

INGRON2104ES Four-Channel MPEG-2 SD Encoder INGRON2108ES Four-Channel MPEG-2 SD Encoder



Features

- Video compression: MPEG-2 SD
- Audio compression: MPEG-1 Layer II, and optional with AC3
- PAL/NTSC modes available
- Able to multiplex local digital signals with external TS from ASI input
- Input interface: 4*CVBS, 4*unbalanced stereo L/R (8*CVBS, 8*unbalanced stereo L/R)
- Equipped with empty packets filtering of IP out
- Providing ASI and IP (UDP) output
- 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, 4:2:0 MP@ML
Video Input	4*CVBS; (8*CVBS)
Analog Video Input Mode	PAL, NTSC
Resolution	NTSC / 720*480_59.94i, 544*480_59.94i, 352*240_59.94i, 320*240_59.94i, 176*240_59.94i, 160*120_59.94i; PAL / 720*576_50i, 640*576_50i, 352*288_50i, 320*288_50i, 176*288_50i, 176*144_50i
Bit-Rate	0.8 ~ 19 Mbps, CBR/VBR
GOP	IPPPP, IBPBP, IBBPB, IBBBP
Video pre-processing	De-Interlacing, Noise Reduction, Sharpen

Audio Compression

Audio Compression	MPEG-1 Layer II; AC3 for option
Audio Input	4*unbalanced stereo L/R; (8*unbalanced stereo L/R)
Sampling Rate	48 KHz
Bit-Rate	64 Kbps ~ 384 Kbps (for any channel)

Input

Video	4/8*CVBS, BNC interface
Audio	4/8*unbalanced stereo L/R, BNC interface
TS	1*ASI, BNC interface

Multiplexing

Multiplexing with external ASI(1*SPTS or 1*MPTS) in
Multiplexing with 4/8 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 protocol
	IP Output Channel	1*MPTS or 4/8*SPTS
	Connector Type	RJ45, 10/100M
	Mode	Unicast/Multicast
	Support empty packets filtering	

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

INGRON2104ES Four-Channel MPEG-2 SD Encoder (/INGRON2108ES Eight-Channel MPEG-2 SD Encoder) acts as a professional broadcasting device for audio and video compression with additional multiplexing functions. It is configured with 4-channel of CVBS video(8-channel item available) and 4 unbalanced stereo analog L/R audio(8-channel item available) inputs, to realize simultaneous encoding of multiple programs. With an additional ASI input, the input 4 (or 8) channels can be further multiplexed with an external transport stream(SPTS or MPTS). Supported by standard MPEG-2 SD video and MPEG-1 Layer II, and AC3(for option) audio encoding, INGRON2104ES/INGRON2108ES performs well in ultra-low bit rate and low latency. The device outputs with ASI and TS over IP(in 1*MPTS or 4/8*SPTS), to meet variety of needs in digital TV industry, such as IPTV, DTV broadcasting head-end systems, etc.. Its easy-operating design, high and unrivaled performances, well compatibility and integration, all make this device a prolonged, mature and welcomed option for worldwide operators and distributors.

Rear Panel



RES2104



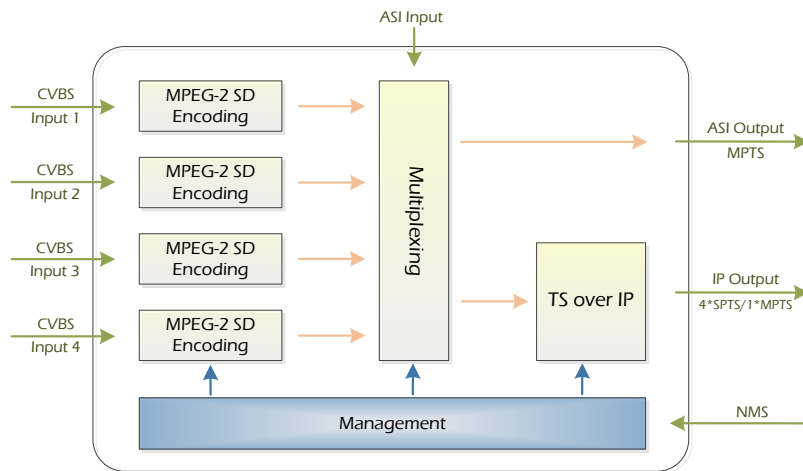
RES2108

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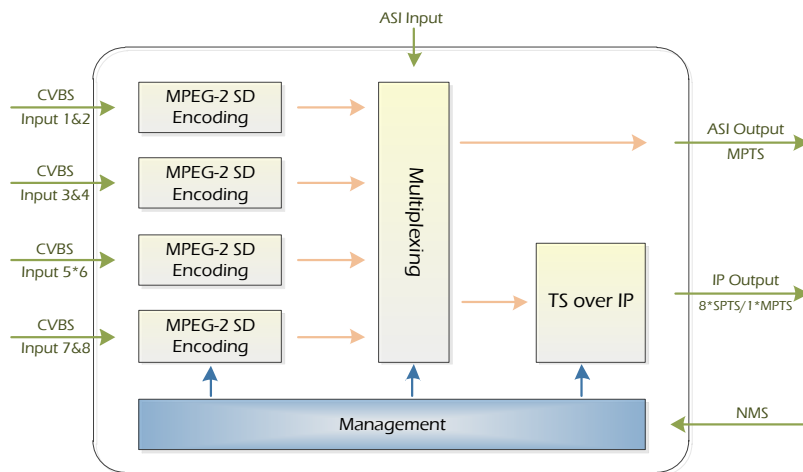
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Diagram



RES2104



RES2108

Options

	Four-Channel	Eight-Channel
	INGRON2104ES	INGRON2108ES
IP Out	1*MPTS & 4*SPTS	1*MPTS & 8*SPTS