



## **M-100 HD MODULATOR**

**Optional COFDM / QAM / ATSC / DMBT 1080p**

### **OVERVIEW**

- High Technology Integration of HD Encoder plus COFDM/QAM/ATSC/DMBT Modulator
- 1080p ready for digital CCTV/HD television.
- Ready to consolidate or combine existing or new RF coaxial cabling.
- Standard digital COFDM/QAM /ATSC/DTMB compatible with any terrestrial/cable tuner ready HDTV set/ HD box.

### **FEATURES**

- Support main video resolutions 1080p, 720p, 480p, H.264.
- HDMI and CVBS input available.
- Front plate LCD to read channel status.
- PMT, Video/Audio PID, Service/Network Name programmable.
- Friendly configuration & management control through front panel or software
- Low electricity power consumption for eco-friendly.

## **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 (optional)
- Composite Video : (CVBS) RCA type, 75 Ohms

### **Audio Input**

- R · L Analog Audio : Physical Connections / RCA 20K Ohms / Input Level : 1Vrms(2.828Vp-p) Typical
- HDMI / Stereo : MPEG Audio, PCM/non-PCM data, AAC-LC

### **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, 5 - 22 Mbps
- Color Profile : 4:2:0

### **Modulation**

- Modulation Type : COFDM DVB-T /DMBT or DVB-C QAM Annex A/B (optional)
- Constellation : QPSK, 16QAM, 64QAM for DVB-T/DMBT  
64QAM for DVB-C /ATSC
- 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

### **RF Output**

- Gain Output : +100 dBuV with 15dB adjustment
- Cable Standard : NTSC, PAL-B/G/D/K /I Available
- Frequency Range : 45 - 862 MHz
- Frequency Stability : ± 10KHZ
- MER : 38 dB typical
- Carrier Suppression : 50 dB typical
- Spurious : 55 dB min.

Phase Noise : 1k  $\geq$  70 dBc/HZ ; 10k  $\geq$  80 dBc/HZ ; 100k  $\geq$  90 dBc/HZ  
Connector : F type female, 75 Ohms

### Control/Setup

Network interface : 10/100M Ethernet via RJ45 connection

### General

Power Supply : 100-240V AC, 50/60Hz, DC 12V / 2A  
Packing : 1 Set / Inner Box ; 8 Sets / Carton / 14 Kgs / 2.24 cuft

### Rear Panel



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