

# Quick Start

## CISCO UBR905

### CABLE ACCESS ROUTER

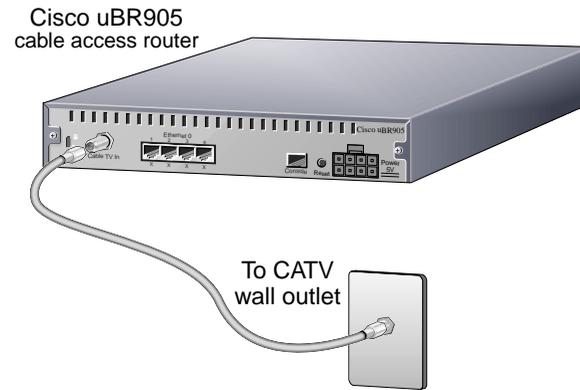
### SUBSCRIBER SETUP

This Quick Start card describes how to connect the Cisco uBR905 cable access router to the cable TV (CATV) network and to one or more PCs. For more details, see the *Cisco uBR905 Hardware Installation Guide*, available on the Cisco Connection Online (CCO) website at <http://www.cisco.com>.

## 1 Connect the Cable Access Router

### A Connect to the Cable TV Network

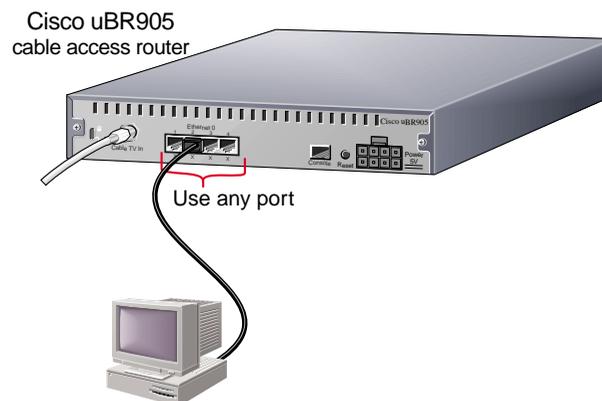
To connect the Cisco uBR905 cable access router to the CATV network, you will need a quality coaxial cable (such as RG-59). If you want to use the same CATV outlet for both cable TV and cable network services, you will also need a coaxial cable splitter, available from your service provider.



- 1 Locate the coaxial cable TV wall outlet.
- 2 Connect one end of the coaxial cable to the cable TV wall outlet.
- 3 Connect the other end of the coaxial cable to the connector labeled **Cable TV In** on the cable access router's rear panel.

### B Connect to Your PC

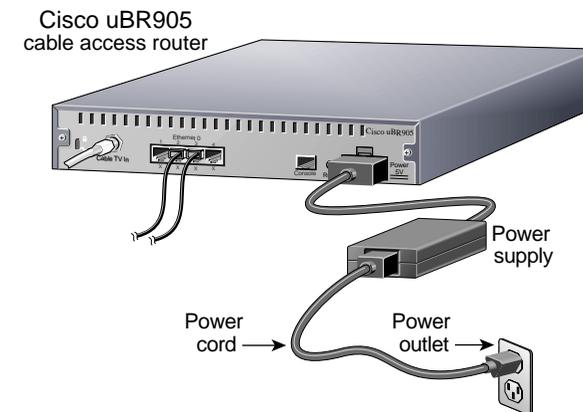
To connect the Cisco uBR905 cable access router to one PC, use the yellow Ethernet cable supplied with the unit. For each additional PC, you will need an additional straight-through Ethernet cable with RJ-45 connectors.



- 1 Connect one end of the Ethernet cable into one of the four Ethernet ports (labeled 1, 2, 3, and 4) on the cable access router's rear panel.
- Note** All four Ethernet ports are identical.
- 2 Connect the other end of this cable to the Ethernet port on the PC.
  - 3 Repeat Step 1 and Step 2 for each additional PC. The cable access router contains four Ethernet ports to connect directly to four PCs.

**Note** Your service provider determines the number of devices that you can connect to the cable access router, based on your service agreement and the services being provided. If supported by your service provider, you can also connect an Ethernet hub to one of the Ethernet ports on the cable access router, and then connect additional Ethernet devices to the hub. (You might need a crossover cable to connect to the hub.)

