



Prisma II Chassis 56-Port Upgrade Technical Bulletin

Overview

Audience

This technical bulletin applies to all cable system operators and technicians who use the Prisma II™ Chassis configured with 28 RF ports.

Introduction

The 28-port version of the Prisma II Chassis can be upgraded in the field to a fully populated 56-port chassis.

Use chassis upgrade kit, part number 741429, to upgrade your chassis. The upgrade kit contains the following components:

- 28 RF cable assemblies
- 14 four-inch cable ties

A cable removal tool is available separately if existing cables need to be removed.

- Kit, Removal Tool, RF Conn. PII - part number 741425

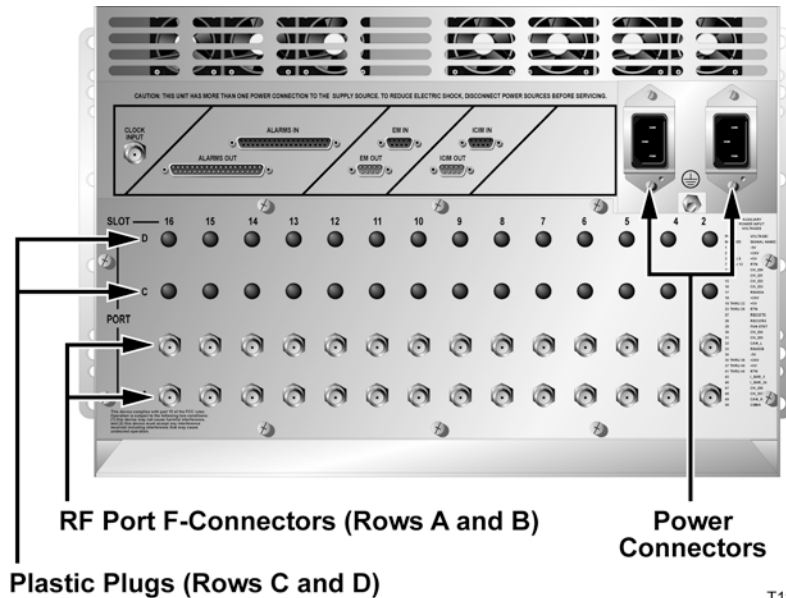
This technical bulletin explains the upgrade procedure in detail.

Chassis Upgrade Procedure

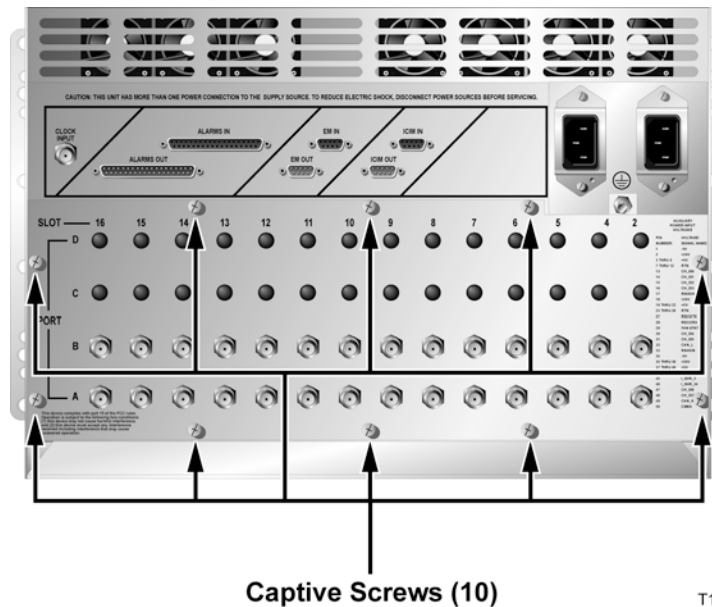
Upgrading the Chassis to 56-Ports

Follow these steps to upgrade your Prisma II Chassis from 28 to 56 RF ports.

1. Remove power to the chassis by unplugging all power cables from the back of the chassis.



2. Loosen the 10 captive screws that secure the RF connector back panel to the chassis and carefully tilt the panel down to expose the existing 28 RF cables.



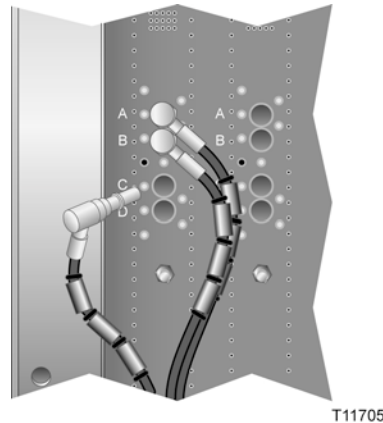
Result: The back panel is removed and you have access to the backplane inside the chassis.

