



# CHAPTER 7

## Installing AIP-SSM



**Note**

All IPS platforms allow ten concurrent CLI sessions.

This chapter describes how to install AIP-SSM. It contains the following sections:

- [Specifications, page 7-1](#)
- [Memory Specifications, page 7-2](#)
- [Hardware and Software Requirements, page 7-2](#)
- [Indicators, page 7-2](#)
- [Installation and Removal Instructions, page 7-3](#)

## Specifications

[Table 7-1](#) lists the specifications for AIP-SSM:

**Table 7-1**      **AIP-SSM Specifications**

Specification	Description
Dimensions (H x W x D)	1.70 x 6.80 x 11.00 inches
Weight	Minimum: 2.50 lb Maximum: 3.00 lb <sup>1</sup>
Operating temperature	+32° to +104°F (+0° to +40°C)
Nonoperating temperature	-40° to +167°F (-40° to +75°C)
Humidity	10% to 90%, noncondensing

1. 2.70 lb for 45 c heatsink, approximately 3.00 lb for the 55c maximum

# Memory Specifications

Table 7-2 lists the memory specifications for AIP-SSM.

**Table 7-2 AIP-SSM Memory Specifications**

Model	CPU	DRAM
ASA-SSM-AIP-10-K9	2.0 GHz Celeron	1.0 GB
ASA-SSM-AIP-20-K9	2.4 GHz Pentium 4	2.0 GB

# Hardware and Software Requirements

AIP-SSM has the following hardware and software requirements:

- Cisco ASA 5500 series adaptive security appliance
  - ASA 5510 (ASA-SSM-AIP-10-K9)
  - ASA 5520 (ASA-SSM-AIP-10-K9 and ASA-SSM-AIP-20-K9)
  - ASA 5540 (ASA-SSM-AIP-20-K9)
- Cisco Adaptive Security Appliance Software 7.0 or later
- Cisco Intrusion Prevention System Software 5.0(2) or later
- DES or 3DES-enabled

# Indicators

Figure 7-1 shows the AIP-SSM indicators.

**Figure 7-1 AIP-SSM Indicators**

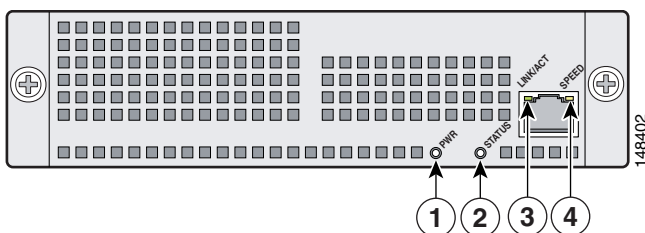


Table 7-3 describes the AIP-SSM indicators.

**Table 7-3 AIP-SSM Indicators**

	LED	Color	State	Description
1	PWR	Green	On	The system has power.
2	STATUS	Green	Flashing	The system is booting.
			Solid	The system has passed power-up diagnostics.

Table 7-3 AIP-SSM Indicators

	LED	Color	State	Description
3	LINK/ACT	Green	Solid	There is Ethernet link.
			Flashing	There is Ethernet activity.
4	SPEED	Green	100 MB	There is network activity.
		Amber	1000 MB (GigabitEthernet)	There is network activity.

## Installation and Removal Instructions

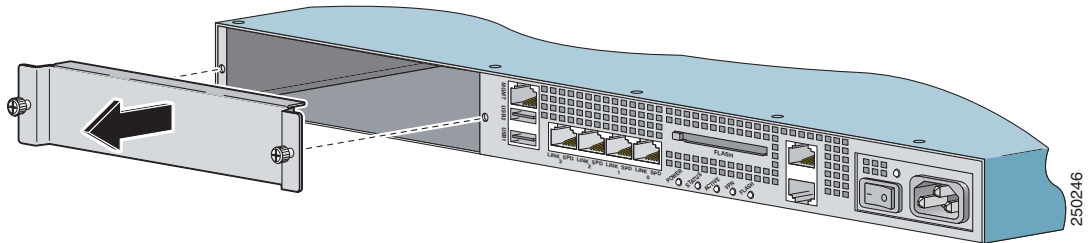
This section describes how to install and remove AIP-SSM, and contains the following topics:

- [Installing AIP-SSM, page 7-3](#)
- [Verifying the Status of AIP-SSM, page 7-4](#)
- [Removing AIP-SSM, page 7-5](#)

### Installing AIP-SSM

To install AIP-SSM for the first time, follow these steps:

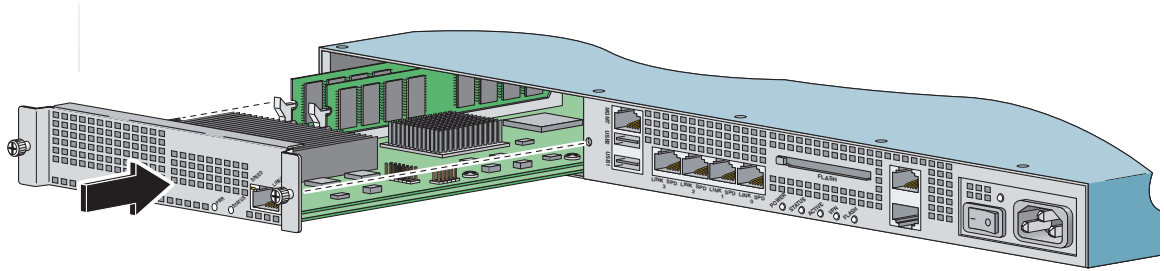
- 
- Step 1** Power off the adaptive security appliance.
  - Step 2** Locate the grounding strap from the accessory kit and fasten it to your wrist so that it contacts your bare skin. Attach the other end to the chassis.
  - Step 3** Remove the two screws at the left back end of the chassis, and remove the slot cover.