### C Connect Power



- 1 Connect the provided black power supply to the eight-pin black power connector on the cable access router's rear panel.

- 2 Connect one end of the power cord to the power supply and the other end of the power cord to a grounded AC power outlet. The cable access router powers on immediately when you connect it to the power outlet.
- 3 If the PCs connected to the cable access router are not powered on, turn them on now.
- 4 Power on all other equipment and wait for the devices to complete startup.

## 2 Initialize the Cable Access Router

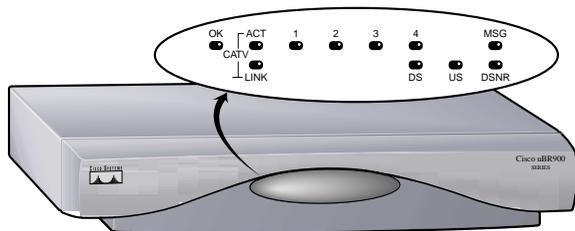
When the Cisco uBR905 cable access router is connected and powered on, it performs a series of self-diagnostics and then automatically configures itself for the CATV network.

At the start of initialization, most of the LEDs (lights) on the cable access router light briefly, then turn off. The following events occur during initialization:

- 1 Various LEDs come on during the self-test to display progress and error codes.
- 2 The OK LED blinks as the cable access router completes its self-tests. After the self-tests complete, the OK LED turns on solid.
- 3 The cable access router registers with the service provider and begins communicating with the CATV network.

- 4 After initialization, the OK, LINK, DS, US, and DSNR LEDs come on, as shown in the following table, to indicate that the cable access router is operational.

## LED Descriptions



LED	Description	Function
OK	System status	On = System OK Off = No power
CATV ACT	Cable activity	Blink = Cable activity Off = No activity
CATV LINK	Cable link	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

## 3

### Verify the Installation

#### A Check the LEDs

Check the LEDs on your cable access router to make sure that it is properly connected:

- If the OK LED does not stay on, check the power connections.
- If the CATV LINK LED does not stay on, check that the coaxial cable is firmly connected to both the cable access router and the CATV wall outlet. If using a splitter, remove it and connect the cable access router directly to the wall outlet.
- If the appropriate Ethernet LEDs (1, 2, 3, 4) do not blink or stay on when data transmits from the PCs, check the Ethernet cable connection for each PC connected to the cable access router.
- If the DS, US, and DSNR LEDs do not stay on, contact your service provider.

#### B Connect to a Web Site

To verify Internet connectivity, start the web browser software on your PC and connect to a web site of your choice, or try the Cisco Connection Online (CCO) web site at:

<http://www.cisco.com>

If you can access a web page, your cable access router installation is complete.

If you cannot access a web page, check for the following possible causes:

- Check all cable connections, especially the Ethernet and coaxial cable connections.
- If more than one PC is connected to the cable access router, or if you are using an Ethernet hub, disconnect all devices and directly connect only one PC to the cable access router to simplify troubleshooting.
- Check that the PC is configured according to the instructions from your service provider. In most cases, you will configure the PC to obtain its IP address automatically from the cable network. (On Windows 95/98 PCs, choose the **Start>Settings>Control Panel** menu, open **Network**, click on the **TCP/IP** selection for your Ethernet adapter, and click **Properties**.)
- If the PC is configured correctly, reboot it to force it to obtain a new IP address from the cable network.

If you still cannot get a connection, contact your service provider for assistance.

## 4

### Safety Information

The following safety instructions must be followed when installing the cable access router. Failure to install the unit in accordance with these instructions will invalidate the agency approvals for the Cisco uBR905 cable access router.

- Do not remove the unit's cover. No operator serviceable parts exist inside the chassis. Refer all servicing to qualified service personnel.
- Do not work on the system or connect and disconnect cables during a lightning storm.
- Safety requirements cannot be maintained unless the unit is connected to a power outlet with a protective earth ground.

For more information and additional safety information and warnings, see the *Cisco uBR905 Cable Access Router Hardware Installation Guide*, available on CCO (<http://www.cisco.com>) and the documentation CD-ROM. To locate this document on CCO, click **Technical Documents**, then **Documentation Home Page**, then **Broadband Cable Solutions**, and then **Cisco uBR900 Series Cable Access Routers**.

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