

iting the 3x10 RF Switch sco uBR10012

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Overview

This quick start guide provides basic instructions for rack-mounting a Cisco uBR 3x10 RF Switch in a 4-post equipment rack with the Cisco uBR0012 CMTS.

Before proceeding with the installation, review the safety information in the Cisco RF Switch Regulatory Compliance and Safety Information.

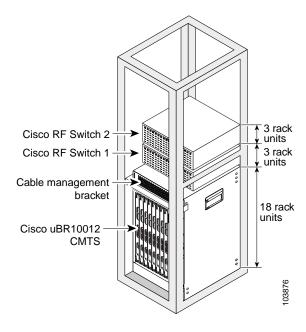


To prevent overheating, install the RF Switch in an area that is properly ventilated or air conditioned.

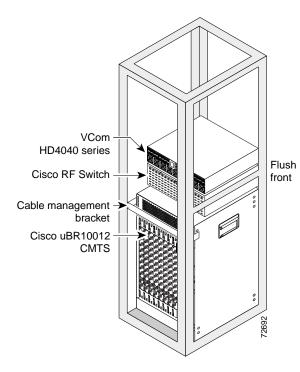
Sample Configurations

The following illustrations show sample configurations using the Cisco uBR3x10 RF Switch in a Cisco uBR10012 CMTS.

Cisco RF Switches Installed in a Figure 1 Cisco uBR10012 CMTS Using Cisco uBR10-MC5x20S/U Line Cards



Cisco RF Switch Installed in a Cisco uBR10012 CMTS Using Cisco uBR10-LCP2-MC28C Line Cards



Required Equipment

The following equipment is required for rack-mounting the Cisco uBR 3x10 RF Switch in a standard 19-inch-wide 4-post equipment rack.



Figure 2

The rack-mount brackets that come in the accessory kit cannot be used with other racks, such as 23-inch telco racks

Tools and Equipment

- · Number 2 Phillips screwdriver
- 7/16-inch flat-blade screwdriver
- Eight 1/32 x 3/8 slotted screws
- · Two M5 hex-head screws

- 4 AWG ground wire
- Ground lug
- Heat-shrink tubing
- Cable management brack
- Two M5 x 8-mm Phillips
- Two rack-mount brackets
- Four M5 x 8-mm Phillips

Cables Used with Th **Configurations**

- 3-m cables—CAB-RFSW MCX to MCX connector
- 1-m cables—CABRFSW5 MCX to MCX connector
- 10-m cables—CABRFSW MCX to F connector
- 1.2-m cables—CAB-RFSV MCX to F connectors



For detailed installat instructions, refer to RF Switch Hardware Cabling Guide.

Corporate Headquarters Cisco Systems, Inc. 170 West Tasman Drive San Jose, CA 95134-1706 http://www.cisco.com

408 526-4000 800 553-NETS (6387) Fax: 408 526-4100

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Printed in the USA on recycled paper containing 10

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readed holes at the front of h chassis (both sides).

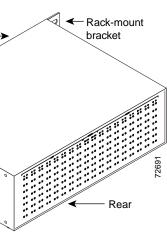
st rack-mount bracket with holes in the left-front side of

A5 x 8 mm Phillips screws rack-mount bracket and into e chassis.

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1 through Step 4 for the other

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- Step 2 Position the chassis so that the rear panel is facing the same way as the connectors on the cards. See Figure 1 and Figure 2.
- Slide the chassis into the rack. Use the Step 3 illustrations to determine where you attach the chassis to the rack. See Figure 1 and Figure 2.
- While keeping the brackets flush against Step 4 the posts or mounting strips, position the chassis so that the holes in the brackets are aligned with those in the mounting strips.



Use all four screws to fasten the two rack-mount brackets to the rack posts, because the brackets support the weight of the chassis (36.6 lbs (16.6 kg).

Insert all four 1/32 x 3/8 slotted screws Step 5 (two on each side) through the brackets and into the mounting strip.



Insert the bottom screws first.

Tighten all the screws.

Grounding the Chassis



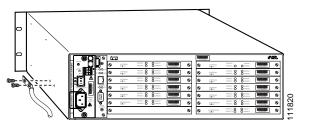
Caution

Before connecting power and turning on the RF Switch, you must provide an adequate earth ground connection.

- Step 1 Locate the ground lug holes on the left-side rear of the chassis.
- Using 4 AWG wire (recommended), insert the wire into the ground lug.
- Step 3 Cover any exposed wire with heat-shrink tubing.
- Step 4 Use the two M5 hex-head screws to attach the grounding lug to the chassis.

Step 5 Attach the wire to an appropriate earth ground location.

Grounding Lug Location Figure 4

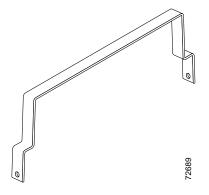


Attaching the Cable Management Bracket

A cable management bracket is included in the shipping container. We recommend using this bracket to ensure proper airflow in the chassis.

- **Step 1** Locate the threaded holes in the right-rear and left-rear side of the Cisco uBR10012 chassis. See Figure 1 and Figure 2.
- Step 2 Align the cable-management bracket with the threaded holes
- Thread the countersunk screws through the bracket and into the chassis.
- Tighten the screws. Step 4

Figure 5 Cable-Management Bracket



Technical Sp

Table 1 Part Numbers an

Description	Part Nur
RF Switch (3x10)	UBR-RF
Weight	36.6 lbs
Dimensions	19 x 15
(w x d x h)	(482 x 3
Operating	32 to 10
temperature	
Storage temperature	-38 to 1
Power requirement	
AC	100 to 2

Requires Cisco IOS Release 1

-48/-60

DC

Related Docu

- Cisco uBR 3x10 RF Swit Installation and Cabling http://www.cisco.com/en/ cable/ps2929/prod_instal list.html
- Cabling the Cisco uBR 3. Cisco uBR7246VXR Rou http://www.cisco.com/en/ cable/ps2929/products_q
- Cisco RF Switch Regulate Safety Information http://www.cisco.com/en/ e/ps2929/products_regula _compliance_list.html
- For information about th enter 78-10747-01C0 at http://www.cisco.com/uni es_inpck/cetrans.htm
 - For VCom HD4040 serie upconverters information URL:

http://www.vcom.com