

Refurbished CISCO UPG-U7246VXR-88V Datasheet

CISCO > INTERFACES-MODULES

Cisco Broadband Processing Engines

Features and Benefits	
Category	
High port density with frequency stacking	Provides easy upgrade path from Cisco uBR-MC28U with minimal cable wiring change Reduces per-port cost
Onboard spectrum analyzer hardware	Reduces return-path monitoring costs Enhances remote troubleshooting capabilities Improves operational efficiency
Dedicated MAC layer hardware	Provides hardware acceleration of DOCSIS (3.0/2.0/1.x) features Enables scalability of data and voice deployment Optimizes cable modem registration time Provides hardware-based Layer 2 QoS Allows use of best-of-class PHY
DOCSIS and Euro DOCSIS support on one line card	Provides operational savings Lowers capital expenditures (CapEx)
DOCSIS 3.0 IPDR/SP	Enables efficient and reliable delivery of high-volume data records from the service elements to any systems, such as mediation systems and BSS/OSS
AToM pseudowire for cable L2VPN	Transports Ethernet frames over an MPLS network Extends the existing DOCSIS Layer 2 VPN feature
S-CDMA and logical channel	Increases protection against electronic impairments, allowing for a more robust operating environment Improves S-CDMA ingress and impulse noise immunity
Wideband modem resiliency	Provides the best possible service in the event of non-primary radio frequency channel disruptions

Product Specifications	
Description	Specification
Physical	Occupies a single slot in the Cisco uBR7200VXR chassis Maximum two line cards per uBR7225VXR chassis and four line cards per uBR7246VXR 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: 6.06 lbs (2.749 kg)
Power consumption	90 watts (307 BTUs per hour) at 25°C
RF output power range	52 to 62 dBmV
Modulation	Downstream: 64-QAM, 256-QAM Upstream: QPSK 8-, 16-, 32-, 64-QAM
Downstream frequency range	DOCSIS: 6 MHz Annex B, 69MHz-999MHz Euro-DOCSIS: 8 MHz Annex A, 69MHz-999GHz
Upstream frequency range	DOCSIS: 6 MHz Annex B, 5-42 MHz Euro-DOCSIS: 8 MHz Annex A, 5-65 MHz
Environmental	Operating altitude: -197 to 13123 ft (-60 to 4000m) Storage temperature: -4 to 149°F (-20 to 65°C) Operating temperature, nominal: 41 to 104°F (5 to 40°C) Storage relative humidity: 5 to 95 percent Operating relative humidity: 10 to 90 percent
Safety	UL/CSA 60950-1 (Safety of Information Technology Equipment, Including Electrical Business Equipment) EN 60950-1 / IEC 60950-1 (Safety of Information Equipment Technology, Including Electrical

