



# Cisco RF Gateway 1 Modules Installation Instructions

## Overview

### Introduction

The purpose of this document is to provide users with instructions for installing/removing modules from the RF Gateway 1.

### Audience

This document is intended for system engineers or managers responsible for operating and/or maintaining this product.

### Related Publications

Refer to the following documents for additional information regarding hardware and software.

- *Cisco RF Gateway 1 System Guide*, part number 4024958
- *Cisco RF Gateway 1 Configuration Guide*, part number 4025112

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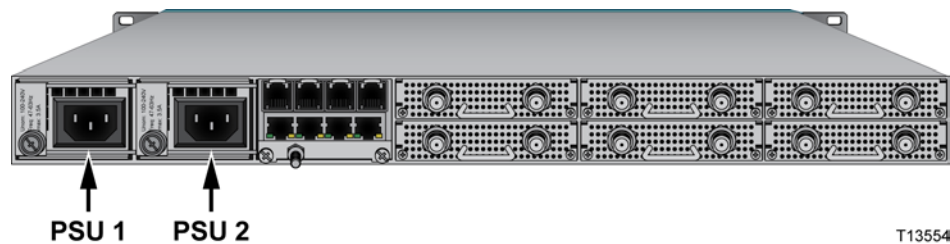
## Installing/Removing the Power Supply Unit (PSU)



### CAUTION:

- During installation, the module connector must align evenly with the connector inside the module slot. Misalignment may cause the connector pins to bend.
- Modules contain static-sensitive devices. Always follow proper electrostatic discharge (ESD) handling procedures (wristband with ground strap and ESD mat) when installing modules in the housing. Follow Electronic Industries Association (EIA) standard EIA-625.

The following illustration shows the location of PSU 1 and PSU 2.



The following illustration shows the PSU installed.



### To Install the PSU

- 1 Loosen the thumbscrew and pull back from the face of the PSU.
- 2 Slide the PSU into the appropriate slot as shown above.
- 3 Push the PSU in carefully, making sure the latch fits into the holes of the flange on the right side of the unit. This properly seats the PSU.
- 4 Tighten the thumb screw.
- 5 Connect the power cord.

**To Remove a PSU**

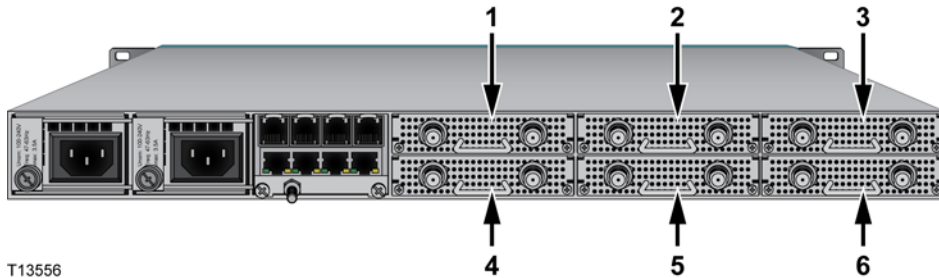
- 1 Remove the power cord from the PSU.
- 2 Unscrew the thumb screw.
- 3 Pull the latch and disengage from the flange.
- 4 Firmly pull and remove the PSU.

**Important:**

- If only one PSU is installed, it is recommended that it be installed in slot PSU 2. A power supply cover plate (part number 4034071) should be installed in slot PSU 1 for proper cooling.

## Installing/Removing the QAM Card

The housing contains 6 hot-pluggable QAM Cards. These cards occupy slots 1-6 of the housing. The following illustration shows the 6 QAM card slots in the housing.



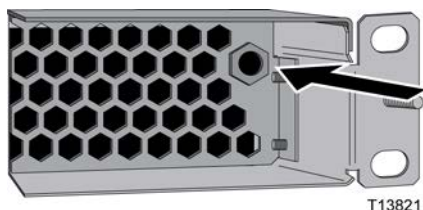
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### Important:

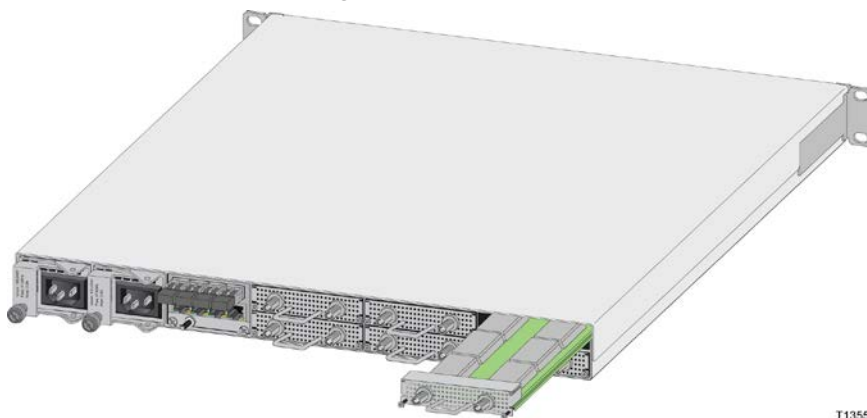
- QAM cover plates (part number 4034070) must be installed in unpopulated card slots for proper cooling.

