



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

Optional COFDM / QAM / ATSC / DTMB 1080p

OVERVIEW

- High Technology Integration of HD Encoder plus COFDM/QAM/ATSC/DTMB Modulator
- 1080p Full HD supported, and HD/SD ready for digital TV sets and CCTV security.
- 2 units mounted on one 19" rack to save space.
- Compatible with any terrestrial/cable tuner ready digital TV set/box.

FEATURES

- Support H.264 and main video resolutions 1080p, 720p, 480p.
- 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

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 are optional)

Composite Video : (CVBS) RCA type, 75 Ohms

Audio Input

R · L Analog Audio : Physical Connections / RCA 12K Ohms
Input Level : 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 64/256QAM for DVB-C
FEC Code Rate	:	5/6, 7/8
Guard Interval	:	1/16, 1/32
Bandwidth	:	6/7/8 MHz
FFT Mode	:	2K, 8K
RF Output		
Output Power	:	+95 dBuV(DVB-C),+90 dBuV(DVB-T) with 30dB adjustment
Cable Standard	:	NTSC, PAL-B/G/D/K/I
Frequency Range	:	47 - 860 MHz
Frequency Stability	:	± 10KHZ
MER	:	34 dB typical
SNR	:	43 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
Connector	:	F type female, 75 Ohms
Control/Setup		
Network interface	:	10M Ethernet via RJ45 connection
General		
Power Supply	:	100-240V AC, 50/60Hz, DC 12V / 2A
Dimensions	:	5.1" x 19" x 2"
Packing	:	5 inner boxes (10 modules)/17Kgs/ 2.54 cuft/ Carton

Rear Panel



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