

H.264 HEVC HD Encoder Modulator



EMH670 HD encoder & modulator is Dibsys's consumer electronics which allows you to easily distribute content up to 1080p resolution. It allows HD-MI signal input in TV distributions with applications in home entertainment, surveillance control, hotel Digital Signage, etc.

It is an all-in-one device integrating MPEG-4/H.265 encoding and modulating to convert audio/video signals into DVB-C/DVB-T/ATSC/ISDBT RF out. The signals source could be from STB, satellite receiver, closed-circuit television cameras and etc. Its output signal is to be received by TVs or STBs etc.

Features

- HD-MI input for encoding
- HEVC, H.265/H264 HD video encoding
- MPEG1 Layer II, MPEG2-AAC, MPEG4-AAC, AC3 Pass-through audio encoding
- Audio delay function
- IP output over UDP, RTP/RTSP
- CC (Closed Caption) /Teletext
- Support OSD (logo/QR Code/Caption) insertion (developing)
- DVB-C/T/ATSC/ISDBT RF in one device, modulation dynamic switching
- Easy operation with LCD + control buttons

APPLICATIONS



TECHNICAL SPECIFICATIONS

Encoding Section

HDMI

Video	H.265/ H.264
Interface	HD-MI*1, HD-MI loop out*1
Resolution	1920*1080_60P,1920*1080_50P; 1920*1080_59.94P,1280*720_60P, 1280*720_59.94, 1280*720_50P
Bit rate	1.000~15.000 Mbps
Chroma	4:2:0
Rate Control	CBR/VBR
GOP Structure	IP

Audio

Encoding	MPEG-1 Layer 2, LC-AAC, HE-AAC, HE-AAC V2; AC3 Pass-through
Sample rate	32KHz,44.1KHz,48KHz
Bit rate	48Kbps~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, 4K,8K
MER	≥35dB
RF frequency	100~900MHz, 1KHz step
RF output level	-63~-5dBm, 1db step

DVB-C

Standard	J.83A (DVB-C), J.83B
MER	≥40dB
RF frequency	100~1000MHz, 1KHz step
RF output level	-20~-5dBm, 1db step
Symbol rate	5.000~7.000Mpsps adjustable

J.83A

Constellation 16/32/64/128/256QAM
Bandwidth 8M
Constellation 64/256QAM
Bandwidth 6M

J.83B

ATSC developing

Standard	ATSC A/53
MER	≥35dB
RF frequency	100~900MHz, 1KHz step
RF output level	-63~-5dBm, 1dB step
Constellation	8VSB

ISDB-T developing

Standard	ARIB STD-B31
Constellation	QPSK, 16QAM, 64QAM
Guard Interval	1/32, 1/16, 1/8,1/4
Transmission mode	2K, 4K, 8K
Code rate	1/2, 2/3, 3/4, 5/6, 7/8
RF frequency	100~900MHz, 1KHz step
RF output level	-63~-5dBm, 1dB step

IP OUT

IP out over UDP (Unicast/multicast), RTP/RTSP,
(RJ45, 100M/1000M self-adaptive)

System

Management	Web-GUI, LED+Keyboard
Language	English
Upgrade	Web-server

General

Power supply	DC 12V
Dimensions	160*120*52mm
Weight	<1kg
Operation temperature	0~45°C

...for bars



...for shopping centres



...for hoptials



...for hotels



...for casinos



...for gyms

