

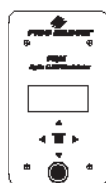
PQM

Agile QAM Modulator

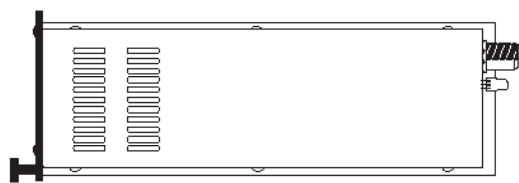


Features

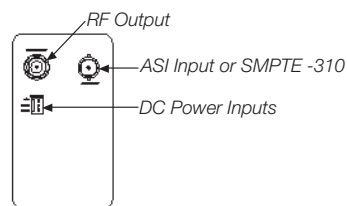
- Professional-quality agile QAM modulator and up-converter
- Modular design allows 6 or 8 modulators in 2 RU
- Accepts DVB-ASI input
- RF output channels 2 to 135 (54 MHz to 860 MHz)
- Minimum 45-dBmV output level
- Annex B and Annex A support
- Supports fixed and auto clock mode
- QAM modes supported: 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	16, 32, 64, 128, and 256
Annex A	64 and 256
Annex B	64 and 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 MHz 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	± 0.5 dB

QAM RF Amplitude Flatness	.9 dB maximum (54 MHz 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 MHz 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
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Power Requirement

Voltage	5 , 12 VDC
Power Consumption per Module	6.5 W
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