	Business Equipment) ACA TS001, 1997 Test Report and Statement of Compliance AS/NZS3260
Electromagnetic emissions	EN55022: 1998 Class B CISPR 22: 1997 Class B CFR 47 Part 15 Class B ICES -003, Issue 2, Class B, April 1995 VCCIV-3/2000.04 AS/NZS 3548: 1995 Class B CNS-13438 Class B-BSMI (BCIQ) in Taiwan
Electromagnetic immunity	EN50082-1: 1992 EN50082-1: 1997 EN55024: 1998 EN61000-3-2: 1995 EN61000-3-3: 1995 EN61000-4-2: 1995 [including AMD1 + AMD2] ESD immunity EN61000-4-3: 1997 Radiated RF field immunity EN61000-4-4: 1995 Immunity to electrical fast transients EN61000-4-5: 1995 Surge immunity EN61000-4-6: 1996 [including AMD1] RF conducted immunity
Network Equipment Building Systems (NEBS) - Level 3	Designed and tested to meet requirements of GR-1089-CORE - Issue 2, December 1997 Revision 1, February 1999
Mechanical	IEC 68-2-1, IEC 68-2-2, IEC 68-2-56: Operational Temperature and Humidity IEC 68-2-41: Operational Altitude IEC 68-2-27: Operational Shock IEC 68-2-64, IEC 68-2-6, IEC 68-2-47: Operational and Nonoperational Vibration IEC 68-2-40: Nonoperational Altitude IEC 68-2-27, IEC 68-2-32: Nonoperational Shock IEC 68-2-3: Nonoperational Humidity IEC 68-2-1, IEC 68-2-2: Nonoperational Temperature IEC 68-2-14, IEC 68-2-33: Nonoperational Temperature Shock
LEDs	One power LED (green) One upstream-enabled LED on each upstream port (green): upstream path is configured and able to pass traffic One downstream-enabled LED on each downstream port (green): downstream path is configured and able to pass traffic through the upconverter at the radio frequencies
Minimum Cisco IOS Software Release	Cisco IOS Software Release 12.2SC minimum to support PCMM, admission control, Advanced Mode DSG, and SII Cisco IOS Software
Compatible Cisco Network Processing Engines (NPEs)	To operate Cisco uBR7200 Series uBR-MC88V BPE, the Cisco uBR7200VXR must contain a uBR7200-NPE-G2 processor. The uBR7200-NPE-G2 must have at least 1 GB of DRAM.
Standard Management Information Bases (MIBs)	IF-MIB (RFC-2233) ENTITY-MIB (RFC-2737) MIBII (RFC1213) EtherLike-MIB (RFC-2665) IGMP-MIB (RFC-2993) RMON-MIB (RFC-1757) IP-MIB IP-FORWARD-MIB(RFC-4292) ENTITY-SENSOR-MIB
Expression MIBs	SNMPv2-SMI SNMPv2-TC SNMPv2-MIB IANAifType-MIB
DOCSIS and Euro-DOCSIS MIBs	DOCS-IF-MIB (RFC 4546) DOCS-CABLE-DEVICE-MIB (RFC-2669) DOCS-BPI-PLUS-MIB (Rev 5) DOCS-QOS-MIB (Rev 4) DOCS-CABLE-DEVICE-TRAP-MIB DOCS-SUBMGT-MIB (Rev 2) DOCS-IF3-MIB DOCS-QOS3-MIB DOCS-DRF-MIB DOCS-LOADBAL3-MIB DOCS-DIAG-MIB DOCS-SUBMGT3-MIB CLAB-TOPO-MIB DOCS-MCAST-AUTH-MIB DOCS-MCAST-MIB DOCS-SEC-MIB DOCS-IETF-BPI2-MIB DOCS-IETF-QOS-MIB
Cisco DOCSIS MIBs	CISCO-DOCS-EXT-MIB

	CISCO-DOCS-REMOTE-QUERY-MIB CISCO-DOCS-QOS-EXT-MIB CISCO-CABLE-SPECTRUM-MIB CISCO-CABLE-AVAILABILITY-MIB CISCO-CABLE-WIDEBAND-MIB
Cisco generic MIBs	CISCO-SYSLOG-MIB CISCO-SMI-MIB CISCO-TC-MIB CISCO-PRODUCTS-MIB CISCO-FLASH-MIB CISCO-CONFIG-MAN-MIB CISCO-CONFIG-COPY-MIB CISCO-MEMORY-POOL-MIB CISCO-BULK-FILE-MIB CISCO-SONET-MIB CISCO-TCP-MIB CISCO-RTTMON-MIB CISCO-FTP-CLENT-MIB CISCO-IPMROUTE-MIB CISCO-QUEUE-MIB CISCO-IMAGE-MIB CISCO-ENVMON-MIB CISCO-ENTITY-VENDORTYPE-OID-MIB CISCO-PRODUCTS-MIB

System Requirements	
Item	Requirement
Fan Tray	uBR7246VXR needs new fan tray to accommodate uBR-MC88V
Power Supplies	uBR7225VXR needs new power supplies to accommodate uBR-MC88V
NPE Requirement	uBR7200-NPE-G2 is required
Hardware Compatibility	uBR-MC88V will be compatible with the uBR7225VXR and uBR7246VXR chassis and will not be backward compatible with older chassis such as uBR7246 and uBR7223. In addition, the new uBR-MC88V will only be supported by uBR7200-NPE-G2 and will not be able to coexist with the existing cable line cards in both the uBR7225VXR and uBR7246VXR chassis. It does not support port adaptors or clock card and I/O controller in the same chassis with uBR-MC88V.
Memory	At least 1 GB of DRAM is required for Cisco IOS Software
Software	Cisco IOS Software Release 12.2(33)SCD is required

The next steps...

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