

HPC/HPX Series DRAM Install

Introduction

The HPC/HPX Series PowerStation can accommodate up to a maximum of 2.0GB of DRAM (Dynamic Random Access Memory). These instructions explain how to install or replace additional DRAM modules.

The DRAM kit includes DRAM in an anti-static bag and an ESD kit.

Before You Start

You will need the following items:

- DRAM kit, one of
 - Model DDR-0256 (256MB DRAM module)
 - Model DDR-0512 (512MB DRAM module)
 - Model DDR-1024 (1.0GB DRAM module)
 - Model DDR-2048 (Two 1.0GB DRAM modules)
- HPC/HPX Series DRAM Installation instructions
- Screwdriver

Precautions

The following precautions are essential during the installation of sensitive components:



Warning For safety reasons, the unit should be opened only by qualified service personnel.

Be sure to observe electrostatic discharge (ESD) precautions while working inside the unit.

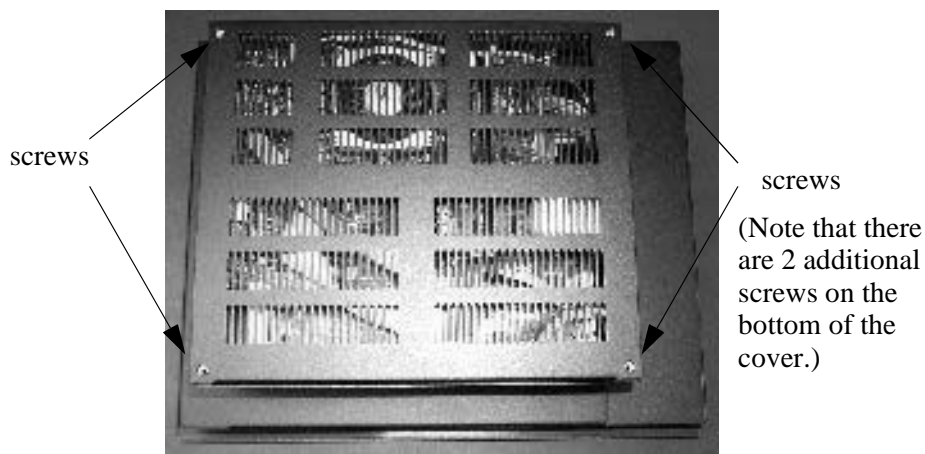
ESD Precautions Preparation

Important Open the ESD Kit and follow the directions for attaching the wrist strap and handling sensitive electronic components.

Removing the Back Cover

Follow these steps to open the unit:

1. Turn off the unit.
2. Disconnect the unit from the power source.
3. Disconnect all cables attached to the unit.
4. Remove the fastening screws from the back cover of the unit. Set screws aside.



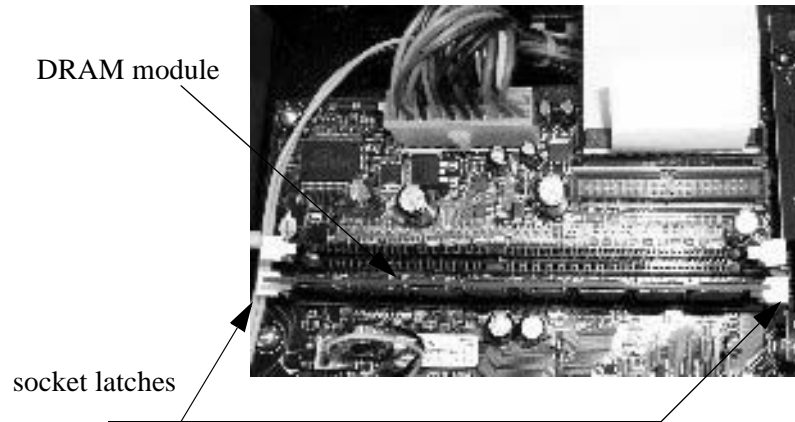
You now have access to the unit.

Removing Existing DRAM

If you wish to leave the existing DRAM, skip to the section *Installing a DRAM Module*.

If you have existing DRAM and want to remove it, then follow these steps:

1. Locate the existing DRAM module on the CPU board as shown below.

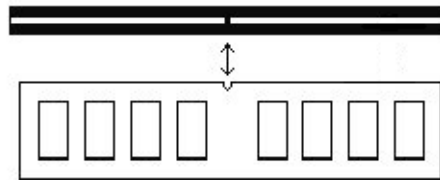


2. Push outward on the socket latches holding the module in its socket. As you push on the latches, the module will move outward.
3. Lift the module out of its socket.
4. Place the module in an anti-static bag for storage if you do not plan to reinstall it at this time.

Installing a DRAM module

To install a DRAM module, follow these steps:

1. Locate the memory module socket (also called DIMM0 or DIMM1 socket). Refer to the figure above.
2. A DRAM module must be installed in the DIMM0 socket before populating the DIMM1 socket with an additional DRAM module.
3. Line up the notch in the side of the module with the tab inside the socket.



4. Press the module into the socket until the socket latches snap into place.

Important Make sure that the DRAM modules are firmly seated in their sockets and that the socket latches are fully engaged. Otherwise, the PowerStation will not start, or the RAM listed in the display at boot will not match the total memory of the PowerStation.

The maximum total DRAM in a HPC Series PowerStation cannot exceed 2.0GB.

Reassembling the Unit

To reassemble the unit, follow these steps:

1. Place the back cover on the unit.
2. Reattach the back cover using the screws removed earlier.
3. Reconnect the power cable and any other disconnected cables to the unit.
4. Reconnect the unit to the power source.

Your DRAM installation is complete. The PowerStation will automatically recognize the installed memory the next time you power it up.

Important If the PowerStation does not recognize the additional memory you installed, make sure that the DRAM modules are firmly seated in their sockets and that the socket latches are fully engaged.