QRF5005 ASI to QAM Channel Inserter

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.

QRF-5005 Encoder - a plug-and-play device that encodes local ASI channels and multiplexes them with a built-in QAM modulator and a broadcast agile RF up-converter for distribution into existing cable network.

With digital services increasingly being used to deliver video to the home, operators are focused on enhancing the subscriber's viewing experience by increasing the variety of services they offer and improving quality, while still maintaining a cost-efficient and easy-to-manage infrastructure.

Radiant's QRF5005 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.

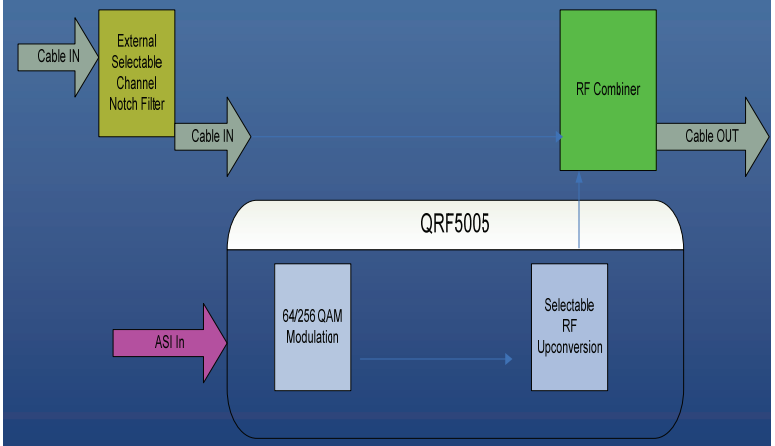
With its standard 64 or 256 QAM output and ASI interfaces, the QRF5005 is capable of integrating in any existing headend or residential environment.

FEATURES

- Convert ASI to QAM
- Flexible channel selection capability
- 64 QAM and 256 QAM Selectable Output

BENEFITS

- Cost effective, integrated, single box solution
- Deliver all digital solution
- Low power consumption—less than a light bulb



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3/2008

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SPECIFICATIONS

ASI Input

Connectors	BNC
Video	1 volt peak -peak nominal
AGC Range	-6 db minimum to +3db maximum
Input Impedance	75 Ohm

General Characteristics

Power:	31 W @ 90 to 240V AC
Operating Temperature:	0° to 50° C
Storage Temperature:	-40° to 70° C
Size:	19.0" W x 12.0" D x 1.75"
Weight:	5.5 pounds

Output

QAM 64 or 256 per ITU-J.83 Annex A,B and C downstream standards

RF Output	One contiguous QAM modulated RF channel on 1 RF port
RF Output Level	44 - 62 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 -	93 MHz (Ch 7) to 876 MHz (Ch 137)
RF Muting Ratio	>65 dB
In-Channel Spurious and Noise	>35 dB Unequalized MER >41 dBc Equalized MER

Testing Results

UL: IEC 60950-1:2001, First Edition

EMC Directive: 89/336/EEC

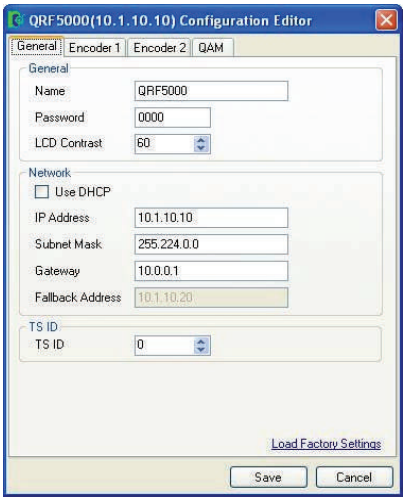
Generic Emissions Standard:	EN61000-6-3:2001
Product Specific Emissions:	EN55022 Class A, FCC Part 15 Class B
Generic Immunity Standard:	EN 61000-6-1:2001
Electrostatic Discharge:	EN 61000-4-2
Radiated Susceptibility:	EN 61000-4-3
Electrical Fast Transient/Burst:	EN 61000-4-4
Surge:	EN 61000-4-5
Conducted Susceptibility:	EN 61000-4-6
Voltage Dips and Interruptions:	EN 61000-4-11
Harmonic Current:	EN 61000-3-2
Voltage Fluctuations & Flicker	EN 61000-3-3

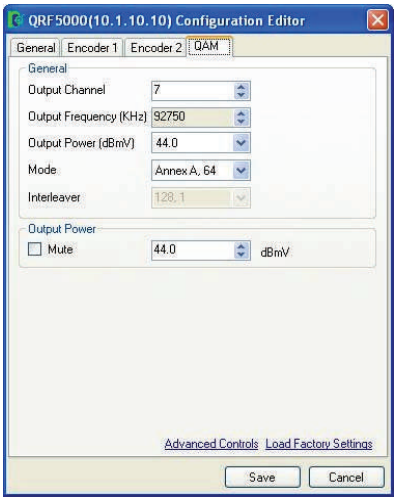
Environmental:

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
Altitude 20,000 ft @ 21 degrees C
Vibration 10-30 Hz .39" 30 minute cycles
Thermal Shock -40 degrees to +60 degrees C
HALT Testing -10 to +70 degrees C @ 4g, 8g & 12g
IEEE C62.41 Surge Resistance Test ± 1000V on video inputs
RoHs compliant

QRF-5005 BACK PANEL

REP MANAGER SOFTWARE





ORDERING INFORMATION

PART NUMBER	DESCRIPTION
QRF5005	ASI to QAM Channel Inserter

Note:

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

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