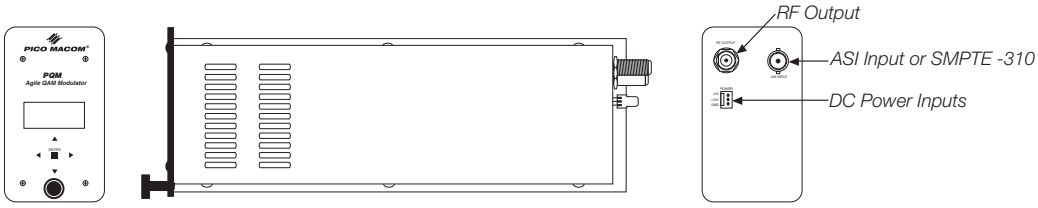
PICO DIGITAL™

PQM

Agile QAM Modulator

Features

- 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 to 135 (54 to 860 MHz)
- 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 to 135
Output Level	45 dB minimum
Output Level Control Range	15 dB
In-band QAM RF flatness	± 0.5dB
QAM RF Amplitude Flatness	.9 dB maximum (54 to 860 MHz)
Output Impedance	75 Ω
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 75 Ω
RF Output	F type, Female
Connectors	
Power Headers	3 Pin, 5 VDC, 12 VDC, and Gnd
Power Requirement	
Voltage	5, 12 VDC
Power Consumption per Module	6.5 Watts
Operating Temperature Range	0 °C to 50 °C
Mechanical	
Dimensions	2” (L) x 10” (D) x 3.5” (H)
Weight	1.6 lbs.

Ordering Information

PQM	Agile QAM Modulator

www.picodigital.com Copyright © 2016 Pico Digital Inc. All right reserved.
Information in this document is subject to change without notice. Pico Digital and the Pico Digital logo are trademarks of Pico Digital Inc. R2016-06-27.001