



Preface

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Audience

This guide is intended for network or hardware technicians responsible for installing, connecting, and configuring the Cisco Remote-PHY solution and associated equipment at the cable head end or distribution hub. The network or hardware technicians should be familiar with the base operating parameters and service offerings of the cable plant where they intend to install this equipment.



Warning

Only trained and qualified personnel should be allowed to install, replace, or service this equipment.
Statement 1030

Purpose

This document describes in detail the Cisco Coaxial Media Converter and the Cisco uBR-MC3GX60V-RPHY line card in the Cisco Remote-PHY solution.

This document does not provide detailed information on the other network components in the Cisco Remote-PHY solution.

Document Conventions

This document uses the following conventions:

Convention	Description
<code>^</code> or <code>Ctrl</code>	Both the <code>^</code> symbol and <code>Ctrl</code> represent the Control (Ctrl) key on a keyboard. For example, the key combination <code>^D</code> or <code>Ctrl-D</code> means that you hold down the Control key while you press the D key. (Keys are indicated in capital letters but are not case sensitive.)
bold font	Commands and keywords and user-entered text appear in bold font .
<i>Italic font</i>	Document titles, new or emphasized terms, and arguments for which you supply values are in <i>italic font</i> .
<code>Courier font</code>	Terminal sessions and information the system displays appear in <code>courier font</code> .
Bold Courier font	Bold Courier font indicates text that the user must enter.
[x]	Elements in square brackets are optional.
...	An ellipsis (three consecutive nonbolded periods without spaces) after a syntax element indicates that the element can be repeated.
	A vertical line, called a pipe, indicates a choice within a set of keywords or arguments.
[x y]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
{x y}	Required alternative keywords are grouped in braces and separated by vertical bars.
[x {y z}]	Nested set of square brackets or braces indicate optional or required choices within optional or required elements. Braces and a vertical bar within square brackets indicate a required choice within an optional element.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.
<>	Nonprinting characters such as passwords are in angle brackets.
[]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.

Reader Alert Conventions

This document uses the following conventions for reader alerts:

**Note**

Means *reader take note*. Notes contain helpful suggestions or references to material not covered in the manual.

**Tip**

Means *the following information will help you solve a problem*.

**Caution**

Means *reader be careful*. In this situation, you might do something that could result in equipment damage or loss of data.

**Timesaver**

Means *the described action saves time*. You can save time by performing the action described in the paragraph.

**Warning**

Means *reader be warned*. In this situation, you might perform an action that could result in bodily injury.

Related Documentation

In addition to this document, the following documents and resources provide additional information related to the Cisco Remote-PHY solution.

Release Notes

- [Release Notes for Cisco Coaxial Media Converter](#)
- [Cisco Remote-PHY Solution Release Notes for Cisco IOS Release 12.2\(33\)CX](#)

Regulatory Compliance and Safety Information

- [Regulatory Compliance and Safety Information for Cisco Coaxial Media Converter](#)
- [Regulatory Compliance and Safety Information for the Cisco uBR10012 Universal Broadband Router](#)

Installation Guide

- [Cisco uBR10012 Universal Broadband Router Hardware Installation Guide](#)

Command Reference

- [Cisco Coaxial Media Converter Command Reference](#)
- [Cisco CMTS Command Reference](#)

Configuration Guide

- [Cisco IOS CMTS Cable Software Configuration Guide, Release 12.2SC](#)

Licensing Information

- [Software License Activation on Cisco CMTS Routers](#)

MIB Information

- [Cisco CMTS Universal Broadband Router Series MIB Specifications Guide](#)

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, using the Cisco Bug Search Tool (BST), submitting a service request, and gathering additional information, see *What's New in Cisco Product Documentation*, at: <http://www.cisco.com/c/en/us/td/docs/general/whatsnew/whatsnew.html>.

Subscribe to *What's New in Cisco Product Documentation*, which lists all new and revised Cisco technical documentation as an RSS feed and delivers content directly to your desktop using a reader application. The RSS feeds are a free service.

Feature Information for the Cisco Remote-PHY Solution

Use Cisco Feature Navigator to find information about platform support and software image support. Cisco Feature Navigator enables you to determine which software images support a specific software release, feature set, or platform. To access Cisco Feature Navigator, go to <http://tools.cisco.com/ITDIT/CFN/>. An account on <http://www.cisco.com/> is not required.

**Note**

The below table lists only the software release that introduced support for a given feature in a given software release train. Unless noted otherwise, subsequent releases of that software release train also support that feature.

Table 1: Feature Information for the Cisco Remote-PHY Solution

Feature Name	Release	Feature Information
Cisco Remote-PHY Solution	Cisco IOS Release 12.2(33)CX	The Cisco uBR-MC3GX60V-RPHY line card and Cisco CMC were introduced.