

## INGRON7004EM Four-Channel DVB-S/S2 to DVB-C/DVB-T TransModulator



### Features

- Integrated with demodulation, trans-multiplexing, and modulation modules in one unit
- Up to 4\*QPSK/8PSK DVB-S/S2 inputs
- 4\*CI slot configured, with each able to decrypt multiple programs
- ASI input for re-multiplexing available
- RF in additionally available, for mixing
- 1 or 2\*adjacent DVB-T, or 1 or 4\*DVB-C out
- ASI and IP(100M, UDP) output available
- LCN(Logical Channel Number) supported
- Good performance in modulation quality
- Easy-operation by LCD and keyboard on front panel
- Network upgrading by NMS and http web network management supported

### Specifications

#### Tuner Input

DVB-S/S2 Input	Demodulation Mode	QPSK, 8PSK
	Input Frequency	950~2150MHz
	Symbol Rate	2~45Msps
	FEC	DVB-S(QPSK): 1/2, 2/3, 3/4, 5/6, 7/8; DVB-S/S2(QPSK, 8PSK): 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10

#### Input

DVB-S/S2 Tuner Input	Number	4*DVB-S/S2
	Connector Type	F interface, 75Ω
ASI Input	Number	1*ASI, for re-multiplexing
	Connector Type	BNC interface, 75Ω
Tuner Input	1*Tuner, F interface, 75Ω	
	DVB-C/ DVB-T /ISDB-T/ATSC tuner in compatible, for mixing	

#### Modulation

DVB-T Mode	Standard	DVB-T (EN300 744, COFDM)
	Output Channel	Single/Dual Carriers
	Constellation	QPSK, 16QAM, 64QAM
	Bandwidth	6M, 7M, 8M
	FFT	2K, 8K
	Guard Interval	1/32, 1/16, 1/8, 1/4
	FEC	1/2, 2/3, 3/4, 5/6, 7/8
	MER	≥42 dB
	Frequency Range	30 ~ 960 MHz, in 1 KHz stepping
	Output Level	-30 ~ -10 dBm(81~97 dBμV), by 0.1 dB stepping
	RF Out	1*DVB-T frequency or 2*DVB-T adjacent frequencies

DVB-C Mode	Standard	J.83A , J.83B, J.83C
	Output Channel	Single/Four Carriers
	Constellation	J.83A: 16 / 32 / 64 / 128 / 256 QAM (8M); J.83B: 64 / 256 QAM (6M); J.83C: 64 / 256 QAM (6M)
	Symbol Rate	5.000~9.000 Msps
	MER	≥42 dB
	Frequency Range	30 ~ 960 MHz, in 1 KHz stepping
	Output Level	-30 ~ -10 dBm(81~97 dbμV), by 0.1 dB stepping
	RF Out	1*DVB-C frequency or 4*DVB-C adjacent frequencies

**Output**

RF Output	Number	1*RF(1 or 2*adjacent DVB-T, 1 or 4*adjacent DVB-C)
	Connector Type	75Ω, F interface
ASI Output	Number	1*ASI+1*ASI(backup)
	Standard	EN50083-9
	Output Loss	>10 dB
	Connector Type	75Ω, BNC interface
IP Output	Number	1*TS over IP, 1*MPTS
	Protocol	UDP, unicast/multicast
	Connector Type	RJ45, 10/100M
	Support empty packet filtering	

**Management**

Remote Control	by NMS
Local Control	LCD and keyboard on front panel
Upgrading	By Ethernet interface
Language	English

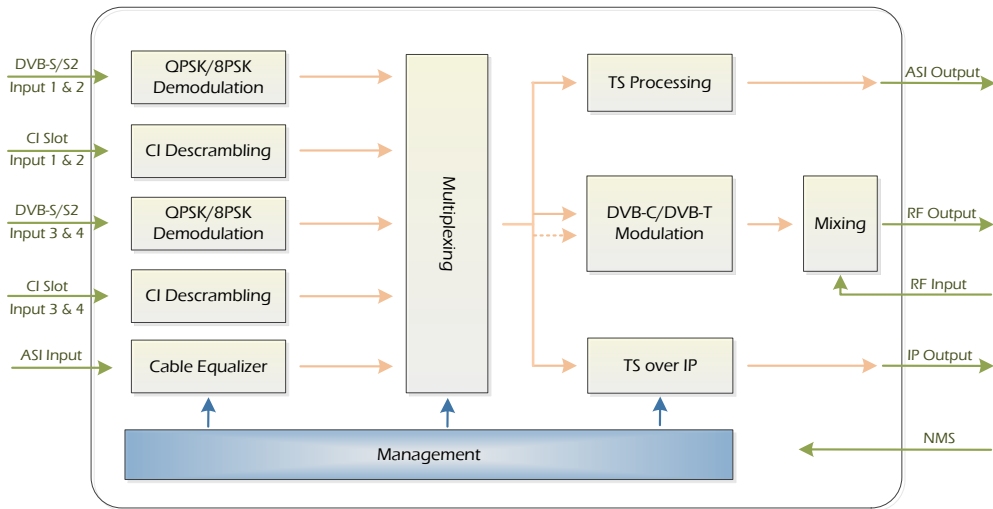
**General**

Voltage	100~240V AC, 50/60Hz
Power Consumption	25 W
Environment	0~50°C (non-condensing)
Dimension (W*D*H)	410*460*44 mm
Gross Weight	4.5 KGS

**Introductions**

INGRON7004EM 4\*DVB-S/S2 to DVB-C/DVB-T TransModulator offers a professional and high-integrated modulator, together with demodulation, re-multiplexing and modulation functions. The device is able to accept 4 satellite signals in DVB-S/S2, demodulate and re-multiplex them with additional ASI in or/and RF(DVB-C, DVB-T, ISDB-T or ATSC) in. The device then modulates signals in DVB-T(in 1 or 2 adjacent carriers) or DVB-C(in 1 or 4 adjacent carriers). Due to its professional and full functions, INGRON7004EM has been widely 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

	INGRON7004EM-10	INGRON7004EM-20	INGRON7004EM-30
HDMI Input	4*HDMI	/	/
SDI Input	/	4*SDI	/
Tuner Input	/	/	4*Tuner
ASI Input		1*ASI	