



## M-240 Full HD MODULATOR ( dual input per module x 2 modules )

4 videos per 2 channels / Mux / 1080p / 47~860MHz

### OVERVIEW

- High Technology Integration of HD Encoder plus COFDM/DTMB/QAM/ATSC Modulator
- Support 1080p Full HD ready for digital TV sets and CCTV security.
- Ready to consolidate or combine existing or new RF coaxial cabling.
- Compatible with any terrestrial tuner ready digital TV set/box.
- 2 modules mounted with a 19 inch x 1U high front plate.

### FEATURES

- Support H.264 and main video resolutions 1080 i/p, 720p, 576 i/p, 480i/p.
- HDMI input available for HD and SD encoding.
- Front plate LCD to read channel status.
- PMT, Video/Audio PID, Service/Network Name programmable.
- Friendly configuration & management control through front panel or software
- NIT/LCN setting thru front panel, or thru the web for large quantity/group
- Configuration & setting data available to copy to another unit.
- Ant-In to combine RF input and loop out.

### SPECIFICATIONS

#### Video Input

HDMI : Single-link HDMI 1.4, Compliant with HDMI 1.3, HDCP 1.4 and DVI 1.0, Integrated pre-programmed HDCP keys

Audio : MPEG Audio, AAC

#### Video Encoder

Video Encoding : H. 264 / AVC, Support Baseline profile, from level 1.0~ 4.0 up to 1080p@30fps, 1920x1080 full HD resolution

Video Encoding Data Rates : Variable

Color Profile : 4:2:0

Modulation Type (optional)	:	DVB-T COFDM /DTMB/QAM/ATSC
Constellation	:	64QAM for COFDM/DTMB; 8VSB for ATSC 64QAM/256QAM for DVB-C / Cable QAM
FEC Code Rate	:	1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval	:	1/4, 1/8, 1/16, 1/32
Bandwidth	:	6/7/8 MHz
FFT Mode	:	2K, 8K
Carrier mode	:	Single, Multiple
Frame mode (for DTMB)	:	420/945(Multiple); 595(Single)
Interleaving (for DTMB)	:	240/720

### RF Output

Output Power	:	+90 dBuV (DVB-T); +95 dBuV (DVB-C), with 30dB adjustment
Cable Standard	:	PAL-B/G/D/K/I, NTSC
Frequency Range	:	47 - 860 MHz
Frequency Stability	:	± 5KHZ
MER	:	35 dB typical
Spurious	:	55 dB typical
Symbol Rate	:	4.1 ~ 7.0MSPS
Phase Noise	:	1k ≥ 70 dBc/Hz; 10k ≥ 80 dBc/Hz; 100k ≥ 90 dBc/Hz
ANT-IN	:	To combine RF input to loop out
Connector	:	F type female, 75 Ohms

### Control/Setup

Network interface	:	10M Ethernet via RJ45 connection
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### General

Power Supply	:	100-240V AC, 50/60Hz, DC 12V / 2A
Packing	:	5 inner boxes (10 modules)/17Kgs/ 2.54 cuft/ Carton

### Rear Panel