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Chassis Upgrade Procedure, Continued

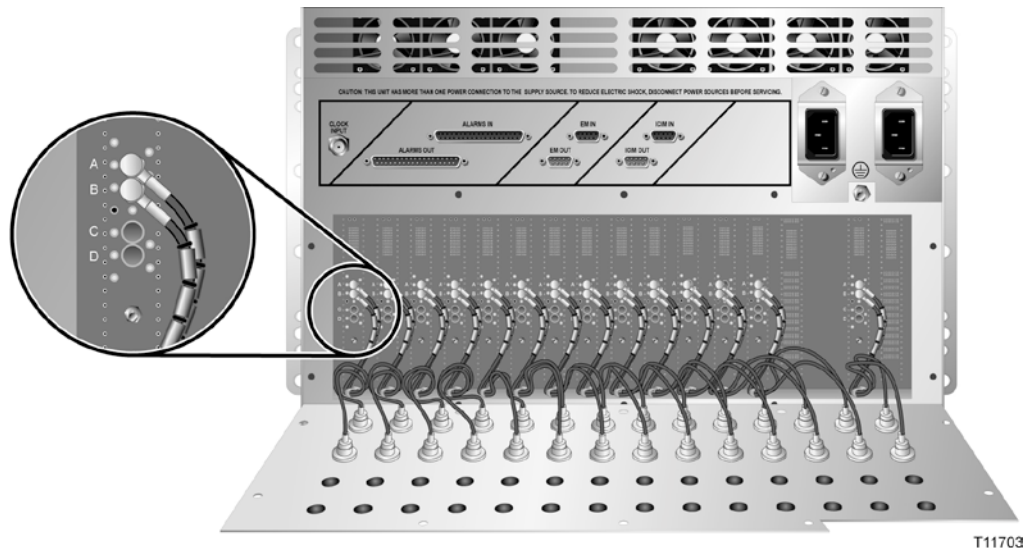
3. Install an RF cable connector into port C of one slot on the backplane.

Push the connector in by hand until you feel and hear it snap into place. (The connector is held in place by an integral spring ferrule on the connector.)



Note: When properly seated, you should not be able to pull the connector out of the backplane with your fingers. If you need to remove a connector, use the removal tool, part number 741425. From the front side of the backplane, carefully insert the tool over the ferrule until it is fully seated. A slight rotating motion makes insertion easier. Then gently push the connector back out of the backplane.

Important: Dress all cables at about a 45° angle to the right and down from the connector so they lay neatly next to the existing RF cables for the slot.



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Chassis Upgrade Procedure, Continued

4. Repeat step 3 for port D of the same slot.
5. Check that the RF connectors for the slot are properly seated in the backplane by installing a module with four RF ports into the slot. The module should seat properly in the slot without excessive force.

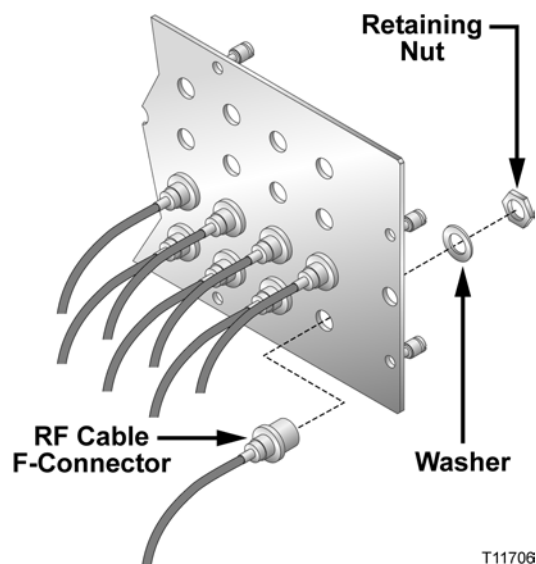
Note: Remove the module after testing the fit.

6. Remove the black plastic plugs for the F-connectors in the back panel for port C of the slot that you are working on.

Note: Use a pair of pliers to compress the retaining ears on the plastic plug from the inside of the back panel and push the plug out.

7. Install the F-connector of the RF cable connected to port C on the backplane into the mounting hole for port C of the same slot on the back panel.

See the sample mounting arrangement in the illustration below.



