

EMI6350

DIBSYS

DVB-S/S2 Encoder and Modulator

DVB-S2 MPEG2 H.264 MPEG4/AVC BISS



EMI6350 encoder modulator is Dibsyst's all-in-one devices which integrate encoding, multiplexing and modulation to convert Video/Audio signals into DVB-S/S2 RF output. It adopts inner drawer-type structural design which greatly facilitates the change of encoding modules (HDMI/CVBS/SDI/YPbPr/...) as needed, with a fully integrated MPEG-2 and MPEG-4 AVC High Definition and Standard Definition in a 1-RU unit. To meet customers' various requirements, EMI6350 is also equipped with 1 ASI input, and output with ASI port and 1 RF port.

The signals source could be from satellite receivers, closed-circuit television cameras, Blue-ray players, and antenna etc. With its various inputs available and special modulation index, EMI6350 series encoder modulators are especially adequate for inserting DVB-S/S2 signal in the cable system to add programs in the DVB-S/S2 TVs or STBs.

EMI6350 series products are widely used in public places such as metro, market hall, theatre, hotels, resorts, and etc for advertising, monitoring, training and educating in company, schools, campuses, hospital, etc. It's a good choice to offer additional info channels.

Features

- HDMI/CVBS/SDI/YPbPr etc. Inputs, 1*ASI in;
- MPEG2 HD/SD & MPEG4 AVC H.264 HD/SD video encoding
- Output Frequency: 950-2150MHz
- Dialog Normalization (Optional)
- Low Delay achieved (if the encoding model you purchased is with this function)
- BISS function supported
- Symbol Rate: 0.05-20Mps
- PCR accurate adjusting
- DVB-S/S2 RF out and ASI out
- Modular design, pluggable encoding modules
- RF 24V power output
- Support 10MHz reference clock output
- Designed for 24*7*365 uninterrupted working
- Easy-to-Use System Management
- LCD display, Remote control and firmware
- Web-based NMS management; Updates via web

TECHNICAL SPECIFICATIONS

HDMI Encoding Input



Video	
Input	HDMI*1, (1 for backup)
Encoding	MPEG-2; MPEG4 AVC/H.264
Bitrate	1-19.5Mbps
Resolution	1920*1080_60P, 1920*1080_50P, (-for MPEG4 AVC/H.264 only) 1920*1080_60i, 1920*1080_50i, 1280*720_60p, 1280*720_50P 720*480_60i, 720*576_50i
GOP	B≤3, P≤6
Aspect Ratio	16:9,4:3, auto
Audio	
Encoding	MPEG1 Layer II, MPEG2-AAC, MPEG4-AAC, AC3(optional as per order)
Sample rate	48KHz
Dialog Normalization	(-31~1 dB) Applicable on AC3 encoding
Bitrate	64/96/128/ 192/256/320kbps

HDMI/YPbPr/CVBS



3-in-1 Encoding Input

Video (HDMI)	
Encoding	MPEG2; MPEG4 AVC/H.264
Input	HDMI*1
Bitrate	1-19.5Mbps
Resolution	1920*1080_60P, 1920*1080_50P, -for MPEG4 AVC/H.264 only) 1920*1080_60i, 1920*1080_50i, 1280*720_60p, 1280*720_50P
Audio (HDMI)	
Encoding	MPEG1 Layer II; MPEG2-AAC; MPEG4-AAC
Interface	1*HDMI
Sample rate	48KHz
Bit rate	64/96/128/192/256/320kbps

Video (YpbPr/ CVBS)

Interface	YpbPr*1 / CVBS *1
Encoding	MPEG2; MPEG4 AVC/H.264
Bitrate	1-19.5Mbps
Resolution	
CVBS	720x576_50i (PAL); 720x480_60i (NTSC)
YpbPr	1920*1080_60i, 1920*1080_50i; 1280*720_60p, 1280*720_50P

Audio (L/R)

Encoding	MPEG1 Layer II; MPEG2-AAC; MPEG4-AAC
Interface	1*Stereo/2*mono
Sample rate	48KHz
Bit rate	64/96/128/ 192/256/320kbps

2*(S-Video/YPbPr/CVBS)

Encoding Input



Video	
Encoding	MPEG-2 MP@ML(4:2:0)--Option 1 MPEG-2 & MPEG-4 AVC/H.264 (4:2:0)--Option 2
Input	2*S-Video/YPbPr/CVBS (RCA Type)
Bitrate	1-19.5Mbps--Option 1 1~10.00 Mbps--Option 2
Resolution	720*576 (PAL), 720*480 (NTSC)
Audio	
Encoding	MPEG1 Layer II --Option 1 MPEG1 Layer II; LC-AAC; HE-AAC and Dolby Digital AC3 2.0(Optional) --Option 2

Sample rate	48KHz
Bitrate	64/96/128/ 192/256/320kbps
Input	2 Stereo/Mono

Single SDI Encoding Input



Video	
Encoding	MPEG2; MPEG4 AVC/H.264
Input	HD-SDI*1
Bitrate	1-19.5Mbps
Resolution	1920*1080_60P, 1920*1080_50P, (-for MPEG4 AVC/H.264 only) 1920*1080_60i, 1920*1080_50i, 1280*720_60p, 1280*720_50P 720*480_60i, 720*576_50i
Aspect Ratio	16:9, 4:3
Audio	
Encoding	MPEG1 Layer II; MPEG2-AAC, MPEG4-AAC and Dolby Digital AC3 2.0 (Optional)
Sample rate	48KHz
Bitrate	64/96/128/ 192/256/320kbps

Modulator Section DVB-S/S2

Constellation	
DVB-S	QPSK
DVB-S2	QPSK, 8PSK
FEC	1/2,2/3,3/4,5/6,7/8 (DVB-S QPSK) 1/2,3/5,2/3,3/4,4/5,5/6,8/9,9/10 (DVB-S2 QPSK) 3/5,2/3,3/4,5/6,8/9,9/10 (DVB-S2 8PSK)
RF output	950.00-2150.00 MHz, 10Khz step
IF output	50-200MHz
BISS scrambling	Mode1, ModeE
Symbol rate	0.5-20.0Mpsps
Roll Off	0.35 (DVB-S); 0.35, 0.25, 0.2 (DVB-S2)
Output level	-10dBm~-41.5dBm

Input interface

1/2*CVBS /1*SDI /1*HDMI/1*(HDMI+YPbPr+CVBS 3-in-1) optional
1×ASI input, BNC interface

System

Low Latency Mode	Normal, Mode 1, Mode 2
Local interface	LCD + control buttons
Remote management	Web NMS
Stream Out	ASI out (BNC type); DVB-S/S2 RF output
NMS interface	RJ45, 100M
Language	English

Physical Specification

Power supply	AC 100-240V 50/60Hz 2A
Dimensions	410×460×44mm (W*L*H)
Weight	4.5 kg
Operation temperature	0~45°C

Principle Chart

