

Encoder Modulator

EM21XX-IS



Product Introduction

EM21XX-X is a professional high integration device which includes encoding, multiplexing, and modulation in one body. It supports up to 24 HDMI input, one DVB-C/T/ISDB-T (ATSC optional) tuner input and up to 512 IP input for re-mux. After multiplexing, it output 16 non-adjacent ISDB-T carries. It also supports 16 MPTS as mirror of 16 carriers through Data2 (GE) port. This full functionality makes it ideal for small CATV head end system, and it's a smart choice for hotel TV system, entertainment system in sports bar, hospital, apartment

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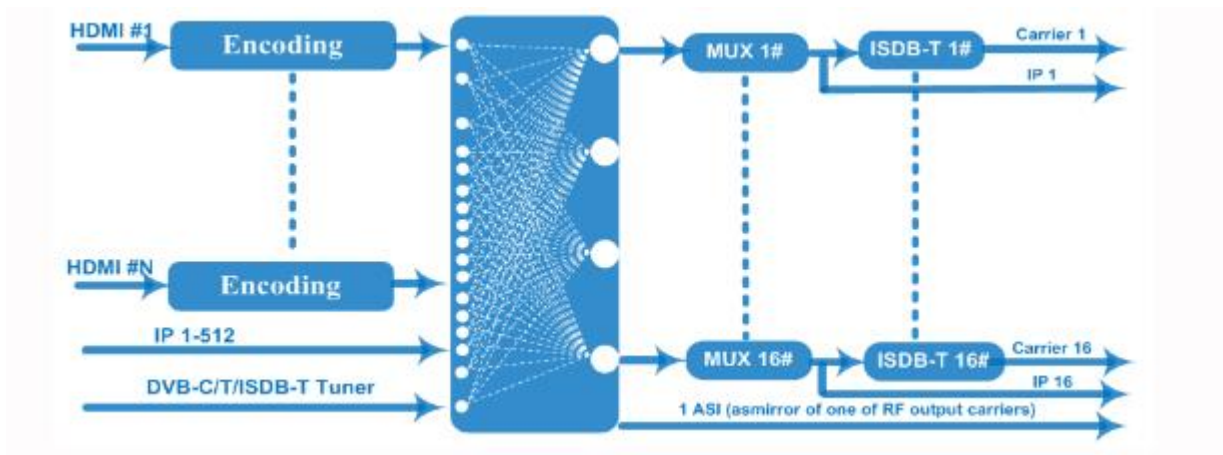
Feature

- ***8/12/16/20/24× HDMI input with HEVC/H.265, MPEG4 AVC/H.264 video encoding format**
- ***Support B frame GOP, high video compression ratio and stable bitrate**
- *** MPEG-1 Layer 2, LC-AAC, HE-AAC, HE-AAC V2 audio encoding, AC3 Pass-through**
- ***Support 16 groups multiplexing/ISDB-T modulating channels out**
- ***Support 1 ASI out as mirror of one of RF output carriers—Optional**
- ***Support 16 MPTS IP output over UDP, RTP/RTSP**
- ***Support LOGO, Caption and QR code insertion**
- ***Support PID remapping/ accurate PCR adjusting/PSI/SI editing and inserting**
- ***Control via web management, and easy updates via web**

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Principle chart



Specification

Input	8/12/16/20/24 HDMI inputs		
	1 DVB-C/T/ISDB-T (ATSC optional) Tuner for re-mux, F type interface		
512 IP input over UDP and RTP, DATA1, RJ45			
Video	Resolution	Input	1920×1080_60P, 1920×1080_50P, 1920×1080_59.94P, 1920×1080_60i, 1920×1080_50i, 1920×1080_59.94i, 1280×720_60P, 1280×720_59.94P, 1280×720_50P
		Output	1920×1080_60P, 1920×1080_50P, 1920×1080_30P, 1920×1080_25P, 1280×720_60P, 1280×720_50P
	Encoding	MPEG-4 AVC/H.264, HEVC/H.265	
	Bit-rate	1~15Mbps for each channel	
	Rate Control	CBR/VBR	
	GOP Structure	IP, IBBP, IBBBP	
Audio	Encoding	MPEG-1 Layer 2, LC-AAC, HE-AAC, HE-AAC V2; AC3 Pass-through	
	Audio Delay	-400---1000ms	
	Sample rate	48KHZ	
	Bit-rate	48Kbps~384Kbps (MPEG-1 Layer 2 & LC-AAC) 24 Kbps~128 Kbps (HE-AAC) 18 Kbps~56 Kbps (HE-AAC V2)	

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Multiplexing	Maximum PID Remapping	180 input per channel	
	Function	PID remapping (automatically or manually)	
		Accurate PCR adjusting	
		Generate PSI/ SI table automatically	
Modulation	ISDB-T	Standard	ARIB STD-B31
		Bandwidth	6M
		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
		MER	≥40dB
		RF frequency	50~960MHz
		RF out	16 non-adjacent carriers output (maximum bandwidth 192MHz)
		RF output level	-20dBm~+10dBm, 0.1dB stepping
Stream output	1 ASI output as mirror of one of RF output carriers-Optional 16 MPTS output (DATA2 port only) over UDP and RTP/RTSP as mirror of 16 ISDB-T carriers, 1*1000M Base-T Ethernet interface		
System function	Network management (WEB)		
	Chinese and English language		
	Ethernet software upgrade		
Miscellaneous	Dimension (W×L×H)	482mm×440mm×44mm	
	Environment	0~45°C(work); -20~80°C (Storage)	
	Power requirements	AC 110V± 10%, 50/60Hz, AC 220 ± 10%, 50/60Hz	