have the following items:

- The CopperRocket 201 SDSL
- An AC-to-DC power transformer (AC Adapter)
- An 8-pin modular cable for 10BASE-T Ethernet connection
- A standard modular telephone cable for connection to the DSL data line
- A template and instructions for optional wall-mounting.

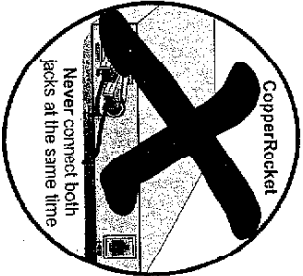
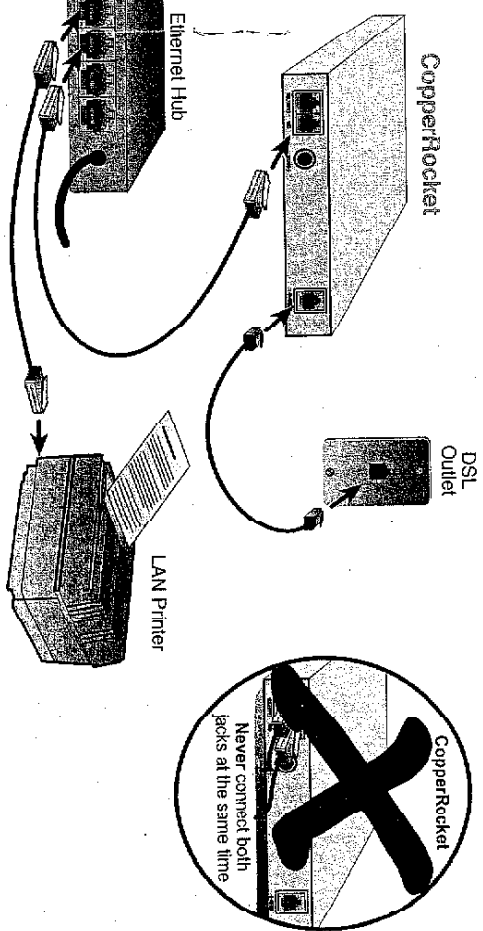
Installation

Connecting the CopperRocket is easy. Pick the applicable hookup for your system from one of the two diagrams shown. Then, using the picture as a guide, just follow these steps:

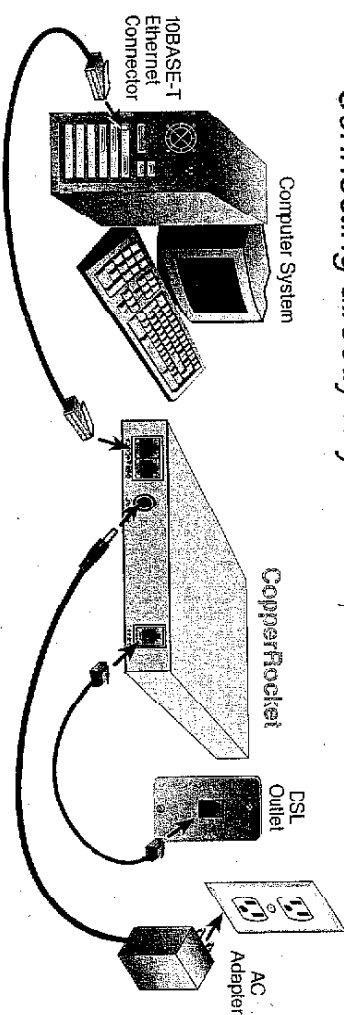
1. Place your CopperRocket in a convenient spot where all of its cables can reach it, and where air can flow freely through the air holes in the bottom of the unit.



Connecting through an Ethernet Hub



Connecting directly to your computer



2. Plug the AC adapter into an AC socket, and connect the DC cable from the adapter to the 7.5 VDC connector on the rear of the CopperRocket.
 3. Connect one end of the 8-pin modular cable to the Ethernet connector on your computer. Connect the other end of the cable to the *computer* connector at the rear of the CopperRocket.
- If you are connecting your computer or other data source through an Ethernet hub, then connect the 8-pin modular cable between the hub and the *hub* connector on the rear of

the CopperRocket. The hub connector avoids the need for a special crossover cable.

