

Compatible Systems Tech Notes: Adding Memory to Your RISC Router 4000S

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Introduction

The RISC Router 4000S has one SIMM socket for a 72-pin DRAM module. The router ships with a two megabyte (2 MB), 512k X 32, 80ns page-mode module. This can be field upgraded to 4, 8, 16, or 32 MB. The new SIMM must be 72-pin, 80ns or faster, and page-mode memory. Parity is not checked or required. Version 4.0.x of router software is required as well.

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.

Installation



Caution: While working on the router be aware that hazardous voltages may exist in the power supply (even after it has been powered off). Stay clear of it! 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 7 screws from the sides and rear of the top cover. Slide the cover towards the front of the router about a 1/2 inch and then lift the rear of the cover up and remove. It might be necessary to loosen up the 4 Allen-head screws on the front bezel to allow the cover to slide free. The SIMM module is directly behind the coax (thin) connector of Ethernet port A(0). Locate the 2 metal latches on the power supply side of the connector and spread them

apart. The module should pivot out towards the power supply. Before inserting the new SIMM, note the orientation notch on the edge of the module connector — this faces the front of the router.

Install the new module by inserting it into the slot (Make sure that the module is completely bottomed out in the connector and that the latches are seated against the sides.), and pushing it into the latches (away from the power supply). If the latches offer too much resistance, you may need to spread them apart with your fingertips as you push the SIMM into place.

The router has a memory configuration switch that must be set for the module size. Locate the 8–position switch about two inches inward from the module. It is designated as "SW2." It should be set in the following manner:

1. 2 MB – 1 and 2 ON, all others OFF (stock)
2. 4/8 MB – 3 and 4 ON, all others OFF
3. 16/32 MB – 5 and 6 ON, all others OFF

A paper clip makes a good tool to set the switches. A pencil point does not because it can break off and may short out some of the fine–pitch surface mount parts.

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 and reinstall the cover. The cover helps with cooling, prevents dust accumulation and acts as a safety against accidental electrical shock.

Related Information

- [Cisco Compatible Micro Router Series Compatible Systems Setup Guides](#)
- [Technical Support & Documentation – Cisco Systems](#)

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