

EMH610C

HD/SD ISDB-T/DVB-T Encoder Modulator



EMH610C series encoder & modulator for home use is Dibsyes's consumer electronics which allows you to easily distribute content up to 1080p resolution to an unlimited number of displays, eliminating the need for cumbersome, expensive set-top-boxes or media players at each display.

It is an all-in-one device integrating MPEG-4 AVC/H.264 encoding and modulating to convert audio/video signals into DVB-T/ISDB-T RF out. And allows audio/video signal input in TV distributions with applications in home entertainment, surveillance control, hotel Digital Signage, shops etc.

The signals source could be from satellite receivers, closed-circuit television cameras, Blue-ray players, antenna and a or Hard Disk etc. Its output signal is to be received by TV sets or STBs etc.

Key Features

- HD-MI/CVBS input
- MPEG4 AVC/H264 HD/SD video encoding
- MPEG1 Layer II audio encoding
- Transmission mode (FFT): 2K, 8K (applied in DVB-T modulation)
- DVB-T/ISDB-T RF in one device, DVB-T/ISDB-T modulation dynamic switching
- Easy operation with LCD + control buttons

Application



TECHNICAL SPECIFICATIONS

Encoding Section

HD-MI

Video Encoding MPEG-4 AVC/ H.264
 H.264 H.264 MP@L 3.0/3.1/4.0
 Interface HD-MI*1
 Resolution

Input	output
480@59.94/60p	480@60p
480@59.94/60i	480@30p
576@50i	576@25p
720@50/59.94/60p	720@50/59.94/60p
1080@50i	1080@25p
1080@59.94/60i	1080@30p
1080@59.94/60p	1080@30p

Bit rate 1.000~18.00 Mbps
 Aspect Ratio 16:9, 4:3
 Audio Encoding MPEG1 Layer II
 Sample rate 48 KHz
 Bit rate 64, 96, 128, 192, 256, 320, 384kbps

CVBS

Video Encoding MPEG-4 AVC/ H.264
 Interface CVBS*1 (RCA)
 Resolution

Input	output
480@60p	480@60p
480@60i	480@30p
576@50p	576@50p
576@50i	576@25p

Aspect Ratio 4:3
 Bit rate 1.000~18.00 Mbps
 Audio Encoding MPEG1 Layer II
 Interface Analog Stereo/Mono (Unbalanced RCA)
 Sample rate 48 KHz
 Bit rate 64, 96, 128, 192, 256, 320, 384kbps

Modulator Section

DVB-T

Standard DVB-T COFDM
 Bandwidth 6M, 7M, 8M
 Constellation **QPSK, 16QAM, 64QAM**
 Code rate 1/2, 2/3, 3/4, 5/6, 7/8
 Guard Interval 1/32, 1/16, 1/8, 1/4
 Transmission mode 2K, 8K
 MER ≥31dB
 RF frequency 150~950 MHz, 0.1KHz step
 RF output level -47~ 0 dBm (60~107 dbμV), 1db step

ISDB-T

Standard ARIB STD-B31
 Bandwidth 6M
 Constellation QPSK, 16QAM, 64QAM
 Guard Interval 1/32, 1/16, 1/8, 1/4
 Transmission mode 2K, 4K, 8K
 MER ≥30dB
 RF frequency 150~950MHz, 0.1MHz step
 RF output level -47~ 0 dBm (60~107 dbμV), 1db step

System

Management Local control: LCD+ control buttons
 Language English
 RF Combine in ATT 10dB
 Upgrade USB

General

Power supply DC 12V
 Dimensions 183*110*45mm
 Weight <1kg
 Operation temperature 0~45°C

Application

...for bars



...for shopping centres



...for hoptials



...for hotels



...for casinos



...for gyms

