

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-5200 Channel Deletion Unit - allows the operator to receive the existing RF transport from the headend and then drop and/or add a locally encoded service. This functionality enables the operator to not only reuse the RF spectrum by reutilizing existing frequencies, but also, since mapping the new service to pre-defined program IDs, the current Set Top Box channel map can remain.

Designed to work in conjunction with Radiant's QRF5000 via an ASI input/output that allows the operator to easily integrate the digital MDU channels into the existing lineup by adding the locally encoded services to existing QAM-RF transport stream. The QRF5000 featuring standard definition encoding, with features as MPEG-2 multiplexing, ASI Input/Output and QAM modulation and upconversion, the QRF5000 allows operators to transition existing analog residential sources (such as security, training and local channels) into digital, improving the user experience and allowing the operator to deploy digital-only set-top boxes instead of higher cost digital-analog tuners.

With bandwidth being as valuable as some precious metals these days the Radiant Eclipse series further decreases operational overhead costs allowing operators to make the transition to digital, with an ideal, flexible and future-proof path to the a all -digital domain.

Current solutions are either composed of software, or multiple components. Low-end PC-based residential encoding provides a partial solution, with limited encoding horse power, while requiring increased space and power. Multiple component solutions, while they may include high quality components, generally incur higher operational and actual expenses.

Radiant's QRF5200 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. In addition, it is designed to be placed anywhere in the building, from the basement to the lobby.



Radiant Communications Corporation

QRF5200 Digital Channel Replacement

BENEFITS

Removes digital channel(s) and allows for insertion of new channel(s) on digital lineups

Allows system to provide specific local programming

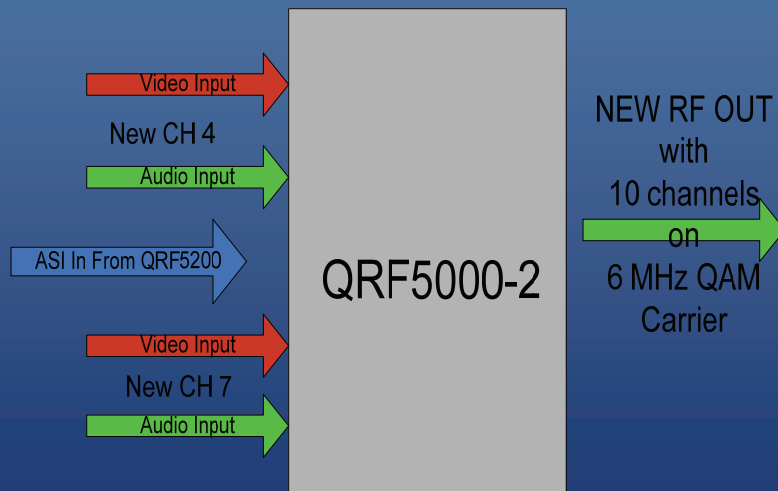
Cost effective, integrated rackmount solution

FEATURES

Easy to use GUI Interface

ASI Output

Designed for Gated Communities, MDU's, Hotels



Phone: 908 757 7444 or 800 969 3427
Fax: 908 757 8666
E-mail: sales@rccfiber.com
www.rccfiber.com

P.O. Box 867
South Plainfield
NJ 07080
USA

5/2007

▶ QRF5200 Digital Channel Replacement

The QRF5200 takes an RF input from a QAM channel, allows you to strip out existing channel (s) and output the new transport stream via ASI. For example, say you have 10 services on the selected QAM. You decide which of the services to keep and which will be eliminated via a front panel GUI or external Ethernet interface. The output of the QRF5200 will only have the selected services and now the output can be inserted back into a QAM Encoder for transport to the customers.

Using a Radiant QRF5000 you will be able to include new baseband audio and video signals in the channel space of the removed service. This allows for efficient use of bandwidth. The encoded signals are then multiplexed onto a transport stream for QAM encoding and selectable RF upconversion for reinsertion onto the local system to provide channels to the new digital lineup. There are numerous adjustments and options that are user controllable via the soft touch front control panel including selecting the output channel along with the output power levels for insertion onto the local system to provide channels to the new digital lineups. Designed for simple and easy installation into an existing facility.



SPECIFICATIONS

Input

RF

Connector:	F-Type
Impedance:	75 Ohms
Return Loss:	12 dB
Frequency Range:	57MHz—861MHz
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

Output

ASI—Coaxial Transport / Communications Link

Connector:	BNC
Impedance:	75 Ohms
Length:	100 feet maximum

RS232 Communication

Connectors:	DB9
Baud Rate:	115,200
Usage Com1:	CLI
Com2:	Diagnostics

General Characteristics

Power:	10.5 W @ 90 to 240V AC
Operating Temperature:	0° to 50° C
Storage Temperature:	-40° to 70° C
Size:	17.0" W x 12.0" D x 1.75" H
Weight:	4.5 pounds



QRF5200

QAM Channel Deletion Device

Note:

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



**Radiant
Communications
Corporation**

Phone: 908 757 7444 or
969 3427
Fax: 908 757 8666
E-mail: sales@rccfiber.com

800

P.O. Box 867
South Plainfield
NJ 07080
USA

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