

Cable Hardware and Software: uBR7200, uBR7100, uBR10K, uBR905 FAQs

Document ID: 63990

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Introduction

This document answers frequently asked questions about the Cisco uBR7200, uBR7100, uBR10K, and uBR905 cable access routers.

For more information on document conventions, refer to the Cisco Technical Tips Conventions.

uBR7200

Q. What is the difference between the several modem cards (MC) cards supported on the Cisco uBR7200 Series?

A. This table compares the different MC cards supported on the Cisco uBR7200 Series:

Cable Modem Cards	If you enable the "show diag" command, you receive a part number that starts with:	Can you order this card?	Downstream IF signals to an IF-to-RF upconverter MHz	Output Power in dBmV +/- 2dB
UBR-MC11 (FPGA)	800-02455-0x, where x = 1, 2, or 3	No	44	32
UBR-MC11C	800-04767-01	Yes	44	42
UBR-MC12C	800-04881-01	Yes	44	42
UBR-MC14C	800-04882-01	Yes	44	42
UBR-MC16B	800-03566-0x, where x = 3 or 4	No	44	32
UBR-MC16C	800-05266-01	Yes	44	42

UBR-MC16E	800-05881-0x, where x = 1, 2, 3, or 4	Yes (except 800-05881-03)	36.125	40
UBR-MC16S	800-005034-0x, where x = 1, 2, or 3	Yes	44	42
UBR-MC28C	800-06297-0x, where x = 1 or 2	Yes (except for the uBR7246)	44	42
UBR-CLK-T1	If you enable the ubr-7246# show version command, you receive: National clock card with T1 controller	Yes	N/A	N/A

uBR10K

Q. Why does the %PA-3-PACREATE: Unable to create driver for Port Adaptor type 585 in bay 1 error message appear on the Cisco uBR7100 router on bootup?

A. The bootloader image does not support the Port Adaptor (PA) in order to keep the bootloader image small in bootflash. However, the Cisco IOS image supports the PA, so this error message is irrelevant once the Cisco IOS image loads.

uBR905

Q. What is the Cisco uBR905 cable access router?

A. The Cisco uBR905 cable access router is an integrated DOCSIS 1.1-based cable modem and Cisco IOS router. The Cisco uBR905 also integrates a four-port 10BaseT Ethernet hub, firewall, and IP Security Protocol (IPSec) virtual private network (VPN) technologies into a single compact design. The Cisco uBR905 has dedicated hardware in order to achieve high-speed IPSec VPN performance.

Q. What is a typical application of the Cisco uBR905 cable access router?

A. One typical application is for use in a small business environment. The Cisco uBR905 offers small businesses high-speed access to the Internet, security, and support for multiple devices. If you integrate the fully functional Cisco IOS® Software and DOCSIS-compliant cable modem, the Cisco uBR905 provides small offices with the ability to support multiple IP devices in a LAN environment. You gain the benefit of both a trusted router and a quality cable modem in one box.

Q. Why is the Cisco uBR905 cable access router classified a "cable access router" and not a "cable modem"?

A. The term "cable modem" has come to define a product category that is made up of low-cost, consumer electronic bridging devices. Because the the Cisco uBR905 is defined as a cable access router, the uBR905 belongs to a separate product category than cable modems. The Cisco uBR905 serves a different segment of business users. Business users not only value the high-speed connectivity offered by cable modems, but these users require the enhanced security, manageability, and quality of service (QoS) offered by an integrated router.

Q. What are the differences between the Cisco uBR924 cable access router and the Cisco uBR905 cable access router?

A. The Cisco uBR905 is an evolutionary, not revolutionary, design. This router is very similar to, and uses much of the same technology as, the award-winning Cisco uBR924 cable access router. The Cisco uBR924 is the first DOCSIS-compliant cable access router to support voice over IP (VoIP). However, there are two major differences. The Cisco uBR905 is a data-only product and does not have the voice ports of the Cisco uBR924. Also, the Cisco uBR905 contains hardware acceleration to optimize IPSec VPN performance.

Q. What are the primary differences between the Cisco CVA120 Series and the Cisco uBR900 Series?

A. The Cisco CVA120 Series provides one Ethernet port and one USB port for data and two telephony ports. Data capability is limited to IP routing and Cisco Easy IP, and the Cisco CVA120 is primarily positioned as a flexible cable voice over IP (VoIP) platform. On the other hand, the Cisco uBR900 Series products support a rich set of Cisco IOS Software features such as Cisco IOS Firewall and IPSec hardware-acceleration on some models. The Cisco uBR905 and uBR924 feature a four-port Ethernet hub, while the uBR914 supports a serial interface.

Q. What software feature sets are available for the Cisco uBR905 cable access router at first customer ship (FCS)?

A. The Cisco uBR905 cable access router comes with this base image:

- ◆ Value Telecommuter Includes 56-bit (DES) IPSec

In addition, these software upgrade options are available at extra cost:

- ◆ Performance Telecommuter Includes 3DES IPSec
- ◆ Value Small Office Includes firewall, 56-bit IPSec
- ◆ Performance Small Office Includes firewall, 3DES IPSec

Q. What are the DS, US, and DSNR LEDs on the front of the Cisco uBR905 cable access router and what information do these LEDs provide?

A. These LEDs provide an at-a-glance picture of the radio frequency (RF) state of the Cisco

uBR905. These LEDs make it much easier for cable operators to install and troubleshoot installs.. These LEDs are not found on many competitors' cable Customer Premise Equipment (CPE) devices.

This table provides descriptions and functions for various LEDs:

LED	Description	Function
OK	System status	On = System OK Off = No power
CATV ACT	Cable activity	Blink = Cable activity
CATV LINK	Cable link	Off = No activity On = Link up Blink = Establishing link to service provider Off = Link down
1,2,3, or 4	Ethernet 1,2,3, or 4	On = Link up Blink = Activity Off = Link down
MSG	Message	Use is defined by the service provider
DS	Downstream LED	On = Locked to downstream channel (from headend to PC) Off = Not locked to downstream channel
US	Upstream LED	On = Communication on the upstream (from PC to headend) Off = Secondary ranging not completed
DSNR	Downstream signal-to-noise ratio LED	On = Receiving good downstream signal Off = Receiving low downstream signal

Q. Is the Cisco uBR905 cable access router CableLabs–certified?

A. Yes, the Cisco uBR905 cable access router has received CableLabs Certification.

Q. Is there a EuroDOCSIS version of the Cisco uBR905 cable access router?

A. The Cisco uBR905 is designed to accept EuroDOCSIS components with the same design as the uBR905, so it is possible to create a European version without much effort. But, the EuroDOCSIS market is still in development, and business–class services are not a top priority for operators. There is not a demand for this product at this time.

Q. Where can I find a more detailed FAQ document for uBR905?

A. For a more detailed FAQ on uBR905, refer to Q & A Cisco uBR905 Cable Access Router.

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Updated: Sep 03, 2006

Document ID: 63990
