

INGRON 1104SR Four-Channel Professional Receiver



Features

- Up to 4*Tuner input, modes in DVB-T2/T, DVB-S/S2, DVB-C
- Integrated demodulation & descrambling modules within one unit
- 1*ASI and 1*IP(UDP, RTP/RTSP protocol) inputs, for Re-Multiplexing
- Each CAM able to decrypt multiple programs from Tuner, ASI, or IP input
- BISS-1 and BISS-E decryption modes supported
- Max. 4*DVB-CI slots for multi-program decryption
- IP(1*MPTS & 8*SPTS) output on UDP and RTP/RTSP protocol
- Unicast and multicast modes supported for IP output
- Support maximum 128 PID mapping per input
- Monitoring working situation by network system
- Software upgrading through IP
- Easy-operation by LCD and keyboard on front panel

Specifications

Tuner input

DVB-C Mode	Connector Type	4*F type female, 75Ω for input; 4*F type female, 75Ω for loop through output
	Standard	J.83A/B/C
	Input Frequency	47 ~ 860 MHz
	Input Level	45 ~ 75 dBuV
	Symbol Rate	1 ~ 7 Mbaud
	Constellation	16/32/64/128/256 QAM
	Bandwidth	6 MHz, 7 MHz, 8 MHz
DVB-S/S2 Mode	Connector Type	4*F type female, 75Ω for input; 4*F type female, 75Ω for loop through output
	Input Frequency	950 ~ 2150 MHz
	Symbol Rate	2 ~ 45 MBaud (for DVB-S) 1 ~ 45 Mbaud (for DVB-S2, QPSK) 1 ~ 30 Mbaud (for DVB-S2, 8PSK)
	Code Rate	(DVB-S, QPSK) 1/2, 2/3, 3/4, 5/6, 7/8; (DVB-S2, QPSK, 8PSK) 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10
	Input Level	-65~-25 dBm
	Roll-off Factor	(DVB-S) 0.35; (DVB-S2) 0.35, 0.25, 0.2
	Bandwidth	6 MHz, 7 MHz, 8 MHz
DTV-T/T2 Mode	Connector Type	4*F type female, 75Ω for input; 4*F type female, 75Ω for loop through output
	Input Frequency	44 ~ 1002 MHz
	Input Level	-70 ~ -20 dBm
	Bandwidth	6 MHz, 7 MHz, 8 MHz
	FFT	2K/8K

Input

ASI Input	Standard	DVB-ASI, EN50083-9
	Input Bit-Rate	≤49Mbps
	Connector Type	1*BNC female, 75Ω
IP Input	Connector Type	RJ45 10/100M Base-T
	Protocol	UDP, RTP/RTSP
	Bit-Rate	≤70Mbps

DVB-CI Module

Descrambling Processing	DVB-CAS
Smart Card Interface	ISO7816
Interface Card Separation	PCMCIA
BISS Mode	BISS-1, BISS-E

Output

ASI Output	Number	2*ASI
	Standard	EN 50083-9 ASI
	Output Bit Rate	Max. 54 Mbps
	MPEG Frame	188/204 byte
	Reflection Loss	>10 dB
IP Output	Connector Type	75 Ω, BNC interface
	Protocol	TS over IP output, UDP,RTP/RTSP protocol Multicast/Unicast
	Output Channel Qty.	1*MPTS & 8*SPTS
	Connector Type	RJ45, 10/100M Base-T

Management

Local Control	by keyboard or LCD on front panel
Upgrading	by Ethernet interface
Remote Control	by web NMS
Language	English

General

Voltage	100~240V AC, 50/60Hz
Power Consumption	18.0 W
Environment	0~45°C (Operation), -20~80°C (Storage)
Dimension (W*D*H)	482*405*44 mm
Gross Weight	4.0 KGS

Introductions

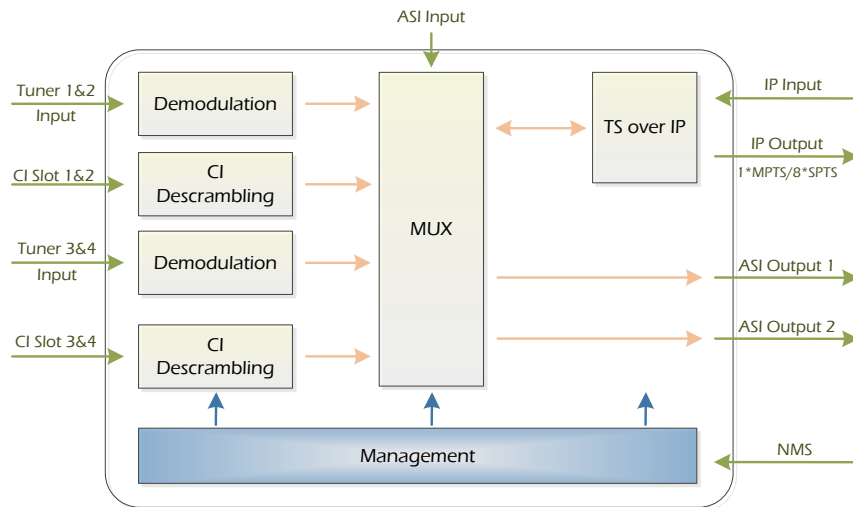
INGRON1104SR Four-Channel Professional Receiver is a device integrated with modules of demodulation and de-scrambler modules. It professionally supports tuner input in DVB-C, DVB-T/T2, or DVB-S/S2, and outputs with ASI or IP streams. It is also configured with 1*ASI and 1*IP inputs, so that external streams can be re-multiplexed with the input signals from Tuner. The device can be applied to Digital Satellite News Gathering (DSNG), due to the adoption of BISS descrambling function. With the two CAMs/CIs, programs input from encrypted RF, ASI and IP can be descrambled. IP output stream can be in 1*MPTS and 8*SPTS, in unicast and multicast modes. INGRON1104SR is a stable, mature and high integrated receiver with excellent performance index. Worldwide operators have been adopted this unit in their digital TV head-end contribution/distribution system, IPTV projects and so on.

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Diagram



Rear Panel



Options

	INGRON1104SR-S2	INGRON1104SR-T2	INGRON1104SR-C
Tuner input	DVB-S/S2	DVB-T/T2	DVB-C
	INGRON1101SR	INGRON1102SR	INGRON1104SR
Demodulation Module	1*single-tuner module	1*Dual-tuner module	2*Dual-tuner module