CAUTION

The CopperRocket can only support one physical connection at a time; either the hub or computer plug should be connected, but not both.

4. Connect one end of the modular phone cable to the DSL LINE connector at the rear of the CopperRocket. Connect the other end of the cable to the telephone-style outlet of your DSL data line.

CAUTION

The DSL line outlet uses the same type connector as a normal voice telephone line. Take care not to accidentally connect your CopperRocket to a telephone outlet, and never connect a phone to your CopperRocket.

Operation

After you have properly connected your CopperRocket, and your new DSL link has been activated by your Network Service Provider, all you need to do is enjoy the high-speed DSL access to your network. There are no controls or adjustments to make. Just make sure that power is provided to your CopperRocket at all times, and that adequate ventilation is maintained.

If power to the CopperRocket should be interrupted, it will automatically reconnect to the network when power is restored. The connection process is not instantaneous, however; it may take several minutes for your service-provider's central-office equipment to perform its periodic check of your line and then do the necessary "handshaking" to restore full communication.

LED Indicators

There are four indicator lights (LEDs) on the front of the unit. Each of the LEDs can light red, orange, or green, depending on its status. When power is first applied, the indicators cycle through a self-test sequence. All of the LEDs flash orange, after which each switches to its normal condition. If your network provider is downloading software to the CopperRocket, all of the LEDs will sequentially flash orange while the download is in progress, and then will revert to their normal status. This may happen the first time power is applied to your CopperRocket.

power indicator

Lights green when power is applied. If this indicator is off, check to be sure that the 7.5 VDC cable is connected at the rear panel,

and that the power transformer is plugged in. If the *power* LED lights red, there is a problem with your unit.

LAN Indicator

Lights green when your CopperRocket is connected to your PC or Ethernet LAN. As data packets are transmitted, this LED will appear to blink as the LED is turned off during the time each packet is sent. Note that if a continuous stream of packets is transmitted, this LED could be turned off for a period until the transmission is complete.

If connection to the LAN is broken, the LAN Indicator will go off and remain off. Be sure that the *computer* or *hub* cables are properly connected at the CopperRocket rear panel and at your PC or Ethernet hub.

Occasionally there may be errors in the Ethernet data stream, causing the LAN LED to flash red. If everything else seems to be working, then these red flashes may be normal for your system.

DSL Indicator

Lights green if the DSL connection between your CopperRocket and the central office has linked and is properly trained.

During power-up, there may be a short delay until this LED illuminates. After a few seconds, the LED should light orange as the unit attempts to connect with your service-provider's central office equipment (from a few seconds to several minutes). The LED then switches to green when the connection is made. If a connection is not established after three attempts, the CopperRocket will keep trying to connect, but the DSL indicator will light red.

data indicator

Blinks green to indicate successful exchange of data packets over the DSL link. Blinks red if a packet error is detected. Occasional errored packets are normal, and are simply resent. If excessive errors occur, contact your service provider.

