CatCast

HPR8401FM Tuner to Modulator

Product Overview

HPR8401FM tuner to modulator is professional high integration device which includes tuner demodulation, multiplexing and modulation function.It supports 4 or 8 (DVB-S/S2,DVB-C,DVB-T/T2,ATSC,ISDB-T optional) FTA tuner input, 1000M IP input/output, 4/8 carriers of ATSC/DVB-T/DVB-C/ISDB-T/DTMB modulated RF output, 4 MPTS output and 128 SPTS output（optional). In conclusion, its high integrated and cost effective design makes the device widely used in varieties of digital distribution systems such as cable TV digital head-end, digital TV broadcasting, IPTV live streaming etc.

Key Features

- **4 or 8 FTA tuner input,**

(DVB-S/S2,DVB-C,DVB-T/T2,ATSC,ISDBT) optional

- **1000M IP input/output over UDP and RTP protocol(MPTS and SPTS) (optional)**
- **4/8 carrier RF output (ATSC, DVB-T, DVB-C, ISDB-T, DTMB) optional**
- **The input program stream is multiplexed and packaged into TS stream and IP output (optional)**
- **2 ASI Independent output (optional) as copy of 4 MPTS**
- **Support "Null PKT Filter" function**
- **Support PID Remapping/ PCR accurate adjusting, PID pass**
- **LCD、key function**
- **Control via web management, and easy updates via web**

Technical Specification

Input	4/8 FTA tuner inputs,(DVB-S/S2,DVB-T/T2, ISDB-T, ATSC, DVB-C) optional		
	2 ASI inputs is optional		
	1000M IP input		
Output	4/8 carriers RF output (ATSC, DVB-C,DVB-T/T2, ISDB-T) modulation optional		
	2 ASI output is optional		
	IP output（256 SPTS and 4 MPTS）IP output over UDP and RTP protocol		
Multiplexing	Maximum PID Remapping	180 output pids per channel	
	Function	PID remapping (automatically or manually)	
		Accurate PCR adjusting	
Modulation	DVB-T	RF number	4/8 RF DVB-T 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	
		RFoutput level	-34~ -10 dBm, 0.1db step	
	DVB-C	RF number	4/8 RF DVB-C output	
		Standard	EN300 429/ITU-T J.83A/B/C	
		MER	≥42db	
		RF frequency	50~960MHz, 1KHz step	
		RFoutput 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 RF ATSC output	
		Standard	ATSC A/53	
		Bandwidth	6M	
		Constellation	8VSB	
		FEC	RS(208 188)+Trellis	
		MER	≥42dB	
		RF frequency	50~960MHz, 1KHz step	
		RFoutput level	-34~-10dBm , 0.1dBm step	
	ISDB-T	RF number	4/8 RF ISDB-T 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	≥42dB	
		RF frequency	50~960MHz, 1KHz step	
		RFoutput level	-34~-10dBm , 0.1dBm step	
	DTMB	RF number	4/8 carrier RF output	
		Standard	DTMB GB20600-2006	
		Bandwidth	8M bandwidth	
		Constellation	4QAM,16QAM, 32QAM, 64QAM	
		Qty. of modulation carriers	single carrier or (multi-carriers)	
		Guard intervals	PN420, PN595, PN945	
		Internal error correction code	LDPC	

		Encoding efficiency	0.4, 0.6, 0.8
		Interlace depth	240, 720
		MER	≥42dB
		ACLR	55dB
		Frequency range	110 ~ 960MHz, in 1KHz steps
		RF out level	-26dBm ~ -10dBm, in 0.5dB steps
System function	Network management(WEB)		
	Chinese and English language		
	Ethernet software upgrade		
Miscellaneous	Dimension (W×L×H)	482mm*360mm*44mm	
	weight	5kg	
	Environment	0~45℃(work)；-20~80℃(storage)	
	Power requirements	AC100~240V，50/60Hz	