

Compatible Systems Tech Notes: 10/100 Autosensing Problem with a MicroRouter 900i/1000R

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Introduction

This document describes an autosensing problem with a MicroRouter 900i/1000R.

Prerequisites

Requirements

There are no specific requirements for this document.

Components Used

This document is not restricted to specific software and hardware versions.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

Refer to Cisco Technical Tips Conventions for more information on document conventions.

Problem

You are connecting a MicroRouter 900i (or 1000R) to a 10/100 autosensing hub. The MicroRouter and the hub cannot see/talk to each other.

Solution

The MicroRouter 900i (and the 1000R) have all three Ethernet media and autosense for the media type. To sense twisted-pair, it looks for a link pulse from the hub. More than likely the 10/100 hub is also looking for a link pulse, therefore, neither "sees" the other.

The router has an internal jumper which can force the Ethernet to use twisted-pair. To find and set the jumper, follow these instructions:

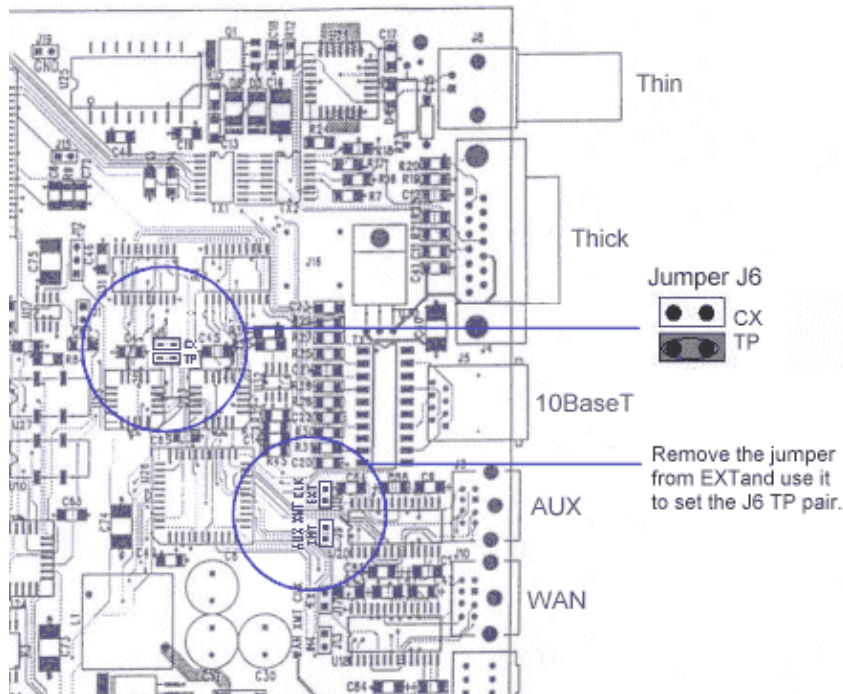


Caution: If unfamiliar with static precautions and working on electronic equipment, get help prior to starting.

Unplug the router from its AC power source. Using a small Phillips-head screwdriver, remove the two corner screws on the back of the unit. Grasp the back panel and carefully pull the board out about half way.



Approximately 2 inches from the twisted-pair port, towards the center of the board is a set of 4 jumper pins (J6). The labels next to the pins are CX and TP. A jumper needs to be installed across the TP pair of pins.



There is a jumper that can be used located next to the AUX port. It is OK to use this jumper since this port is not used for sync connections. The jumper is labeled

AUX XMT CLK
INT EXT

and from the factory it will be on EXT. **Take precaution and do not remove the jumper on the WAN port.** Alternatively, if you have an old PC board or device, you can use a jumper from one of them.

Before reinstalling the cover it is a good idea to power up the router and verify that it starts correctly. If it does, power it down, slide the board back in, and replace the screws. You are ready to go.

Related Information

- **Cisco Compatible Micro Router Series Compatible Systems Setup Guides**
 - **Technical Support & Documentation – Cisco Systems**
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