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Refurbished CISCO CAB-RFGW3G60QTIMF Datasheet

CISCO > VIDEO

Cisco RF Gateway Series

Features and Benefits

Video

Concurrent support for Digital Video Broadcast, SDV, VoD, and NDVR	Supports a very wide variety of video solution architectures
Concurrent support for standard and high-definition services	Achieves greater investment protection through the flexibility to evolve as service and capacity requirements change
Concurrent support for multiple video encoding formats, including MPEG-2 and MPEG-4/H.264	Can maximize QAM channel utilization

DOCSIS

Designed to meet CableLabs DOCSIS 3.0 and M-CMTS specifications	Industry-recognized common specifications with multivendor interoperability
Fully tested with the Cisco uBR10012 M-CMTS solution	Full-featured and tested end-to-end M-CMTS solution offering stability, scalability, and availability

Universal Edge QAM

Concurrent support for video and DOCSIS on the same line card	Allows amortization of expenditures for video and DOCSIS edge QAM resources by sharing a common platform and universal edge QAM line card
Standards-based universal edge QAM resource management	Designed to support CableLabs-defined universal edge QAM specification for multiple vendor interoperability
Concurrent support for Annex A, B, and C operations on the same line card	Can support mixed annex environments on the same line card with granularity per port (for example, Annex B for DOCSIS, Annex A for video)
384 QAM channels per line card, 640 replicated QAMs per line card, up to 128 QAMs per port, up to 10 line cards per Cisco RF Gateway 10 chassis (up to 3840 QAMs per chassis)	High capacity edge QAM solution reduces the total number of devices to manage and provides
Non-adjacent frequency support	Allows flexibility on assigning output frequencies
Optional integrated Cisco PowerKEY and Digital Video Broadcasting (DVB) encryption	Minimizes cost and complexity of deploying encrypted services

Operations and Management

Software based on QNX microkernel-based real-time, high-performance operating system	As in the Cisco Carrier Routing System 1 (CRS-1) range of products, QNX is the basis of the Cisco RFGW-DS384 software architecture, providing a very stable, scalable, and efficient operating system

Product Specifications

Hardware Specifications

Physical	Occupies a single RF slot in the Cisco RF Gateway 10 chassis
RF ports	8 RF ports with up to 128 QAM channels per port for a total of 384 QAMs
Dimensions (H x W x D)	1.28 x 15.35 x 15 in. (33 x 390 x 381 mm)
Weight	9.5 lb (4.32 kg)

Power consumption	270W
Environmental	Operating altitude: -60 to 3000m Storage temperature: -40 to 158°F (-40 to 70°C) Operating temperature, nominal: 32 to 104°F (0 to 4 0°C) Operating relative humidity: 10 to 85%, noncondensing

Ethernet Uplink Interfaces

Uplinks	2 x Gigabit Ethernet and 2 x 1 Gigabit Ethernet or 10 Gigabit Ethernet

Video Specifications

Video format	MPEG-2 SPTS and MPTS encapsulated in User Datagram Protocol (UDP)/IP (RFC-768) Up to seven 188-byte MPEG-2 packets per UDP datagram MPEG-2 and MPEG-4/H.264 content Standard and high definition Constant bit rate (CBR) and variable bit rate (VBR)
Video processing	Packet Identification (PID) remapping Program Clock Reference (PCR) restamping Program Specific Information (PSI) extraction, generation, and insertion Multiple program transport stream (MPTS) passthrough Stream replication Session statistics
Video redundancy	Redundant source failover Link redundancy
Multicast	IP multicast routing protocols: Protocol Independent Multicast (PIM), including sparse mode and dense mode Source Specific Multicast (SSM) and Any Source Multicast (ASM) Internet Group Management Protocol (IGMP)
Dejitter buffering	300 ms, configurable

RF Specifications

DOCSIS Downstream RF Interface (DRFI)	CM-SP-DRFI-I10-100611

System Requirements

Chassis compatibility	Cisco RFGW-10
Software	Cisco IOS XE Software version 3.2.0 SQ

Regulatory Compliance

Network Equipment Building Standards (NEBS) and European Telecommunications Standards Institute (ETSI)	UL 60950CAN/CSA-C22.2 No. 60950, EN 60950, IEC 60950, TS 001, AS/NZS 3260
Electromagnetic compatibility (EMC)	FCC Part 15 (CFR 47) Class A, ICES-003 Class A, EN55022 Class A, AS/NZS CISPR22 Class A, AS/NZS 3548 Class A, VCCI Class A, ETS 300 386, EN 55022, KN22, EN 61000-3-2, EN 61000-3-3
Electromagnetic interference (EMI)	EN550082-1, EN55024, EN61000-4-2, EN61000-4-3, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11, EN61000-6-1
Safety	GR-1089-Core Level 3, ETS 300 019 Storage Class 1.1, ETS 300 019 Transportation Class 2.3 (pending), ETS 300 019 Stationary Use Class 3.1, ETS 300 386
Industry EMC, safety, and environmental standards	Designed to meet NEBS standard GR-63-CORE and GR-1089-CORE
Other industry standards	Cisco corporate compliance standards

The next steps...

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