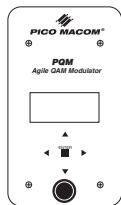


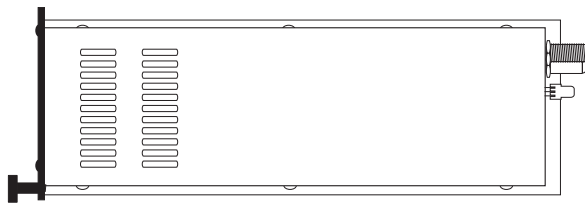
Headend & Electronics

PQM Agile QAM Modulator

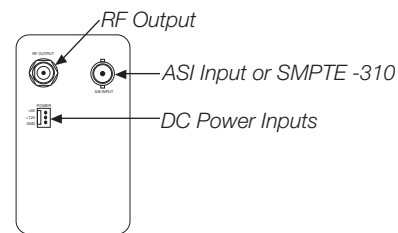
- Professional quality Agile QAM Modulator and Up-Converter
- Modular design allows 6 or 8 modulators in 2 RU
- Accepts DVB-ASI input
- RF output channels 2~135 (54~860MHz)
- Minimum 45 dBmV output level
- ANNEX B and Annex A support
- Supports fixed and auto clock mode
- QAM Modes Supported: 64, 128, 256
- Null packets stuffing and PCR corrections provided
- Programmable by channel or frequency
- Loss of transport input stream alarm
- Built in CW Test mode
- Used with MPC-12, MPC-12R, or MPC-16PS/CS (chassis and power supply)



Front View



Side View



Rear View

Specifications

QAM MODES

Annex A	16, 32, 64, 128 & 256
Annex B	64 & 256

Symbol Rate

1 to 7 Mbaud

Input

ASI

FEC Encoder

ITU-T J.83 ANNEX B (DigiCipher® II,
ITU-T J.83 ANNEX A (DVB)

Spectral Inversion

Auto Recognition

Carrier Suppression

>53 dB

MER

40 dB minimum

I/Q Phase Error

<1°

I/Q Amplitude Imbalance

<1%

QAM RF OUTPUT SPECIFICATIONS

Frequency Range	54 to 860 MHz
RF Output Channel	2-135
Output Level	45 dB minimum
Output Level Control Range	15dB
In-band QAM RF flatness	± 0.5dB
QAM RF Amplitude Flatness	.9 dB maximum (54 to 860 MHz)
Output Impedance	75Ω
Phase Noise @ 10 KHz Offset	-105 dBc/Hz
Frequency Stability	±5 KHz
Broadband Noise	-75 dBc
Spurious Output	-60 dB minimum (54 to 1000 MHz)
Group Delay	<10 ns
Connectors	F-type
ASI Input	BNC 75Ω
RF Output	F type, Female

CONNECTORS

Power Headers 3 Pin, 5 VDC, 12 VDC, and Gnd

POWER REQUIREMENT

Voltages	5, 12 VDC
Power Consumption per Module	6.5 Watts, and 6 modules, 39 Watts
Operating Temperature Range	0 to 50 °C

MECHANICAL

Dimensions	2" (W) x 10" (D) x 3.5" (H)
Weight	1.6 lbs.

Ordering Information

PQM Agile QAM Modulator