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Refurbished CISCO UBR-MC20X20V-0D Datasheet

CISCO > INTERFACES-MODULES

Cisco Broadband Processing Engines

Product Features and Benefits

Feature	Benefits
High port and channel density	Reduces per-port cost Provides easy upgrade path from the Cisco 5x20H BPE
Upstream features	Operates up to 65 MHz (EuroDOCSIS mode) Supports up to two frequencies per port
Dense connector	Reduces installation time Reduces mean time to repair (MTTR)
Onboard spectrum analyzer hardware	Reduces return-path monitoring costs Enhances remote troubleshooting capabilities
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 physical layer (PHY)
DOCSIS, EuroDOCSIS, and extensions to support DOCSIS operations in Japan	Provides operational savings Lowers capital expenditures (CapEx) Increases flexibility
Compatible with the Cisco uBR 3x10 RF Switch	Provides line card redundancy for carrier-class operation
Interoperation with Cisco 5x20H and Cisco 5x20U	uBR-MC20X20V can interoperate with the 5x20H/5x20U in the same uBR10012 chassis uBR-MC20X20V can act as Protect for both 5x20H/5x20U in the same uBR10012 chassis

Product Specifications

Regulatory Compliance

Safety	CAN/CSA-C22.2 No. 60950-1 1st ed. / UL 60950-1 1st ed. (Safety of Information Technology Equipment) EN/IEC 60950-1 (Safety of Information Technology Equipment) AS/NZS 60950.1 (Safety of Information Technology Equipment)
Electromagnetic Emissions	EN55022, Class B CISPR 22, Class B FCC 47CFR15, Class B ICES-003, Class B VCCI, Class B AS/NZS CISPR 22, Class B KN 22, Class B IEC/EN61000-3-2 Power Line Harmonics IEC/EN61000-3-3 Voltage Fluctuations and Flicker
Electromagnetic Immunity	IEC/EN61000-4-2 Electrostatic Discharge Immunity IEC/EN61000-4-3 Radiated Immunity IEC/EN61000-4-4 Electrical Fast Transient Immunity IEC/EN61000-4-5 Surge IEC/EN61000-4-6 Immunity to Conducted Disturbances IEC/EN61000-4-11 Voltage Dips, Short Interruptions, and Voltage Variations
ETSI/EN	EN 300 386 Telecommunications Network Equipment (EMC) EN55022 Information Technology Equipment (Emissions) EN55024 Information Technology Equipment (Immunity) EN61000-6-1 Generic Immunity Standard

Network Equipment Building Systems (NEBS): Level 3	Designed to meet requirements of: GR-63-CORE, Issue 3, March 2006 GR-1089-CORE, Issue 4, June 2006
Mechanical	Weight: 16 lb (7.26 kg) Dimensions (H x W x D): 20 x 1.36 x 16 in. (50.80 x 3.55 x 40.64 cm) Operating altitude: -197 to 13,123 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% Operating relative humidity: 10 to 90% IEC 68-2-1, IEC 68-2-2, IEC 68-2-56: Operational temperature and humidity IEC 68-2-27: Operating shock IEC 68-2-64, IEC 68-2-6, IEC 68-2-47: Operating and non-operating vibration IEC 68-2-32: Non-operating freefall drop IEC 68-2-40: Non-operating altitude IEC 68-2-27, IEC 68-2-32: Non-operating mechanical shock IEC 68-2-3: Non-operating humidity IEC 68-2-14, IEC 68-2-33: Non-operating temperature shock

Network Management Information

Standard MIBs	IF-MIB (RFC-2233) IP-FORWARD-MIB (RFC-4292) ENTITY-MIB (RFC-2737) MIBII (RFC1213) EtherLike-MIB (RFC-2665) IGMP-MIB (RFC-2993) RMON-MIB (RFC-1757) IP-MIB ENTITY-SENSOR-MIB
Expression MIBs	SNMPv2-SMI SNMPv2-TC SNMPv2-MIB IANAifType-MIB
Simple Network Management Protocol Version 3 (SNMPv3) MIBs	SNMP-FRAMEWORK-MIB (RFC-2571) SNMP-MPD-MIB (RFC-2572) SNMP-NOTIFICATION-MIB (RFC-2573) SNMP-TARGET-MIB (RFC-2573) SNMP-USM-MIB (RFC-2574) SNMP-VACM-MIB (RFC-2575)
DOCSIS and EuroDOCSIS MIB	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-DOCS-EXT-CAPABILITY-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	
Power Supplies	Dual AC or DC PEMs must be installed at all times
Hardware	Dual Cisco UBR10-DTCC are required
Flash Memory	At least 1 GB of Flash memory is required for Cisco IOS Software
Software	Cisco IOS Software Release 12.2(33)SCC is required

The next steps...

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