Power Requirements

- 120 VAC, 47 - 63 Hz

Operating Environment

- Temperature: 50° to 104° F. (10° to 40° C)
- Humidity: 5-95%, non-condensing

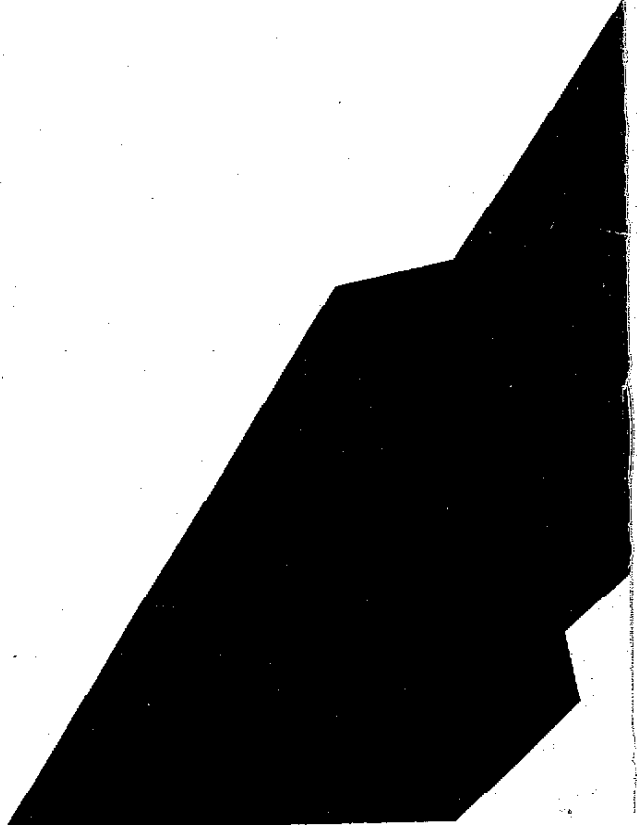
Wall Mount Option

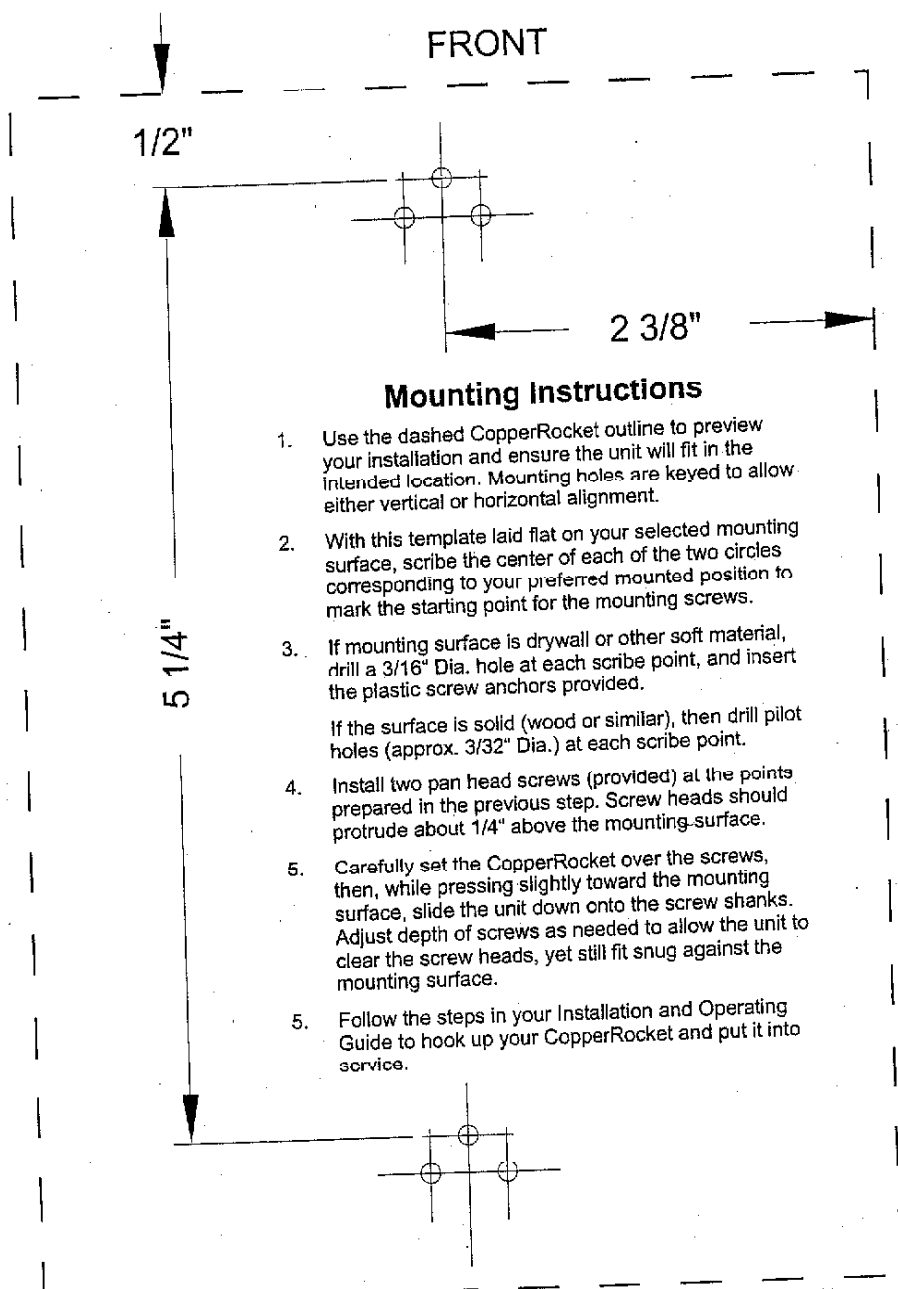
On the bottom of your CopperRocket, two holes are provided for mounting the unit on a wall or other surface. To mount the CopperRocket, follow the instructions printed on the template packed with the unit.



