

INGRON7208AEM Eight-Channel CVBS to DVB-T MPEG-2/H.264 SD Encoder Modulator



Features

- Support all DVB-T EN300744 standard
- Video compression: MPEG-2 SD/H.264
- Audio compression: MPEG-1 Layer II; AC3 optional
- PAL/NTSC modes available
- Providing ASI and IP (UDP, RTP/RTSP) output
- Able to multiplex local digital signals with external TS from ASI input
- Equipped with empty packets filtering of IP out
- Input interface: 8*CVBS, 8*unbalanced stereo L/R
- Multi-pass LookAhead CBR or VBR encoding
- Built-in PCR capability
- Dynamic GOP automatic management
- Providing PSI/SI compilation and NIT, LCN insertion
- Easy operation and upgrading by keyboard or LCD
- SNMP or WEB management for control

Specifications

Video Compression

Video Compression	MPEG-2 SD/H.264, 4:2:0 MP@ML
Video Input	8*CVBS
Analog Video Input	PAL, NTSC
Resolution	NTSC / 720*480_59.94i, PAL / 720*576_50i,
Bit-Rate	0.5 ~ 15 Mbps for H.264 encoding, CBR/VBR 1~5 Mbps for MPEG-2 encoding, CBR/VBR
Aspect Ratio	4:3, 16:9
Video pre-processing	De-Interlacing, Noise Reduction, Sharpen

Audio Compression

Audio Compression	MPEG-1 Layer II; AC3 optional
Audio Input	8*unbalanced stereo L/R
Sampling Rate	48 KHz
Sampling Accuracy	24-bit
Bit-Rate	64 Kbps ~ 320 Kbps (for any channel)

Input

Video	8*CVBS, BNC interface
Audio	8*unbalanced stereo L/R, BNC interface
TS	1*ASI, BNC interface

Multiplexing

Multiplexing with external ASI(1*SPTS or1*MPTS) in
Multiplexing with 8 local encoded programs
Providing PSI/SI compilation and NIT, LCN insertion

Output

ASI Output	Number	1*ASI+1*ASI(backup)
	Standard	EN 50083-9 ASI
	Output Bit Rate	Max. 170 Mbps
	MPEG Frame	188/204 byte
	Reflection Loss	>10 dB
	Connector Type	75 Ω, BNC interface
IP Output	Transport Protocol	TS over IP output, UDP,RTP/RTSP protocol
	Mode	Unicast/Multicast
	IP Output Channel	1*MPTS or 8*SPTS
	Connector Type	RJ45, 10/100M
	Support empty packets filtering	

Modulation

DVB-T Mode	Standard	EN300744
	Constellation	QPSK, 16QAM, 64QAM
	Frequency Range	30 ~ 960 MHz, by 1 KHz stepping
	Bandwidth	6M, 7M, 8M
	Guard Interval	1/4, 1/8, 1/16, 1/32
	MER	≥42 dB
	Output Level	-30 ~ -10 dBm(77~97dbμV), by 0.1 dB stepping
	FEC	1/2, 2/3, 3/4, 5/6, 7/8
	FFT Mode	2K, 8K
	RF Out	2*DVB-T COFDM frequency

Management

Connector	1*RJ-45, 10/100 Base-T (NMS interface)
Remote Control	by NMS
Local Control	LCD and keyboard on front panel

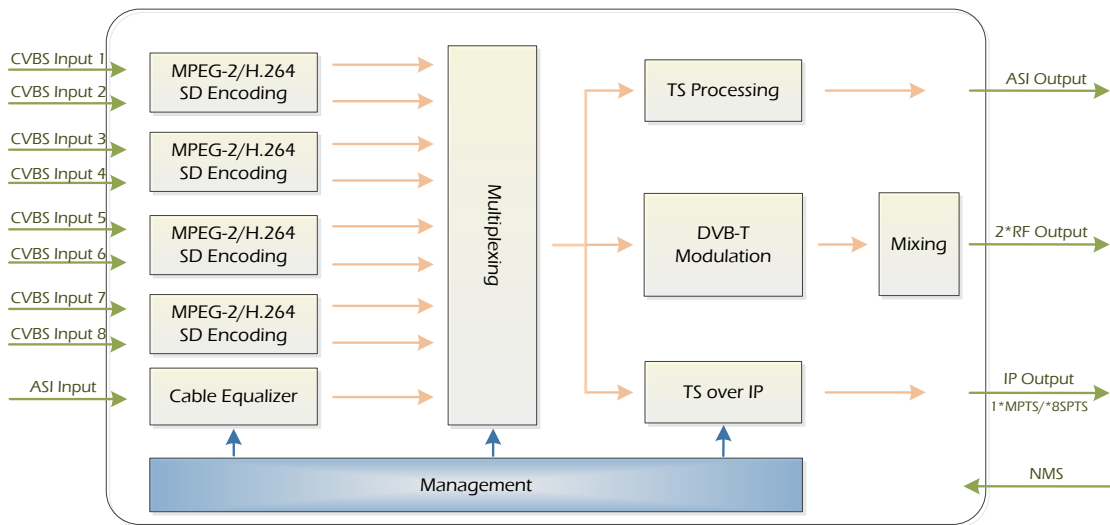
General

Voltage	100~240V AC, 50/60Hz
Consumption	25 W
Environment	0~45°C (Operation), -20~80°C (Storage)
Dimension (W*D*H)	482*410*44 mm
Gross Weight	2.8 KGS

Introductions

INGRON7208AEM Eight-Channel CVBS to DVB-T MPEG-2/H.264 SD Encoder Modulator offers a professional and high-integration modulator, together with encoding module. The device is able to accept 8-channel of CVBS signals, and compresses signals in MPEG-2/H.264 SD standard. Additional TS from ASI port is able to be mixed and multiplexed with the input channel(s). The device then modulates signals in 2*DVB-T carriers in excellent index, with one RF and the other test out interfaces. INGRON7208AEM is able to be flexibly taken as an independent encoder, or modulator, too, as per its design of modularization. Due to its professional and full functions, INGRON7208AEM is able to be applied to IPTV system, digital TV broadcasting & distribution systems, home entertainment, advertisement broadcasting, etc., in shopping mall, hospital and school, hotel and restaurant, museum, theater, cinema, community, airport, railway station, public square, club, and so on.

Diagram



Rear Panel



Options

	INGRON7208EM	INGRON7208AEM
Encoding Standard	MPEG-2 SD	MPEG-2 / H.264 SD