

MOD QAM™

Professional Quality Rack Mountable, Frequency Agile, Front Panel Programmable QAM Modulator (Annex A and B) and Up-Converter with 3 Year Warranty. Accepts DVB-ASI or SMPTE-310M Input. FEC Encoder Support.



Features

- Professional quality QAM Agile Modulator and Up-converter
- Modular design allows 6 or 8 modules in 2 RU chassis
- Accepts DVB-ASI input or SMPTE 310M, complies with DVB ASI standard
- RF output channels 2~135 (54~860 MHz)
- Minimum 45 dBmV output level, low group delay provides crisp, clear picture
- ANNEX B and ANNEX A FEC encoder support
- Supports Fixed and Auto Clock Mode
- QAM Modes Supported: 64 and 256
- Null Packets stuffing and PCR corrections are provided in the fixed clock mode
- 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)

Applications

- Engineering labs
- In Store Demos of QAM receivers
- Digital Signage
- Test Equipment for RF demodulators
- Hotel and Lodging video systems

Overview

QAM modulators convert compressed video to RF (radio frequency) so that many channels of video can be transmitted to televisions via a coax cable. QAM is the RF modulation format used for cable. This modulation format is designated by the ITU organization and used by American cable companies.

The Mod QAM is a frequency agile modulator for converting DVB-ASI or SMPTE 310M transport streams to QAM.

The MOD QAM can be ordered with optional 2 RU chassis units with a power supply, or with a redundant power supply.

Chassis with Power Supply



Computer Modules, Inc.

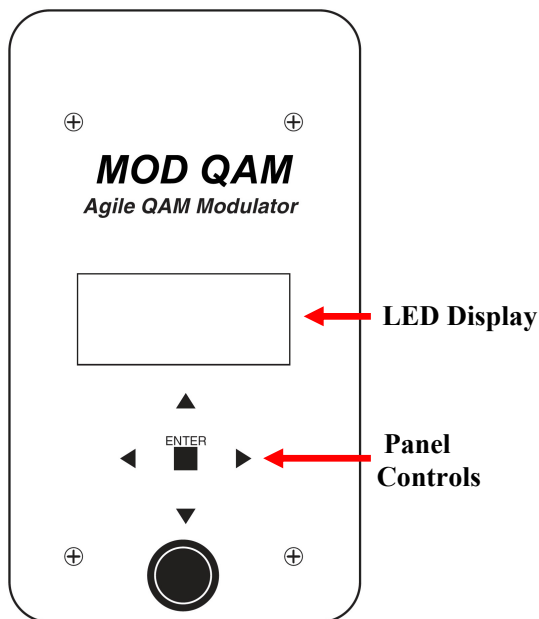
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Front View



Specifications

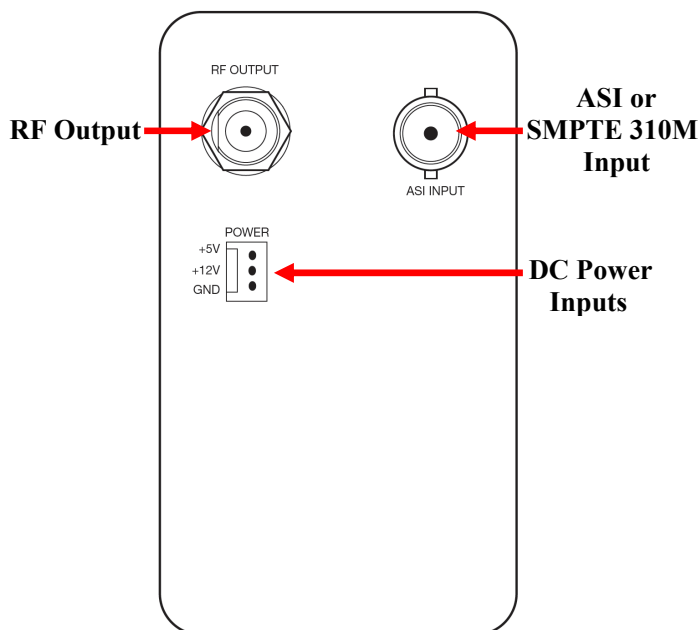
QAM Modes

Annex A:	16, 32, 64, 128, and 256
Annex B:	64 and 256

General

Symbol:	1 to 7 Mbaud
Input:	DVB-ASI
Input Connector:	F-type, BNC 75Ω
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%

Rear View



QAM RF Output

Frequency Range:	54 to 860 MHz
RF Output Channel:	2-135
Output Level:	45 dBmV 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
RF Output Connector:	F type, Female

Power Connectors

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

Voltages:	5, 12 VDC
Power Consumption per Module:	6.5 Watts, 6 modules – 39 Watts max
Operating Temperature:	0 to 50°C (32 to 122°F)

Physical

Dimensions:	HxWxL: 3.5 x 2 x 10 inches 8.9 x 5 x 25.4 cm
Weight:	1.6 lbs. (0.73 kg)

Ordering Info

MOD QAM

Optional 2 RU Chassis Units with power supplies
(For up to 6 MOD QAM modules):

MPC-12

MPC-12R with Hot-Swappable Redundant Power Supply

Optional 16 slot 2 RU Chassis with power supply:

MPC-16PS/CS (For up to 8 MOD QAM modules)



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