COPPER MOUNTAIN
High Performance DSL Networking™

Copper Mountain Networks, Inc.
10145 Pacific Heights Boulevard
San Diego, CA 92121
1-888-611-4CMN (611-4266)
www.coppermountain.com





Mounting Instructions

1. Use the dashed CopperRocket outline to preview your installation and ensure the unit will fit in the intended location. Mounting holes are keyed to allow either vertical or horizontal alignment.
2. With this template laid flat on your selected mounting surface, scribe the center of each of the two circles corresponding to your preferred mounted position to mark the starting point for the mounting screws.
3. If mounting surface is drywall or other soft material, drill a 3/16" Dia. hole at each scribe point, and insert the plastic screw anchors provided.
If the surface is solid (wood or similar), then drill pilot holes (approx. 3/32" Dia.) at each scribe point.
4. Install two pan head screws (provided) at the points prepared in the previous step. Screw heads should protrude about 1/4" above the mounting-surface.
5. Carefully set the CopperRocket over the screws, then, while pressing slightly toward the mounting surface, slide the unit down onto the screw shanks. Adjust depth of screws as needed to allow the unit to clear the screw heads, yet still fit snug against the mounting surface.
5. Follow the steps in your Installation and Operating Guide to hook up your CopperRocket and put it into service.

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CopperRocket Outline

Your *COPPERROCKET* Warranty

Copper Mountain Networks, Inc. (Copper Mountain) warrants your *CopperRocket*[™] to be free from defects in materials or workmanship for a period of one (1) year from the date of original purchase. Should your *CopperRocket* fail during the warranty period, Copper Mountain will, at its sole option, repair or replace it with a like product, which may incorporate new or refurbished parts, or components. This warranty is extended only to the original purchaser, and only covers failures due to defects in materials and workmanship which occur during normal use during the period of the warranty. It does not cover damage occurring in shipment, or failures caused by products not supplied by Copper Mountain, or failures resulting from accident, misuse, neglect, mishandling, lightning or other natural causes, modification of the product by anyone other than Copper Mountain or its authorized contractors or agents, any failure caused by operation of the product outside of its published electrical or environmental specifications, or any causes other than ordinary use. Expendable components such as batteries or cabling external to the unit are not covered by this warranty.

In order to exercise your rights to repairs under the warranty, you must first contact Copper Mountain at (888) COPPER4 to obtain authorization (including RA number) and instructions for return. If it is necessary to return your *CopperRocket* for repair, you are responsible for paying the cost of shipping it to Copper Mountain. Copper Mountain will pay the cost of shipping it back to you when repairs are completed.

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