

Refurbished CISCO UBR7225VXR Datasheet

CISCO > INTERFACES-MODULES

Cisco Broadband Processing Engines

Cisco uBR7225VXR Universal Broadband Router Features and Benefits Summary

Feature	Benefit
High port density	Provides up to 16 upstreams and 4 downstreams ports in a 2-RU form factor.
Standards-based	Supports PacketCable 1.1, DOCSIS 1.1, Euro-DOCSIS 2.0, DOCSIS3.0, Euro-DOCSIS 3.0 and PacketCable Multimedia to protect cable operator investment and help ensure compatibility with next-generation multiservice networks. Layer 3 features are designed to support voice and commercial services. Supports DSG, enabling cable operators to migrate from proprietary to open set-top technology and benefit from technical advantages and continued innovation of the DOCSIS standard.
Investment protection	Cisco uBR-MC88V Broadband Processing Engine supports DOCSIS, Euro-DOCSIS on one line card for lower capital expenditure.
Superior RF front end	Enables cable operators to capture the full potential of their cable spectrum and DOCSIS HFC networks. Cisco uBR-MC88V Broadband Processing Engine uses patented Cisco technology to determine carrier-to-noise ratio values for selected upstream channels.
Cisco IOS Software	Includes diverse routing protocols, quality of service (QoS), and policy-routing features to support differentiated services configuration features such as Dynamic Host Configuration Protocol (DHCP) and Trivial File Transfer Protocol (TFTP); DOCSIS Baseline Privacy Interface (BPI) security.

Hardware Specifications

Compact design suitable for rack-mount (2-RU) or desktop installation	Dimensions of 3.5 x 17.32 x 21.8 in. (8.89 x 44.9 x 55.37 cm) (H x W x D) 45 lb (20.4 kg) Front, mid, and rear mountable in a 19 in. EIA standard rack Depth fully loaded from the tip of cable management bracket to the tip of the uBR-NPE-G2 handle is 26.1 in. (66.29 cm)
Line cards with integrated upconverters/modulators (cable plant interfaces)	Modular design Line card supported: Cisco uBR-MC88V Broadband Processing Engine Physical: Occupies a single slot in the Cisco uBR7225VXR chassis Maximum 2 line cards per uBR7225VXR chassis Hot-swappable; no slot dependency Dimensions (H x W x D): 1.4 x 15.154 x 11.531 in (3.55 x 38.49 x 29.29 cm) Weight: Weight: 6.06 lbs (2.749 kg) Power consumption: 90 watts (307 BTUs per hour) at 25°C Integrated upconverter specifications: High-level output: +62 dBmV, 70M Hz to 1G Hz Optimized for 64 and 256 quadrature amplitude modulation (QAM) Software configurable from 52 to 62 dBmV output power in units of dBmV
Modulation	Downstream: 64-QAM, 256-QAM Upstream: QPSK 8-, 16-, 32-, 64-QAM
Downstream frequency range	DOCSIS: 6 MHz Annex B, 70MHZ-1GHz Euro-DOCSIS: 8 MHz Annex A, 70MHZ-1GHz
Upstream frequency range	DOCSIS: 6 MHz Annex B, 5-42 MHz Euro-DOCSIS: 8 MHz Annex A, 5-65 MHz
Compatible Cisco Network Processing Engines (NPEs)	The Cisco uBR7225VXR currently must contain one uBR7200-NPE-G2 processor that must have at least 1GB of DRAM. If it contains more than one BPE, Cisco recommends installing 2 GB of DRAM on the uBR7200-NPE-G2 to ensure best performance. FE/GE ports availability: 3 GE ports (UBR-NPE-G2).

