



## MODHD520 HD/SD MODULATOR

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.

### 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.

### SATCOMNET SYSTEMS SDN BHD

31, Jalan BK 5A/3A, Bandar Kinrara, 47180 Selangor, Malaysia

Tel : 603-80750659

Fax : 603-80822909

Email : [Sales@satcomnet.com.my](mailto:Sales@satcomnet.com.my)

Website :

[www.satcomnet.com.my](http://www.satcomnet.com.my)



## 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

### 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 with 20dB adjustment

Cable Standard : PAL-B/G/D/K/I, NTSC

Frequency Range : 470 - 860 MHz

Frequency Stability :  $\pm$  5KHZ

MER : 35 dB typical

Spurious : 55 dB typical

Symbol Rate : 4.1 ~ 7.0Mpsps

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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 : 10M Ethernet via RJ45 connection

### General

AC Power Input : 90-260VAC, 50/60Hz.  
DC Power Output : (1U) 12V / 2.6A , 5V / 3.5A  
DC Power Input (each module) : 12V / 230mA, 5V / 350mA  
Operating Temperature : 0°C to + 50 °C  
Size (each module) : 1"W \* 3.5"H \* 7.5"D (2.5W \* 8.9 H \* 19.1D cm)  
Weight (each module) : 0.3 Kg

Packing per set :

- \*One complete set for 4 modules installed with 1U power supply & rack:
- One inner box for one complete set;
- Five(5) complete sets (or 5 inner boxes), or 20 modules per carton;
- One carton: 16 Kgs/ 3.2 Cuft

### Rear Panel



### \*Front Plate & Rear Panel of the Module



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