

DESCRIPTION

Radiant's Eclipse Series leverages advanced engineering and intelligent, user-friendly design to rapidly and cost-effectively deploy all-digital lineups to low-cost digital set-tops. Affordable for systems of all sizes, the Eclipse Series is ideal for MDUs, hotels, hospitals, gated communities, casinos, and retirement centers.

QRF5000 Wall mount - brings the performance and ease-of-use of the rack mount QRF5000, to a convenient wall mount enclosure.

The Ruggedized housing, ideal for MDU locations, includes a heavy duty enclosure with the ability to lock shut to enhance security.

Within the housing, an internal notch filter can be mounted for use in applications where local services will be multiplexed onto existing digital QAM's. Additionally, there is room for mounting an internal cable modem to monitor status and provide upgradeability to the remotely installed QRF5000.

Like other members of the QRF5000 family, Radiant's QRF5000 Wall mount is an embedded, hardware-based solution compliant with all relevant industry standards. It was built with the operator in mind—a simple to use front panel provides complete control over the platform, while an IP interface allows for an external modem to provide remote functionality. The feature-rich platform consumes little power and generates less noise.

▶ QRF5000W - Wall Mount Digital QAM Channel Inserter

▶ BENEFITS

- Cost effective, integrated, single box solution
- Accepts Internal Notch Filter and Cable Modem
- Field Expandable up to 4 Channels
- Optional internal RF Bypass

▶ FEATURES

- Identical performance to standard QRF5000 rack mount in a ruggedized, lockable, wall mountable enclosure.
- Easily configured via Front Panel, Easy to Use GUI, or Web Browser.



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3/2008



QRF5000W

Wall Mount Digital QAM Channel Inserter

SPECIFICATIONS (refer to QRF5000 for common detailed specifications)

Video
 Baseband Video Up to 4 Video
 Connectors BNC or S-Video
 Video Compression MPEG-2
 Video Bit Rate 1.5 - 15 Mbps
 Resolution DI, 3/4 DI, 2/3 DI, 1/2 DI

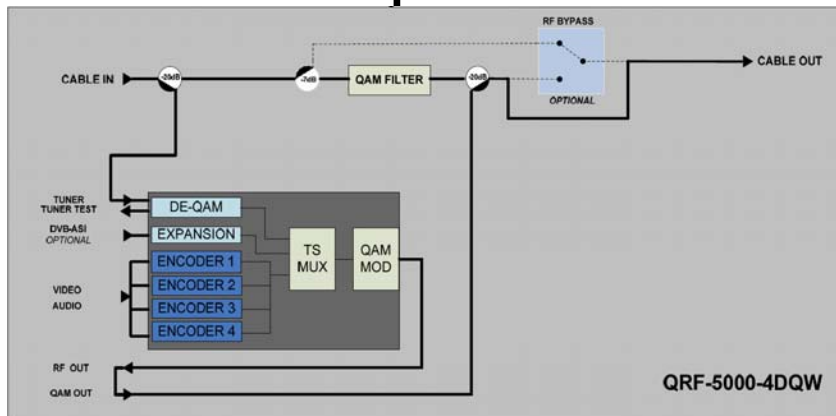
Audio
 Connectors Up to 4 Stereo Audio
 Stacked RCA
 Audio Compression Dolby Digital
 Audio Sample Rate 32, 44.1, 48 kbps
 Audio Bit Rate 128 - 256 kbps

RF Input
 Connector: F-Type
 Impedance: 75 Ohms
 Return Loss: 12 dB
 Frequency Range: 54MHz—864MHz
 Frequency Step Size: 62.5 KHz
 ITU Mode: Annex B 64 QAM, 256 QAM
 Input Power Range:
 64 QAM -17dBmV—+23dBmV
 256 QAM -12dBmV—+18dBmV
 Oscillator Leakage: < 26dBuV typical
 Min required CNR:
 64 QAM 25.5dB
 256 QAM 32.5dB

General Characteristics
 Power: 31 W @ 90 to 240V AC
 Operating Temperature: 0° to 50° C
 Storage Temperature: -40° to 70° C
 Altitude 20,000 ft@ 21° C
 Size: 13.0" W x 9.0" D x 11.0"H
 Configuration: Lockable WallMount MDU
 Weight: 14 pounds

Output
 QAM 64 or 256 per ITU-J.83 Annex B downstream standards
 RF Output port One contiguous QAM modulated RF channel on 1 RF
 RF Output Level 44 - 58 dBmV Front Panel Controlled
 RF Output Adjustment Step Size 0.5 dBmV
 RF Output Accuracy +/- 2 dB +/- 5000 Hz
 RF Output Stability +/-1 dB relative to RF Output level RF Output Return Loss
 >14 dB 177 - 750 MHz
 >13 dB 750 - 870 MHz
 Frequency Range - Agile - 57 MHz (Ch 2) to 873 MHz (Ch 137)
 RF Muting Ratio >65 dB
 In-Channel Spurious and Noise >35 dB Unequalized MER
 >41 dBc Equalized MER

Certifications
 EMC Directive: 89/336/EEC
 Generic Emissions Standard: EN61000-6-3:2001
 Product Specific Emissions: EN55022 Class A, FCC Part 15 Class B
 EN 61000-6-1:2001
 Generic Immunity Standard: EN 61000-4-2
 Electrostatic Discharge: EN 61000-4-3
 Radiated Susceptibility: EN 61000-4-4
 Electrical Fast Transient/Burst: EN 61000-4-5
 Surge: EN 61000-4-6
 Conducted Susceptibility: EN 61000-4-11
 Voltage Dips and Interruptions: EN 61000-3-2
 Harmonic Current: EN 61000-3-3
 Voltage Fluctuations & Flicker: EN 61000-3-3
 ASTM D4169-Distribution Cycle 13- Assurance Level I Schedule A: Handling
 ASTM D4169-Distribution Cycle 13- Assurance Level I Schedule C: Vehicle Stacking
 ASTM D4169-Distribution Cycle 13- Assurance Level I Schedule F: Loose Load Vibration
 ASTM D4169-Distribution Cycle 13- Assurance Level I Schedule E: Vehicle Vibration
 MIL-STD-810 Method 507.2 Procedure III-Aggravated Humidity
 HALT Testing -10 to +70 degrees C @ 4g, 8g & 12g
 IEEE C62.41 Surge Resistance Test ± 1000V on video inputs
 RoHs compliant



ORDERING INFORMATION

PART NUMBER	DESCRIPTION
QRF5000-XW	Digital QAM Channel Inserter - Wall Mount

Note:

- Due to product enhancements, specifications are subject to change without notice



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