

HPS724IV 24ch A/V to DVB-C/DVB-T/ATSC/ISDB-T

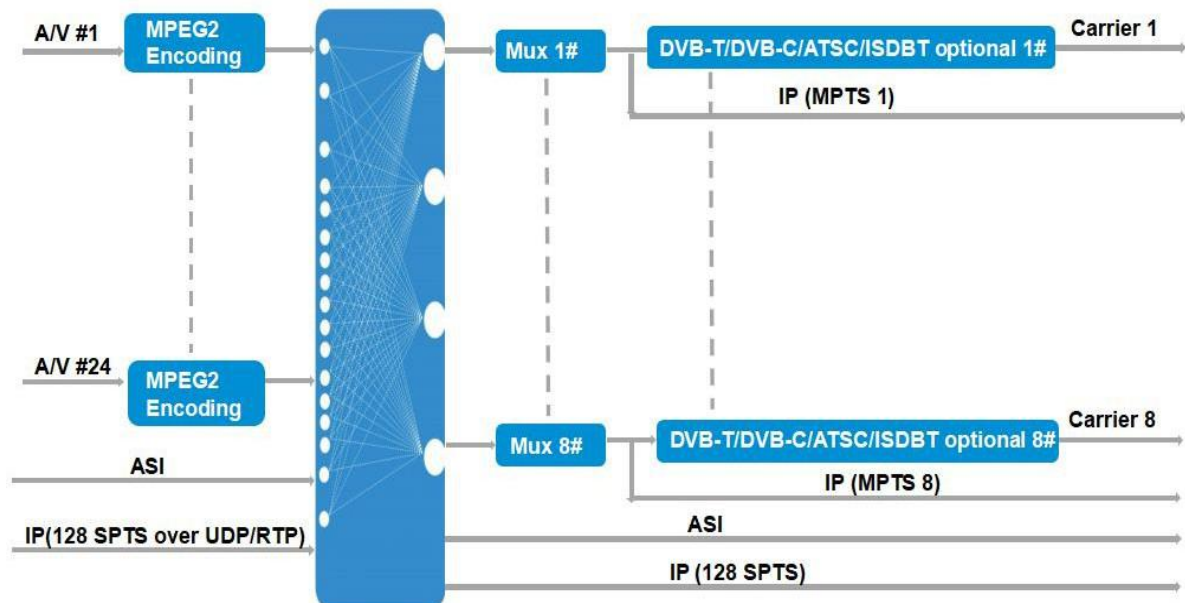
MPEG2 SD Encoder Modulator



Outline

HPS724IV 4/8/12/16/20/24 Channels SD MPEG2 Encoder Modulator is a professional SD audio & video encoding, multiplexing and modulating device with powerful functionality. It support 4/8/12/16/20/24 CVBS input, MPEG2 encoding, 4/8 carriers of DVB-C/DVB-T/ATSC/ISDB-T(optional) RF output. This device can simultaneously encode 4/8/12/16/20/24 channel SD programs; moreover, it has IP (128 SPTS over UDP/RTP) input, 2 ASI input and can multiplex the input ASI/IP with the 24 encoded SPTS to generate a MPTS output. Also, the PSI/SI information can be inserted into SPTS output. In conclusion, its high integrated and cost effective design makes the device widely used in varieties of digital distribution systems such as CATV digital head-end, satellite and terrestrial digital TV broadcasting, etc.

Principle Chart



DVB-T/DVB-C/ATSC/ISDBT Optional

Specifications

Input	4/8/12/16/20/24 A/V inputs,RCA interface	
	24 pairs of unbalanced stereo audio input, BNC interface	
	2×ASI input, BNC interface	
	IP (128 SPTS over UDP/RTP) input, 1000M port	
Video	Resolution	720×480_60i, 720×576_50i(D1)
		544×480_60i, 544×576_50i(3/4D1)
		352×480_60i, 352×576_50i(HD1)
		480×480_60i, 480×576_50i(2/3D1)
	Encoding	MPEG-2 MP@ML
	Bit-rate	0.8Mbps~19Mbps (each channel)
	Rate Control	CBR/VBR
GOP Structure	IBBP	
Advanced Pretreatment	De-interlacing, noise reduction, sharpening	
Audio	Encoding	MPEG-1 Layer 2
	Sampling rate	48KHz,44.1KHz,32KHz
	Resolution	24-bit

	Bit-rate	64Kb/s~384Kb/s each channel		
Multiplexing		Multiplex 1ASI input and 8 channels SD encoding programs		
Stream output		2×ASI outputs, BNC interface(support PID filter and pass, support real time monitoring of the output stream.		
		IP out 24 SPTS,support IP out null packets filter		
Modulator	DVB-T	RF number	4/8 carrier RF output	
		Standard	EN300744	
		FFT mode	2K	
		bandwidth	6M, 7M, 8M	
		Constellation	QPSK, 16QAM, 64QAM	
		Guard Interval	1/4, 1/8, 1/16, 1/32	
		FEC	1/2, 2/3, 3/4, 5/6, 7/8	
		MER	≥42 dB	
		RF frequency	50~960MHz, 1KHz step	
		RF output level	0~ -24 dBm, 0.1db step	
	DVB-C	RF number	4/8 carrier RF output	
		Standard	EN300 429/ITU-T J.83A/B/C	
		MER	≥40db	
		RF frequency	50~960MHz, 1KHz step	
		RF output level	-34~-10dBm , 0.1dBm step	
		Symbol Rate	5.0Msps~7.0Msps,1ksps stepd	
			J.83A	J.83B/J.83C
		Constellation	16/32/64/128/256QAM	64/256 QAM
		Bandwidth	8M	6M
		ATSC	RF number	4/8 carriers ATSC
	Standard		ATSC A/53 standard	
	Bandwidth		6M	
	Constellation		8VSB	
	FEC		RS(208 188)+Trellis	
	MER		≥40dB	

		RF frequency	50~960MHz, 1KHz step	
		RF output level	-34~-10dBm , 0.1dBm step	
	ISDBT	RF number	4/8 carrier RF output	
		Standard	ARIB STD-B31	
		Bandwidth	6M	
		Constellation	QPSK, 16QAM, 64QAM	
		Guard Interval	1/32, 1/16, 1/8, 1/4	
		Transmission Mode	2K	
		Code rate	1/2, 2/3, 3/4, 5/6, 7/8	
		MER	≥40dB	
		RF frequency	50~960MHz, 1KHz step	
		RF output level	-34~-10dBm , 0.1dBm step	
	System function		LCD/keyboard operating, network management(SNMP), English control interface Ethernet software upgrade	
	General	Dimensions (W×D×H)	482mm×420mm×45mm	
Approx weight		8 kg		
Temperature range		0~45°C (Operating), -20~80°C (Storage)		
Power Requirements		AC100~240V, 50/60Hz		