### To Install the QAM Card

**Note:** When a QAM Card is installed in the chassis and connected to ground via the power cord or via an earth bonding wire, a wristband with ground strap should be connected to the ESD socket of the chassis. See illustration below for location of ESD socket.



- 1 Slide the card in the card guides slot as shown in the illustration.



- 2 Push the card in carefully making sure the QAM Card aligns with the system controller connector.

**Note:** After the QAM Card is inserted, the card loads settings from the system controller board and immediately starts running.

- 3 Tighten the QAM Card screws.

### To Remove a QAM Card

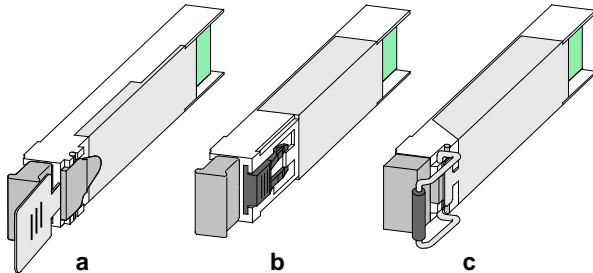
**Important:** It is recommended that the user disable the QAM Card on the GUI, (turn port control off) to prevent unintended service glitches on other channels.

- 1 Loosen the QAM Card screws.
- 2 Pull the QAM Card by its handle and gently remove from the housing.

## Installing/Removing SFP Modules

The housing has 4 ports that can be configured with electrical or optical small form-factor pluggable (SFP) modules. The SFP transceivers have three different types of latching devices used to secure and detach the SFP module from a Gigabit Ethernet port:

- The Tab SFP transceiver (a)
- The Button SFP transceiver (b)
- The Cam Latch SFP transceiver (c)



**WARNING:**

Invisible laser radiation may be emitted from disconnected optical fibers or connectors. Do not stare into beams or view directly with optical instruments.

**Notes:**

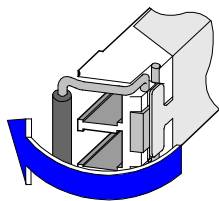
- When the cables are extracted from the SFP transceiver, insert a clean rubber dust plug into the SFP transceiver to protect the transceiver.
- Clean the optic surface of the fiber cables before inserting into an optical SFP transceiver.

**To Install an SFP Module**

- 1 Slide the SFP module into the housing located on the back of the RF Gateway 1.

**Note:**

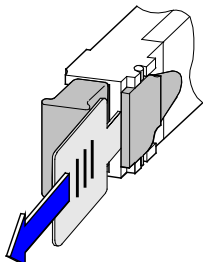
- Before inserting a Cam Latch SFP module, close the latch as shown below.



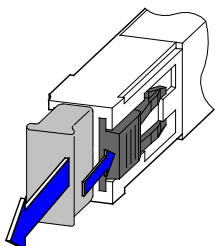
- 2 Gently pull on the SFP module to make sure the module is locked in place.

### To Remove an SFP Module

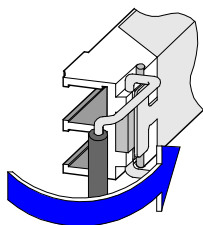
- 1 Unplug the optical fiber or electrical cable from the SFP module.
- 2 Remove the SFP module according to the instructions below.
  - To remove a Tab SFP module, pull the tab gently until the module disengages from the port. Pull the SFP module out.



- To remove a Button SFP module, gently press the actuator/button on the front of the module until it clicks and the latch mechanism activates, releasing the module from the port.



- To remove a Cam latch SFP module, remove the rubber dust plug from the module if present. Open the latch on the module and then pull the module out.



**Note:** To protect the module, it is recommended that you insert a clean rubber dust plug.

For Information

## For Information

### If You Have Questions

If you have technical questions, call Cisco Services for assistance. Follow the menu options to speak with a service engineer.







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August 2012 Printed in USA

Part Number 4034004 Rev B