While holding the body of the F-connector from behind the back panel, tighten the retaining nut to 50 lb-in (5.65 Nm).

Important: Note that the ports are labeled A to D from the **bottom up** on the back panel and labeled A to D from the **top down** on the backplane inside the chassis. Make sure you connect both ends of one RF cable to the same port. Port C to port C, etc.

8. Repeat step 7 for port D of the same slot.

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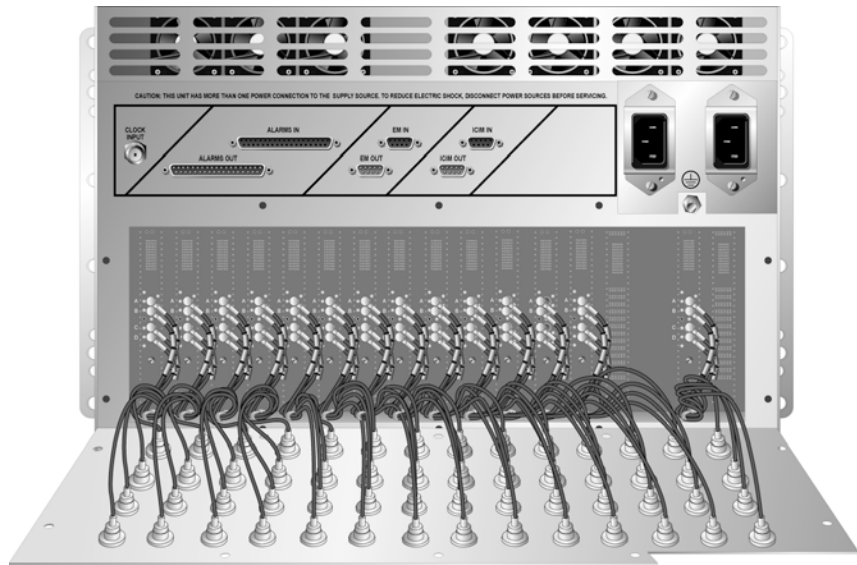
Chassis Upgrade Procedure, Continued

9. Use a new cable tie to secure the two new RF cables for the slot to the existing RF cables for the slot.

Notes:

- Be sure to dress the cables so they lay neatly next to the existing RF cables for the slot.
 - Do NOT cut off the existing cable tie. Instead wrap all four cables in the new cable tie, leaving the existing cable tie in place to hold the cables to the bottom of the chassis.
 - Do NOT over tighten the cable tie or you may damage the cables.
10. Repeat steps 3 through 9 for each slot in the chassis.

Result: The chassis is fully populated with 56 RF ports.



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11. Slowly tilt the chassis back panel, with all RF cables installed, up into position over its chassis mounting position and lined up with its captive mounting screw holes.

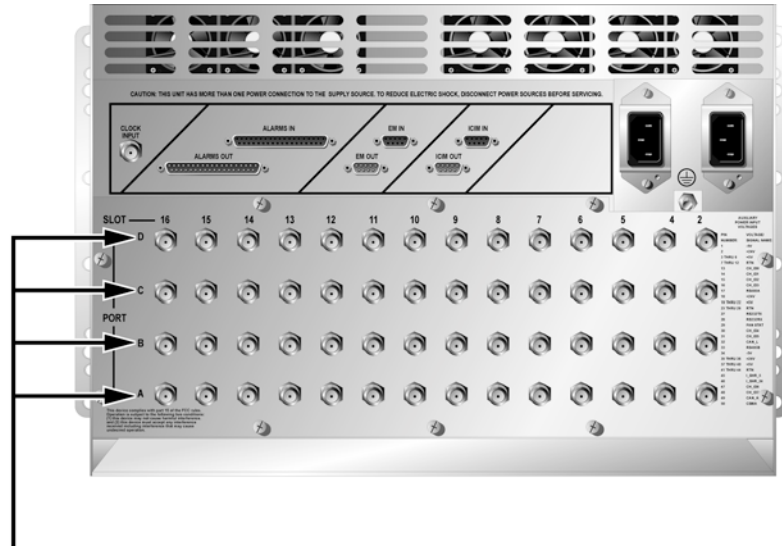
Note: Be sure to pre-form the RF cables as the back panel is moved into position to ensure that the cables are not pinched or subject to a severe bend radius.

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Chassis Upgrade Procedure, Continued

12. Tighten the 10 captive screws that secure the RF connector back panel to the chassis.

Result: The Prisma II Chassis has been upgraded to a 56-port chassis.



RF Port F-Connectors (Rows A, B, C, and D)

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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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