**Note** Store the slot cover in a safe place for future use. You must install slot covers on all empty slots. This prevents EMI, which can disrupt other equipment.

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**Step 4** Insert AIP-SSM through the slot opening.



**Step 5** Attach the screws to secure AIP-SSM to the chassis.

**Step 6** Power on the adaptive security appliance by pushing the power switch at the back of the chassis.

**Step 7** Check the indicators.

If AIP-SSM is properly installed, the POWER indicator is solid green and the STATUS indicator is flashing green. You can also verify that AIP-SSM is online using the **show module 1** command.

**Step 8** Initialize AIP-SSM.

**Step 9** Install the most recent Cisco IPS software.

**Step 10** Configure AIP-SSM to receive IPS traffic.

#### For More Information

- For more information about ESD, see [Working in an ESD Environment, page 1-35](#).
- For the procedure for verifying that AIP-SSM is properly installed, see [Verifying the Status of AIP-SSM, page 7-4](#).
- For the procedure for using the **setup** command to initialize AIP-SSM, see [Initializing the Sensor, page 10-1](#).
- For the procedure for obtaining the latest Cisco IPS software, see [Obtaining Cisco IPS Software, page 12-1](#).
- For the procedure for configuring AIP-SSM to receive IPS traffic, refer to [Configuring AIP-SSM](#).
- For the procedure for using HTTPS to log in to IDM, refer to [Logging In to IDM](#).

## Verifying the Status of AIP-SSM

You can use the **show module 1** command to verify that AIP-SSM is up and running.

The following values are valid for the Status field:

- **Initializing**—AIP-SSM is being detected and the control communication is being initialized by the system.
- **Up**—AIP-SSM has completed initialization by the system.
- **Unresponsive**—The system encountered an error communicating with AIP-SSM.
- **Reloading**—AIP-SSM is reloading.
- **Shutting Down**—AIP-SSM is shutting down.

- **Down**—AIP-SSM is shut down.
- **Recover**—AIP-SSM is attempting to download a recovery image.

To verify the status of AIP-SSM, follow these steps:

**Step 1** Log in to the adaptive security appliance.

**Step 2** Verify the status of AIP-SSM:

```
asa# show module 1
Mod Card Type                               Model                               Serial No.
-----
 1 ASA 5500 Series Security Services Module-20 ASA-SSM-20                P2B000005D0

Mod MAC Address Range                       Hw Version   Fw Version   Sw Version
-----
 1 000b.fcf8.0144 to 000b.fcf8.0144 0.2          1.0(9)0      5.0(0.27)S129.0

Mod Status
-----
 1 Up
asa#
```

If the status reads `Up`, AIP-SSM has been properly installed.

## Removing AIP-SSM

To remove AIP-SSM from the adaptive security appliance, follow these steps:

**Step 1** Shut down AIP-SSM:

```
asa# hw-module module 1 shutdown
Shutdown module in slot 1? [confirm]
```

**Step 2** Press **Enter** to confirm.

**Step 3** Verify that AIP-SSM is shut down by checking the indicators.

**Step 4** Power off the adaptive security appliance.

**Step 5** Locate the grounding strap from the accessory kit and fasten it to your wrist so that it contacts your bare skin. Attach the other end to the chassis.

**Step 6** Remove the two screws at the left back end of the chassis.

**Step 7** Remove AIP-SSM and set it aside.



**Note** If you are not replacing AIP-SSM immediately, install the blank slot cover. Slot covers must cover all empty slots. This prevents EMI from disrupting other equipment.

**Step 8** If you need to replace the existing AIP-SSM, insert the new AIP-SSM through the slot opening.



**Note** Do not replace AIP-SSM with a different model. The adaptive security appliance will not recognize it.

**Step 9** Attach the screws to secure AIP-SSM to the chassis.

**Step 10** Power on the adaptive security appliance.

**Step 11** Reset AIP-SSC-5:

```
hostname# hw-module module 1 reset  
Reset module in slot 1? [confirm]
```

**Step 12** Press **Enter** to confirm.

**Step 13** Check the indicators to see if AIP-SSM is properly installed.

If AIP-SSM is properly installed, the POWER indicator is solid green and the STATUS indicator is flashing green. Or you can verify installation using the **show module 1** command.

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#### For More Information

- For more information on ESD, see [Working in an ESD Environment, page 1-35](#).
- For the procedure for verifying whether AIP-SSM is properly installed, see [Verifying the Status of AIP-SSM, page 7-4](#).