TAMM-QAM ⋅ Agile HD QAM Encoder Modulator Minimod Type

The TAMM-QAM is a High Definition Frequency Agile digital Encoder / Modulator.

It has an industry standard HDMI input which it then encodes in MPEG2 and modulates the signal in either QAM or 8VSB. The QAM can be set to QAM256 or QAM64 as is used in MMDS applications.

The TAMM-QAM is a Mini Mod type device that fits in all of the various Mini Mod chassis like the Toner TMMRC-12 and is powered by the associated Power Supply like the TMMPS.

The TAMM-QAM only uses one module space meaning the Chassis can hold up to 12 units. Set up and programming is easily accomplished via a GUI interface and RJ45 Ethernet jack on the front.
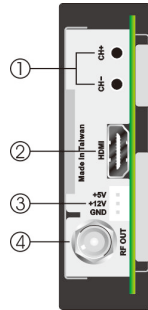
OVERVIEW

- Support 1080p full HD, and HD/SD ready for digital TV sets and CCTV security
- Channelized with standard channel number for easy and fast channel change
- Ready to consolidate or combine existing or new RF coaxial cabling
- Compatible with any terrestrial/cable tuner ready digital TV set/box
- Mini modular type compatible and fitting in with existing rack and power supply

FEATURES

- Supports MPEG2 1080p with video resolution 1080 i/p, 720p, 576 i/p, 480 i/p
- Supports major/minor channels
- Supports AC3 Dolby and AAC
- HDCP access compliant
- HDMI input for HD/SD encoding
- PMT, video/audio PID, service/network name programmable
- Friendly configuration & management control remotely thru RJ45 ethernet connection

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1. Channel Up / Down

2. HDMI : Digital A/V Input

3. DC 5V/12V IN ： 5V/12VDC power supply input

4. RF OUT ： F type connector for RF output

SPECIFICATIONS

Video Input

HDMI	Single-link compliant with HDMI 1.4a, HDCP 1.4

Audio Input

HDMI/Stereo	MPEG audio/AC3 Dolby/AAC

Video Encoder

Video Encoding	MPEG-2 HD/SC profile 2:ISO13818-2 MP@HL 1080p@30fps, 1920x1080 full HD resolution
Video Encoding Data Rates	Variable
Color Profile	4:2:0

Modulation

Modulation Type (optional)	8VSB /cable QAM
Constellation	8VSB for QAM64/QAM256 for cable
Bandwidth	6 MHz

RF Output

Output Level	35 dBmV; 20 dB adjustment
Cable Standard	NTSC (PAL-B/G/D/K/I optional)
Frequency Range	47-999 MHz
MER	39 dB typical
Spurious	55 dB typical
Symbol Rate	5057 Mbps for 62 QAM; 5360 Mbps for 256 QAM
Phase Noise	1k ≥ 70 dBc/Hz; 10k ≥ 80 dBc/Hz; 100k ≥ 90 dBc/Hz
Connector	F type female, 75 ohms

Control/Setup

Network Interface	10M Ethernet via RJ45 connection

General

Power Supply	90-250 VAC, 50/60 Hz
DC Power Input Operating	12V/200 mA, 5V/250 mA
Temperature	0 to +50°C
Size	1"W x 3.5"H x 7.5"D
Weight	1 lb