



M-102 HD/SD MODULATOR (2 single modules in 1U rack)

Optional COFDM / QAM / DTMB / ATSC 1080p

OVERVIEW

- High Technology Integration of HD Encoder plus COFDM/QAM/DTMB/ATSC Modulator
- Support 1080p Full HD, and HD/SD ready for digital TV sets and CCTV security.
- Ready to consolidate or combine existing or new RF coaxial cabling.
- Compatible with any terrestrial/cable 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 and CVBS 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.

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

Composite Video (CVBS) : RCA type, 75 Ohms

Audio Input

R · L Analog Audio : RCA type, 12K Ohms, Max. 1Vrms(2.828Vp-p)

HDMI / Stereo : MPEG Audio

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

Modulation Type (optional)	:	DVB-T COFDM /DTMB/ATSC or DVB-C QAM Annex A/B
Constellation	:	64QAM for DVB-T 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	:	+95 dBuV (DVB-C); +90 dBuV (DVB-T) 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 ~ 7.0Mps
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
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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

