



HPS358 1 Channel HD/SD Encoder & Modulator



Outline

HPS358 series encoder & modulator is CATCAST's consumer electronics which allow audio/video signal input in TV distributions with applications in home entertainment, surveillance control, hotel Digital Signage, shops etc.

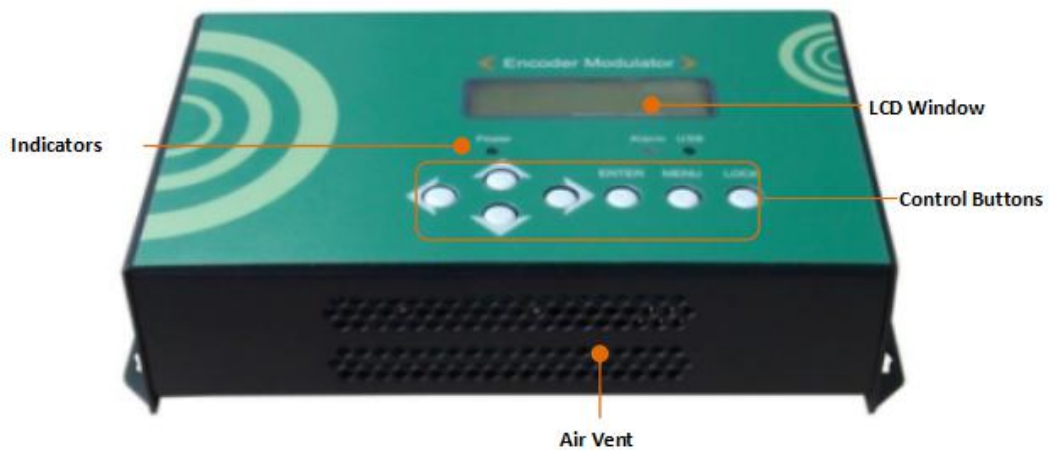
It is an all-in-one device integrating MPEG-4 AVC/H.264 encoding and modulating to convert audio/video signals into DVB-C/DVB-T/ATSC /ISDBT RF out.

The USB port is designed to record encoded video (TS) and save it in ts files in the USB Keys or Hard Disks, and then the ts files can be playback through the USB port. The ts files can be also generated on a computer with CATCAST's TS Creator.exe program.

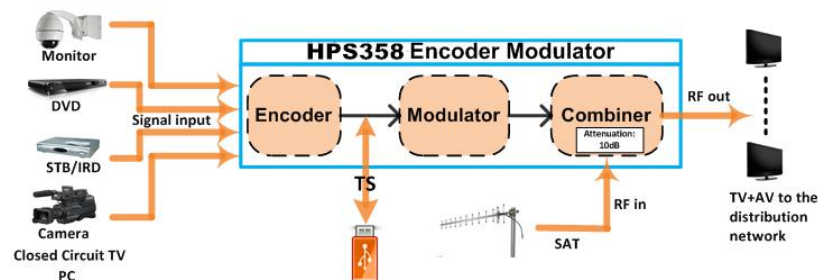
The signals source could be from satellite receivers, closed-circuit television cameras, Blue-ray players, antenna and a USB key or Hard Disk etc. Its output signal is to be received by TV sets or STBs etc.



YPbPr + S-Video + AV to VGA Adapter
For video & audio input



System Connection Chart



Key Features

- HDMI/YPbPr/S-Video/AV input for encoding
- MPEG4 AVC/H264 HD/SD video encoding,
- MPEG1 Layer II, MPEG2-AAC, MPEG4-AAC audio encoding optional
- Record encoded TS and playback TS files (*.ts) through USB port
- Transmission mode (FFT): 2K, 8K (applied in DVB-T modulation)
- Enhanced USB function: more stable and compatible with Hard Disks and USB Keys of various brand
- USB device error self-detection and removal, ensure USB device running uninterrupted
- DVB-C/T/ASTC/ISDBT RF in one device, DVB-C/T/ASTC/ISDBT modulation dynamic switching
- Easy operation with LCD + control buttons, and Web-server management

Technical Specifications

Encoding Section		
HDMI		
Video	Encoding	MPEG-4 AVC/H.264
	H.264 Profile	High profile, main profile
	H.264 Level	Level 3.0/3.1/ 3.2/ 4.0/4.1/4.2
	Interface	HDMI*1
	Resolution	1920*1080_60P,1920*1080_50P;
	Bit rate	1.000~19.500 Mbps
Audio	Encoding	MPEG1 Layer II, MPEG2-AAC, MPEG4-AAC
	Sample rate	48KHz
	Bit rate	MPEG1 Layer II: 64, 96,128, 192, 256, 320, 384kbps
YPbPr/CVBS/S-Video (with an adapter to VGA)		
Video	Encoding	MPEG-4 AVC/H.264
	Interface	CVBS *1, YPbPr*1, S-Video*1
	Resolution	CVBS & S-Video:
	Bit rate	1.000~19.500 Mbps
Audio	Encoding	MPEG1 Layer II, MPEG2-AAC, MPEG4-AAC
	Interface	1*Stereo /2*mono
	Sample rate	48KHz
	Bit rate	MPEG1 Layer II:
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	≥40dB	

RF frequency	30~960MHz, 1KHz step		
RF output level	-16~-36dBm (71~91dbμV), 0.1db step		
DVB-C			
Standard	J.83A (DVB-C), J.83B, J.83C		
MER	≥40dB		
RF frequency	30-960MKHz. 1KHz step		
RF output level	-16~-36 dBm (71~91dbμV), 0.1db step		
Symbol rate	5000-9000KHz		
	J.83A	J.83B	J.83C
Constellation	16 /32 /64 /128/256	64/ 256 QAM	64/ 256 QAM
Bandwidth	8M	6M	6M
ATSC			
Standard	ATSC A/53		
MER	≥40dB		
RF frequency	30~960MHz, 1KHz step		
RF output level	-16~-36 dBm (71~91 dbμV), 0.1db step		
Constellation	8VSB		
ISDB-T			
Standard	ARIB STD-B31		
Bandwidth	6M		
Constellation	DQPSK,QPSK, 16QAM, 64QAM		
Guard Interval	1/32, 1/16, 1/8, 1/4		
Transmission Mode	2K, 4K, 8K		
MER	≥42dB		
RF frequency	30~960MHz, 1KHz step		
RF output level	-16~-36 dBm (71~91 dbμV), 0.1db step		
System			
Management	Local control: LCD + control buttons		
Language	English		
LCN Insertion	yes		
RF Combine in ATT	10dB		
Upgrade	USB/Web-server		
General			
Power supply	DC 12V		
Dimensions	183*110*45mm		
Weight	< 1kg		
Operation temperature	0~45℃		