

Deliver Secure, High-Speed DOCSIS Data and Voice Commercial Services with the Cisco uBR900 Series Cable Access Router

Cisco uBR900 Series Cable Access Routers allow cable service providers to deliver feature-rich, business-class Virtual Private Network (VPN) and Voice-over-IP (VoIP) services to small businesses, branch offices, and corporate telecommuters. The products integrate a DOCSIS 1.1-based cable modem and Cisco IOS[®] Software router in one platform that contains dedicated hardware to achieve high-speed IP Security (IPSec) VPN performance. Fully standards-based, Cisco uBR900 Series Cable Access Routers operate in DOCSIS bridge mode similar to compliant modems, but include routing, advanced firewall, and IPSec VPN features that transform the devices into powerful enterprise or cable customer premises equipment (CPE) products.

Cisco uBR900 Series Cable Access Routers include the following:

- The Cisco uBR905 Cable Access Router, which integrates a 4-port, 10BaseT Ethernet hub with firewall and IPSec VPN technologies in a single, compact design.
- The Cisco uBR925 Cable Access Router, which offers all the capabilities of the Cisco uBR905 Cable Access Router, but also supports voice, modem, and fax calls over a cable IP network, and includes a Universal Serial Bus (USB) connection.

Figure 1 Cisco uBR900 Series Cable Access Router





Table 1 Cisco uBR900 Series Cable Access Router Features and Benefits

Feature	Benefit
Integrated DOCSIS 1.1-Ready Cable Modem and Cisco IOS Router	<ul style="list-style-type: none"> Reduces costs with an integrated, one-box solution that simplifies transition to DOCSIS 1.1 Uses Cisco IOS Software that supports advanced network configurations, offers investment protection through ongoing software enhancements, and provides a proven, stable product that simplifies training and leverages existing knowledge
Enhanced Business-Class Security through Integrated Cisco IOS Firewall (Optional) and Hardware-Accelerated IPSec VPN: 3DES (Optional) and 56-bit (Included)	<ul style="list-style-type: none"> Provides full-featured, business-class firewall, in contrast to partial security solutions such as NAT or packet filtering Combines firewall and routing into one platform, enabling easy add-on for existing network Supports high-speed, secure IPSec VPN technology; ideal for telecommuters or LAN extension applications
Manageable Through SNMP, Telnet, HTTP, and Local Console Port	<ul style="list-style-type: none"> Allows both centralized and local administration, management, and diagnosis of problems
Common Cable Network Management Tools	<ul style="list-style-type: none"> Enables operators to rapidly and easily deploy the product through common GUIs and SNMP

Table 2 Cisco uBR900 Series Cable Access Router Comparison

Feature	Cisco uBR905 Cable Access Router	Cisco uBR925 Cable Access Router
Ports:		
• 10BaseT Ethernet	4-port hub	4-port hub
• Universal Serial Bus (USB)—Serial-B receptacle	–	1 port
• RJ-11 Foreign Exchange Station (FXS) Ports	–	2 ports
• Console	1 port	1 port
• CATV—Female F Connector (Designed to comply with CableLabs DOCSIS specifications)	1 port	1 port
Routing Features:		
• Cisco IOS Easy IP (NAT and Port Address Translation (PAT), multi-NAT, and Dynamic Host Configuration Protocol (DHCP server)	X	X
• Routing Information Protocol (RIP), RIPv2 Protocols	X	X
• Tunneled quality of service (QoS) for Prioritization of Ethernet Traffic by Application	X	X

Feature	Cisco uBR905 Cable Access Router	Cisco uBR925 Cable Access Router
Voice Features:		
• H.323 Generic Voice-over- DOCSIS standard, Simple Gateway Control Protocol (SGCP), and Media Gateway Control Protocol (MGCP)	-	X
Security Features:		
• 56-Bit IPSec and 3DES IPSec (optional)	X	X
• IPSec Hardware Acceleration and Firewall (optional)	X	X

Table 3 Technical Specifications

Specifications	
Physical Dimensions and Weight	
• Dimensions (LxWxH)	• 9.30 x 13.0 x 2.3 in. (24.77 x 33.02 x 5.84 cm)
• Weight	• 3 lb (1.36 kg)
• Weight (Power Adapter)	• 1 lb (0.45 kg)
Power	
• Power Consumption	• 12 to 15 watts (idle-maximum)
• Power Supply Rating	• Output: 20 watts; Input: 100-240 VAC, 50-60-Hz, 1A
Indicators	
	• System Status, Cable Activity, Cable RF Link, Ethernet 1, 2, 3, and 4, Downstream Signal Lock Status, Upstream Signal Quality, Downstream Signal-to-Noise ratio, Message Waiting
	• Cisco uBR925 Cable Access Router only: USB Activity, Voice System Status, Voice Port 1 and 2
Environmental Specifications	
• Temperature	• Operating: 32 to 104 F (0 to 40 C); Non-operating: 31 to 158 F (-25 to 70 C)
• Relative Humidity	• 5 to 95 percent noncondensing
• Altitude	• 0 to 10,000 ft
Regulatory	
• Safety	• UL 1950, CSA 22.2 No.950, EN60950, IEC 60950, AS/NZS3260, TS001
• EMI	• EN50082-1:1992, EN55022:1994 Class B, AS/NZS 3548:1995, VCCI 3197.04 Class B, 47 CFR 15 Subpart B, 1997 Class B



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