

Four Channel SD-Encoder MPEG2/H.264



> ENC 334

ENC 334 is the compact solution for your digital television head end. It provides up to 4 SD channel encoding capacity in order to quickly create a new line up or easily transcode existing analog channel line ups to new digital ones for either DVB-T, DVB-S, IPTV, cable delivery. ENC 334 provides not only video processing, but also stereo audio encoding in MPEG-1, Layer II (MP3) and AAC (HE and LC) formats for each video channel. Video and audio elementary streams are multiplexed in an MPEG-2 Transport Stream for output over an ASI link. A separate ASI input provides support for an external PSIP/SI table data generator.

VIDEO SPECIFICATIONS	
Video Compression and Bit-rate (CBR/VBR)	MPEG-2 MP@ML 2 to 25 Mbps
	MPEG-4 AVC MP@L3.0 0.5 to 25 Mbps
	MPEG-4 AVC BP@L1.2, L1.3 0.1 to 1 Mbps
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	576i @25, 480i @29.97 480i @30 x 720, 704, 640, 544, 528, 480, 352 pixels
Multiscreen Resolutions and Frame Rates	Built-in PIP (not enabled)
SD Resolutions & frame Rates	416x240p @25, 29.97 & 30
	352x288p @25
	320x240p @14.985, 15, 25, 29.97 & 30
	320x180p @14.985, 15, 25, 29.97 & 30
	176x144p @25
Up/Down/Cross-Conversion	576i @25 to 352x288p, 416x240p, 320x240p, 328x180p @25 (SD to LD)
	480i @29.97 & 30 to 416x240p, 320x240p, 328x180p @14.985, 29.97 & 30 (SD to LD)

ANCILLARY DATA SPECIFICATIONS	
Closed Captioning	EIA608B field 1, 2, 1&2
	EIA708B
Ancillary Data and VBI	AFS/BAR, WSS
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

AUDIO SPECIFICATIONS	
Standard Channels	1 stereo pair
Audio Formats	MPEG-1 Layer II, AAC-LC, AAC-HEv1, AAC-HEv2 native encoding
	Dolby Digital Pro (AC3 2.0 & 5.1), AAC-LC/HEv1&2 Surround (5.1) pass-through
Operating Modes Mono, stereo	Mono, Stereo
Encoding Bit-Rate	MPEG Audio Layer II 192 to 384 kbps
	AAC-LC 32 to 384 kbps
	AAC-HEv1 32 to 192 kbps
	AAC-HEv2 32 to 96 kbps

INPUTS AND OUTPUTS	
INPUT	
Video Inputs	four Composite (CVBS), Component(YUV) inputs
Default Audio Inputs	four stereo analog audio inputs
OUTPUT	ASI
	R Input:75 Ohm
	V Input:800 mVpp (500 to 1200 mVpp)
	Standard: CEI EN 50083-9

SYSTEM MANAGEMENT	
Control Management GbE	Standalone web user interface
	N ^o Inputs: 1 Connector: RJ45
	Standard: IEEE 802.3
RS-232	N ^o 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