Included AC power supply	<p>Single or dual redundant power supplies 100 to 240 VAC input, 50/60 Hz frequency 6.5 A maximum AC input current 540W (maximum) output AC-input cable: 18-QEG4 3-wire cable with 3-lead IEC-320 receptacle on power supply end and country-dependent plug on power source end</p>
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Physical and Environmental Specifications

Operating temperature	32 to 104°F (0 to 40°C) operating; -4 to 149°F (-20 to 65°C) nonoperating
Airflow	125 cfm5 (side to side cooling)
Humidity	10% to 90% non-condensing
Safety approvals	UL/CSA/IEC/EN 60950-1 and AS/NZS 60950.1
EMI/EMC regulatory and compliance	<p>Emissions: FCC 47CFR 15 Class A, ICES 003 Class A, CISPR22 Class A, EN55022 Class A, VCCI Class A, AS/NZS CISPR22 Class A, EN61000-3-3, EN61000-3-2. Immunity: EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN55024; EN50082-1/EN61000-6-1, EN 300386.</p>

Software Features

Software compatibility	Cisco IOS Software Release 12.2SB minimum to support PCMM, admission control, Advanced Mode DSG, and Service Independent Intercept (SII)
IPv6	<p>CM Provisioning & Management using IPv6 IPv6 Multicast for control plane ACLs Virtual interface bundle DMIC Cable monitor Cable source verify BPI+ DOCSIS state machine with MDD MDD config. per interface DHCPv6/4 relay agent and VIVSO options Cable CLIs impacted by IPv6 FQDN display in CLIs Select MIBs IPv6 MIB retrieval over IPv4 transport Cable filters SNMP over IPv6 transport Syslog over IPv6 Domain name for IPv6 CM Telnet access over IPv6 TFTP file download for IPv6 Ping for IPv6 Traceroute for IPv6 SSH over an IPv6 transport HTTP access over IPv6 CPE IPv6 services IPv6 Multicast for data plane DOCSIS QoS DOCSIS Set-top Gateway eRouter spec. compliance DHCP leased query Cable Intercept Lawful Intercept IPv6 supports over PXF path Additional MIBs DOCSIS 3.0 CMs Interoperability</p>
L2VPN	<p>DOCSIS CM config file based L2VPN provisioning (vs CLI provisioned) Multiple L2VPNs (up to 4) per CM QoS support using service flows (US and DS) DUT Filtering eSAFE Host Exclusion using CMIM (for compliant CMs) BPI+ encryption using primary SAID 802.1q based PseudoWire L2 Classifier for L2VPN traffic (CMIM mask, Priority) SNMP MIB (DOCS-L2VPN-MIB) and CLI support Dynamic Service requests (DSX) support BPI+ encryption with L2VPN SAIDs eSAFE DHCP snooping support Radar items: support for Ether-channel as NSI; support for vendor specific encoding in CM configuration file (to specify WAN interface)</p>

AToM and L2TPv3 PW
Point-to-Multipoint L2VPN

Multicast enhancements

DOCSIS 3.0 Multicast QoS addresses various limitations in the current Multicast QoS implementation (for instance, QoS can now be applied to sub-interfaces and VPNs), allowing a single QoS template to be applied to multiple multicast streams
Intelligent Multicast Admission Control (AC):
Integrates Multicast QoS with Unicast QoS under unified control model, simplifying operation
Multicast service flows are deleted once all multicast streams stop and all members go away, helping operators reclaim bandwidth
Option to disable IP Multicast echo per cable bundle allows operators to hide subscriber-generated multicast traffic from other subscribers on the same cable subnet

Multicast in MPLS VPN / L3 VPN (mVPN) service (with BPI+)

IP multicast support for MPLS/L3 VPN VRF
Ability to track and isolate streams and membership within a VPN by encrypting the multicast stream with unique BPI SAIDs and keys across VPNs

CMTS Service Independent Intercept (SII)

Transparency for data intercept (unlike cable-intercept)
Common architecture for voice and data
Controlled by Mediation Device, not call control equipment
Separates lawful intercept control from call control
Open interface for Mediation Device and Call Control partners
Documented in IETF Informational RFCs
Support for TAP2-MIB extensions requested by LEAs
Addresses PCMM scenarios for CPE behind CMs
Support for MPLS networks that segregate voice and data

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