



## MPEG2/4 4:2:0/4:2:2 AVC SD/HD 4CH Encoder ENC-224-0-SH-E\_4CH

Temix ENC-224-0-SH-E MPEG2/MPEG4 HD/SD 4:2:2/4:2:0 Encoder is a high quality, professional, flexible and really cost-effective solution for digital satellite uplinks.



This Encoder is a state of the art evolutionary product which is the best performing & fully programmed high-end encoding with the highest video quality and lowest latency.

Relevant features are:

- Component, Composite, HDMI, HD/SD-SDI video inputs
- Ultra low latency as 150ms
- Full HD up to 1080P
- Support 4:2:2 (10 bit) & 4:2:0 (8 bit)
- Digital, Analog and SDI embedded audio (8 channel optional) inputs.
- 5.1 channel Dolby Digital (AC-3) encoding support
- 7.1 channel SPDIF audio optical input (pass through).
- Additional 1xASI input for supporting of insertion of externally generated PSIP into the transport stream.
- Provides internally generated PSI, PSIP, SI.
- Control of Frame Rate
- Selectable MPEG-2 HD or H.264 HD real-time video encoding.
- Simultaneous outputting of 2x Transport stream (ASI) with UDP/IP or RTP/IP transport stream.
- Dolby Digital (AC-3), MPEG-1 Layer II, AAC-LC, HE-AAC audio encoding.
- CEA-608 input source is converted to 708.
- Internally generated TVCT, CVCT, SDT, NIT
- Excellent IP converter integrated performance: Much lower latency & stable IP output
- Control and monitoring via web browser, front panel, or SNMP.
- Integrated Advanced Scaler function: Control of Frame rate; Image enhance; Phase Noise; Correction of Color; Control of Gamma

### Benefits:

- High-End Encoding
- Ultra Low Latency 150ms
- Chroma Format 4:2:0 4:2:2
- HD & SD
- MPEG2 & MPEG4 H.264
- 4 channel audio  
4ch AES/EBU Digital Audio  
4 stereo (8 channels) analog input with D-sub type

\*The Information included in this data sheet may be changed without advise. rev\_01/18

Video Input		Audio Input	
Analog Input	Component , Composite up to 1080i	Analog Input	4 stereo
Level	1 Vp-p	Freq. Range	20Hz - 20KHz
Digital Input	HDMI , HD-SDI	Impedance	600 Ohm
Level	1000 mVp-p (HDMI) 800mVp-p (HD-SDI)	Connector	D-SUB 15pin x 2
Resolutions	480i29,97, 576i25, 720p50/59,94 1080i25/29,97 1080p25/29,97	Digital Input	4x AES-EBU, Embedded SDI/ HDMI (4 Stereo, 8 Channels)
		Sampling Rate	32, 44,1, 48 KHz
		Connector	BNC (75Ohm) / HDMI-19PIN
SD Aspect Ratio	4:3, 16:9	Optical Input	SPDIF (7.1 Channel) (pass through)

### TEMIX Communications Engineering

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communications

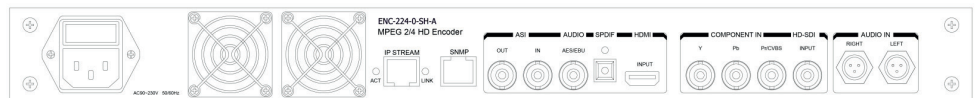
# MPEG2/4 4:2:0/4:2:2 AVC SD/HD 4CH Encoder ENC-224-0-SH-E\_4CH



- **Audio Mix:**  
4 Stereo (8 ch) or 5.1 ch
- Reduce the cost of transmission as supporting wide range of bit-rate control and advanced video coding techniques
- **Ethernet Interface:** RJ45, 10/100Base-T, SNMP Protocol

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<b>Video Encoder</b>			
Encoding	MPEG-2 HP@HL, MP@HL, MP@ML, H.264 HP@L4, MP@L3	Encoding Rate	MPEG-2: 1.6-50 Mbps H.264: 0.6-50 Mbps
Chroma Format	4:2:0 (8bit), 4:2:2 (10bit)	PSNR	38dB
Bit Rate Mode	CBR,VBR	Latency	150ms typical
<b>Audio Encoder</b>			
Encoding	MPEG-1 Layer II (2ch) AAC LC (2ch, 5.1ch)	AC-3 (2ch) HE-AAC v1 (5.1ch)	AC-3 Pro (2ch, 5.1ch) HE-AAC v2 (2ch)
Bit rate AC-3	128, 192, 256, 384 KHz	AC-3 Pro	96, 112, 128, 160, 192, 224, 256, 320, 384KHz
MPEG1	64, 96, 112, 128, 160, 192, 224, 256, 320, 384KHz	AAC LC	32,48,56,64,80,96,112, 128,160,192, 224, 256, 320, 384KHz
HE AAC v2	32, 48, 56, 64, 80, 96KHz	AC-3 Pro 5.1	224, 256, 320, 384, 448, 576, 640KHz
AAC LC 5.1	96, 112, 128, 160, 192, 224, 256, 320, 384KHz	Dolby E-Pass Through	*Under the audio input source of Dolby-E only
Delay	100 - 400 ms	HE AAC v1 5.1	96, 112, 128, 160, 192, 224, 256KHz
<b>TS Input</b>			
Transport Stream	DVB-ASI 1 Port	Connector	BNC (75 Ohm)
Packet Format	188 Byte	Input Level	800mVp-p
<b>TS Output</b>			
Transport Stream	ASI 2 port	Connector	BNC (75 Ohm)
TS Bit Rate	MPEG-2: 2.5-60 Mbps H.264: 2.5-60 Mbps	Packet Format	188 Byte
<b>IP TS Output</b>			
Output	1 Port	Ethernet type	10/100 Base-T
Connector	RJ-45	Format	UDP/IP, RTP/IP
IP Address Format	Multicast, Unicast	TS Bit rate	MPEG-2: 2.5-60 Mbps H.264: 2.5-60 Mbps
		TS Packet Rate	188 Byte
<b>General</b>			
Power Requirements	AC 90~230V, 50/60Hz, max 120 W		
Weight & Dimensions	4.7 kg, 19" x 1RU x 400 mm (W x H x D)		
Operating Temper.	0~50°C		



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