



Installing and Removing a SIP

This chapter describes how to install or remove SIPs on the Cisco ASR 1000 Series Aggregation Services Routers. This chapter contains the following sections:

- [Handling SIPs](#), page 5-1
- [Online Insertion and Removal](#), page 5-2
- [SIP Installation and Removal](#), page 5-9

Handling SIPs

Each SIP circuit board is mounted to a metal carrier and is sensitive to electrostatic discharge (ESD) damage. See the [“Preventing Electrostatic Discharge Damage”](#) section on page 4-8 for ESD precautions. Before you begin installation, read [Chapter 4, “Preparing to Install a SIP or a SPA,”](#) for a list of parts and tools required for installation.



Caution

Always handle the SIP by the carrier edges and handle; never touch the SIP components or connector pins. (See [Figure 5-1](#).)

When a slot is not in use, a blank filler plate must be installed in the empty slot to allow the router or switch to conform to electromagnetic interference (EMI) emissions requirements and to allow proper airflow across the installed modules. If you plan to install a SIP in a slot that is not in use, you must first remove the blank filler plate.

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