EMI3180

SD MPEG-2/H.264 DVB-C/DVB-T
Digital Video Encoder Modulator



EMI3180 is a new generation and highly integrated SD encoder modulator combining MPEG-2/H.264 SD encoding, QAM RF reception, transport stream processing and QAM/DVB-T modulation in a 1RU chassis. It's ideal for broadcasters, cable network operators and media providers looking to reduce equipment costs and lower total power consumption for both digital television service contribution and distribution.

EMI3180 SD Encoder Modulator supports 10×CVBS (12 channels option) and 10 pairs of unbalanced audio input and 1×RF output. After coded and modulated, the input signal can be directly output or mixed output with original TV signal.

As a comprehensive contribution and distribution equipment, the Web browser management is also be introduced for local and remote monitoring and control, this can significantly reduce management time and save operating expense.

Features

- 10/12 channels of MPEG-2/H.264 SD video encoding
- High picture quality in ultra low bit rate to reduce network overheads or costs
- encoding rate range from 1Mbps to 7Mbps
- Support VBR/CBR video encoding
- DVB-C/DVB-T RF output, RF Range: 36-900Mhz
- DVB-CAS scrambling (option)
- Keyboard+LCD control and network management
- Local and remote firmware upgrades

TECHNICAL SPECIFICATIONS

Input

Analog Video/Audio Input	10/12 CVBS
	10/12 pairs of unbalanced audio
Video Coding	MPEG-2/H.264
Resolution	720×576 (PAL); 720×480 (NTSC)
Bit Rate	1.0~15Mbps continuously adjustable per channel

Audio Coding

Sampling	32KHz, 44.1KHz, 48KHz
Code Rate	64, 128, 192, 256, 384Kbps
Property	MPEG-1, Layer 1/2

Output

	1×DVB-T RF (36-900MHz) F-head, DVB-C RF

DVB-T Modulation

Frequency Range	36~900MHz, 1KHz step
Constellation	QPSK, 16 QAM, 64 QAM
Baudrate	1/2, 2/3, 3/4, 5/6, 7/8
Protection Interval	1/32, 1/16, 1/8, 1/4
Level Attenuation Range	0~30dB
Bandwidth	6M, 7M, 8M
Transmode	2K, 8K
MER	≥42dB

QAM Modulation

Output Connector	1 x RF Output
Connector Type	F-Type (Female, 75Ω)
RF Frequency Range	48 to 870 MHz
Bandwidth	6 or 8MHz
	ITU-T J.83 Annex A
Annex A	16 /32 /64 /128 /256QAM
Annex A	4.2 to 7 Mbaud
	90 to 110dBμV (RF output Port) 70 to 90dBμV (-20dB test port)
MER:	≥38dB (64QAM, 6875MBaud)
SNR (Out of band)	≥50dB
Return Loss	≥12dB
	0 to 10dB, Step Size 0.25dB

DVB-C Scrambling option

Scrambling algorithm	DVB-CAS
Embedded scramblers number	4
Table update	CAT/PMT

Control

Interface	1 x 10/100 Base-T Ethernet
Connector	RJ-45
Management	Web browser

Environment

Input Voltage	90-250VAC, 50/60Hz
Power consumption	≤50W
Operating temperature	0℃ to 45℃(32℉ to 113℉)
Storage temperature	-20℃ to 80℃ (-4℉ to 176℉)
Operating Humidity	90%, non-condensing
Dimensions	482mm*44.5mm*410mm
Weight	5Kg

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