

CISCO uBR10012

UNIVERSAL BROADBAND ROUTER

The Cisco® uBR10012 Universal Broadband Router is a communications grade cable modem termination system (CMTS) that helps cable operators evolve their traditional cable infrastructures to an IP nextgeneration network with superior reliability, performance, scale, and density. The Cisco uBR10012 supports large scale delivery of advanced, revenue-generating IP services for business and residential customers. The unique architecture of the Cisco uBR10012 brings unparalleled flexibility and intelligence to the cable network with consistent high performance and sophisticated routing capabilities.



- Enables efficient video delivery over IP
- Opportunity to scale services to meet new subscriber growth
- Cost effective option to scale DOCSIS deployments
- Protects investment and helps ensure compatibility with next-generation multiservice networks
- Provides QoS support, access lists, Multicast, MPLS traffic engineering
- Enables delay sensitive applications, such as voice and video

The Cisco uBR10012 supports the Cisco uBR-MC20X20V Broadband Processing Engine, which offers 20 downstream (Annex A or Annex B) and 20 upstream channels in which each downstream port is capable of carrying four frequency-stacked downstream channels.

DESCRIPTION	SPECIFICATION
Chassis	18 rack units with two chassis per 7-foot rack; fully configured chassis weight is 235 lb (106.6 kg); each chassis is 31.25 in. (79.4 cm) high, 17.2 in. (43.7 cm) wide, and 22.75 in. (57.8 cm) deep
Power	DC input voltage of -48 to -60 VDC with 3000W maximum power consumption, 230 VAC option with 2400W maximum power consumption Additional Powering Options: 1. DC input voltage of -40.5 to -72 VDC with 3300W maximum power consumption 2. 230 VAC, 3300W maximum power consumption
Temperature	41 to 104°F (5 to 40°C) operating and -40 to 158°F (-40 to 70°C) non-operating
Interfaces	Eight line card slots; four LAN/WAN interface slots; interfaces include Gigabit Ethernet and Wideband SPA
Compliance and emissions	UL/CSA 60950-1, IEC/EN 60950-1, AS/NZS 60950.1, CAN/CSA 22.2 No. 950-95, EN 300 386
Regulatory	Regulatory FCC 47CFR15, Class B, CISPR22 Class B, EN55022 Class B, AS/NZS CISPR 22 Class B, ICES-003 Class B, VCCI Class B, IEC/EN61000-3-2, IEC/EN61000-3-3, IEC/EN61000-4-2, IEC/EN61000-4-3, IEC/EN61000-4-4, IEC/EN61000-4-5, IEC/EN61000-4-6, IEC/EN61000-4-11, designed to meet GR-1089-CORE NEBS EMC and Safety, Issue#5, GR-63-CORE NEBS Physical Protection, Issue#3.
Software support	Cisco IOS Software Release 12.3(13)BC minimum to support PCMM, admission control, Advanced Mode DSG, and SII

AVAILABLE MODULES

MODULE	DESCRIPTION
uBR MC20X20V	<p>Next generation line card</p> <p>It adds features to the Cisco uBR10012 platform, including 20 upstream (on 20 dedicated physical ports) and 20 downstream channels (on five physical ports). The line card provides the capability to have 160 downstream and 160 upstream interfaces in a single Cisco uBR10012 chassis and when used with the DOCSIS 3.0 capable Cisco 1 Gbps Wideband Shared Port Adapter (SPA), can scale to 304 downstream channels.</p>
PRE4	<p>Performance Routing Engine 4</p> <p>Provides up to 10 million packets per second (mpps) of processing power for increased throughput and supports increased bandwidth through link bonding connections between the PRE 4 and Cisco 10000 Series SPA Interface Processor (SIP)-600</p>
PRE5	<p>Series Performance Routing Engine 5 With 10, 20 or 40 licenses.</p> <ul style="list-style-type: none"> Provides up to 10 million packets per second (mpps) of processing power for both IPv4 and IPv6 with typical configurations (The IPv6 data plane is redesigned to significantly improve forwarding performance.) Supports four 10 Gigabit Ethernet SFP+ backhaul Interfaces on the front panel
SIP 600	<p>SPA Interface Processor 600</p> <p>Supported SPAs: Ethernet SPA-1X10GE-L-V2 Cisco 1-Port 10 GE SPA (XFP IEEE LAN PHY Optics) SPA-5X1GE-V2 Cisco 5-Port GE SPA (SFPOptics) SPA-2X1GE-V2 Cisco 2-Port GE SPA (SFP Optics or built in RJ-45 Ports)</p>
SPA-1X10GE-L-V2	1-Port 10 GIGABIT ETHERNET Shared Port Adapter, Version 2
SPA-5X1GE-V2	2-, 5-, 8-, and 10-Port Gigabit Ethernet Shared Port Adapters, Version 2
uBR MC3GX60V	Broadband Processing Engine with full DOCSIS 3.0 Support 72 x 60 DOCSIS 60 x 60 EuroDOCSIS
SPA-UBR10-DS-HD/6G	High Density Downstream Shared Port Adapter