

Overviews

EM4000A series products are DEXIN' s new breakthrough all-in-one devices which integrate encoding (MPEG-2 HD, MPEG-4/AVC H.264) and modulating to convert V/A signals into DVB-C/DVB-T/ATSC-T/ISDB-T RF output. It has equipped with 4 HDMI channels input and 1 ASI input and output with 2 ASI ports and 1 IP (4*SPTS or 1 MPTS) over UDP, RTP/RTSP through data port. It adopts inner drawer-type structural design which greatly facilitates the change of encoding modules (HDMI/SDI/...) as needed. The signals source could be from satellite receivers, closed-circuit television cameras, Blue-ray players, and antenna etc. Its output signals are to be received by TVs or STBs and etc. With its various inputs available, our EM4000A series products are wildly used in public places such as metro, market hall, theatre, hotels, resorts, and etc for advertising, monitoring, training and educating in company, schools, campuses, hospital etc . It' s a good choice to offer HD channels and more.



Feature

- 4* HDMI/SDI input
- MPEG2 & MPEG4 AVC/H.264 HD/SD video encoding
- Up to 1920*1080@50P/60P (MPEG4 AVC/H.264)
- Up to 1920*1080@50I/60I (MPEG2 HD)
- Huge video buffer (for SDI interface), free to switch video sources
- MPEG1 Layer II, MPEG2-AAC, MPEG4-AAC, AC3 2.0 (Optional) audio encoding
- 1*ASI input for re-mux and ASI out—(Optional);
- 1*RF input for mix—(Optional)
- Support CC (closed caption) for SDI interface (Optional)
- Simultaneously encoding each channel more than 10Mbps
- DVB-C/DVB-T/ATSC-T/ISDB-T RF out for option
- Support EAS control for DVB-C and ATSC—(Optional)
- Support IP (4 * SPTS or 1 MPTS) output over UDP, RTP/RTSP protocol
- LCN support (Logical Channel Number)
- Excellent modulation quality MER≥42dB
- RF Frequency range 30Mhz~960Mhz
- LCD display, Remote control and firmware
- Web NMS management; Updates via we

Specification

Item	Parameter		
HDMI Encoding Section			
Video	Encoding	MPEG2, MPEG4 AVC/H.264	
	Input	HDMI*4 (or SDI*4)	
	Resolution	1920*1080_60P, 1920*1080_50P, (-for MPEG4 AVC/H.264 only) 1920*1080_60i, 1920*1080_50i, 1280*720_60p, 1280*720_50P 720*480_60i, 720*576_50i	
	Low delay	Normal, mode 1 mode 2	
Audio	Encoding	MPEG1 Layer II, MPEG2-AAC, MPEG4-AAC, AC3 2.0(Optional)	
	Sample rate	48KHz	
	Bit rate	64kbps, 96kbps, 128kbps, 192kbps, 256kbps, 320kbps	
DVB-C Modulator Section			
Standard	J.83A , J.83B, J.83C		
MER	≥42dB		
RF frequency	4 carriers combined output; 30~960MHz, 1KHz step		
RF output level	-30~ -10dbm(77~97 dbμV), 0.1db step		
Symbol rate	5.000~9.000Msps adjustable		
	J.83A	J.83B	J.83C
Constellation	16/32/64/128/ 256 QAM	64QAM/ 256QAM	64QAM/ 256QAM
Bandwidth	8M	6M	6M
DVB-T Modulator Section			
Standard	EN300744		
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	≥42dB		
RF frequency	2 carriers combined output; 30~960MHz, 1KHz step		
RF output level	COFDM DVB-T out		
RF output level	-30~ -10dbm (77~97 dbμV), 0.1db step		

ISDB Modulator Section	
Standard	ARIB STD-B31
Constellation	DQPSK,QPSK, 16QAM, 64QAM
Bandwidth	6M
Guard Interval	1/32, 1/16, 1/8, 1/4
Transmission Mode	2K, 4K, 8K
MER	≥42dB
RF frequency	1/2 carriers combined output; 30~960MHz, 1KHz step
RF output level	-30~ -10dbm (77~97 dbμV), 0.1db step
ATSC Modulator Section	
Standard	ATSC A/53
Constellation	8 VSB
RF output level	-63~-16dBm (44~91 dBμV), 1dB step
MER	≥42dB
RF frequency	4 carriers combined output; 30~960MHz, 1KHz step
RF output level	-26~-10dbm (81~97dbμV), 0.1db step
System	
Local interface	LCD + control buttons
Remote management	Web NMS
Language	English
General	
Power supply	AC 100V~240V
Weight	4.5kgs

Principle Chart

