

Encoder/Decoder H.264



> ENC 323

ENC-323 can operate as H.264 encoder or decoder.

As encoder, ENC-323 receives a Standard or High Definition SDI input signal, and processes it according to H.264 standard for video and AAC HEv2 and MPEG-2 LC standards for audio. Alternatively to SDI input, an internal SD/HD video bars generator is available along with an embedded test audio tone, to provide test or emergency video also when the input signal fails. ENC-323 produces an output MPEG-2 Transport Stream, containing the coded streams and SI/PSI tables PAT, PMT, SIT; the device allows the user to set PIDs of PMT, PCR, Audio and Video streams. The main audio channel carried by SDI is always MPEG-2 LC encoded while up to two selectable audio channels can be processed by the internal AAC-HE encoder at the same time.

As decoder, ENC-323 receives an input TS and processes it according to H.264 standard for video and MPEG-2 LC for audio. The output is transmitted via SDI, standard or high definition according to the encoded input.

VIDEO SPECIFICATIONS	
Video Compression and Bit-rate (CBR/VBR)	H.264 (ISO / IEC 14496-10), High-Level Profile 4.0 Half-duplex Codec
Video Processing	LookAhead multi-pass processing
	Scene-cut, fade/dissolve and skin tone detection
	Dynamic GOP management with adaptive I-picture and B-picture placement
	Automatic input format (1080i/p, 720p) detection and switching (SDI only)
	Inverse telecine
Video Input Filtering	Motion compensated temporal fi lter (MCTF)
	Horizontal fi lter
	Input deblocking filter
Aspect Ratios	4:3 and 16:9
	AFD and WSS control
SD Resolutions and Frame Rates	SD 480i, 576i
HD Resolutions and Frame Rates	HD 1080i (25Hz), 1080i(30Hz), 1080p (25Hz), 1080p (30Hz), 1080p (24Hz), 720p(60Hz).
HD Resolutions Et frame Rates	1920 x 1080 x 59.94i/50i
	1440 x 1080 x 59.94i/50i
	1280 x 720 x 59.94p
	720 x 480 x 59.94i
	720 x 576 x 50i

AUDIO SPECIFICATIONS	
Standard Channels	1 stereo pair
Audio Formats	MPEG-1 Audio Layer 2, MPEG-2 AAC (LC profile), Linear PCM, Dolby® Digital (AC-3)1
Operating Modes Mono, stereo	Mono, Stereo
Encoding Bit-Rate	MPEG-4 AAC HEv2 (bitrate from 16 up to 48 Kbps), MPEG-2 LC (from 64 up to 384 Kbps)

PHYSICAL	
Dimensions	(W x H x D) 19" x 1.75" x 27" (1-RU) 48.26 cm x 4.45 cm x 68.69 cm
Weight	8,81 lbs. / 4 kg

INPUTS AND OUTPUTS	
INPUT	
Video Inputs	ASI. SDI (4x, BNC Connector)
	R Input: 75 Ohm
	V Input: 800 mVpp (500 to 1200 mVpp)
	Standard: CEI EN 50083-9 / SMPTE 259M,292M
	SPI (1x, DB25 Connector)
	R Input: 110 Ohm
OUTPUT	V Input: 385 mVdiff
	Standard:ANSI TIA/EIA-644
	ASI (4x, BNC Connector)
	R Input:75 Ohm
	V Input:800 mVpp (500 to 1200 mVpp)
	Standard: CEI EN 50083-9
HDMI N° Inputs: 1	
Connector: HDMI Type A	

SYSTEM MANAGEMENT	
Control Management GbE	Standalone web user interface
	N° Inputs: 1 Connector: RJ45
	Standard: IEEE 802.3
RS-232	N° Inputs: 1 Connector: DE-9 female

ENVIRONMENTAL	
Cooling	8 fans, temperature controlled air flow front to right side
Operating Temperature	+32° to +122° F 0° to +50° C
Storage Temperature	-4° to +176° F -20° to +80° C
Operating Humidity	< 95% non-condensing
Electromagnetic Compliance	FCC Part 15 Class A CE Mark (EN 55022 Class A and EN 50082-1:1997)
Safety	UL 1950 and cUL C22.2#950 EN 60950 ROHS Directive 2002/95/EC

