RAMe 5200

Multi Channel SD MPEG-2 & AVC/H.264 Encoder

RAMe SD Encoder is among the most compact, power-efficient, full-featured MPEG2 & AVC/H.264 Encoder with broadcast professional quality encoding. Its greatest feature is support of multiple codec either MPEG-2 or AVC/H.264 within the same unit simultaneously. By offering a configuration of up to eight channels in a 1U/19" rack mount unit, operators can provide multiple, feature-rich services utilizing less space than required in a traditional head-end.

The encoder supports PAL or NTSC video input and audio signal can be analog audio. The output can be MPEG IP that meets DVB TS stream standard and IP data standard. The product is ideal for a broad range of applications including contribution and distribution.

KEY FEATURES

- Up to Eight high-quality Encoding channels in 1U/19" rack mounting unit
- Multi-codec support: capable of MPEG-2 and AVC/H.264 encoding of SD video
- MPEG-2 TS/UDP over IP output (FEC)
- Optional DVB-ASI output
- The encoder supports static or dynamic GOP control to improve the efficiency of the encoder and video quality
- Ultra-low bit rate encoding
- Dolby® AC-3, AAC and MPEG1 Layer II encoding, multi-channel passthrough
- Feature to adjust the audio volume prior to encoding

- Facility to delay the audio when audio input is out of synchronization with a video's visual track
- Feature to control picture appearance by adjusting the brightness, contrast and color
- Various video filters available to remove noise and improve the video quality
- PSI/SI information creation
- Highly Efficient and reliable power supply with in-built trip feature to protect the encoder from power surge.
- Support system software upgrade over Ethernet
- Easy to use web-based interface simplifies remote management

VIDEO SPECIFICATIONS

Video Compression	:	MPEG2 & AVC/H.264
Video Processing	:	Horizontal Blur
		Inverse Telecine Detection
		Fade detection
		Scene change Detection
		Deblocking
		MCTF
		Motion Estimation
		Skin Tone Detection
		Weighted Prediction
Aspect Ratios	:	4 x 3
Resolutions	:	NTSC (720 x 480i29.97)
		PAL (720 x 576i25)
Encoding Bit-Rate	:	MPEG2 0.5 to 15 Mbps (4:2:0 CBR)
		H.264 0.25 to 15 Mbps (4:2:0 CBR)
Profiles and Levels	:	H.264 Baseline, Main, High Up to L3.0
		MPEG2 High & Main Profile, Main Level
Chroma	:	4:2:0 MPEG-2 & H.264
		4:2:2 MPEG-2

AUDIO SPECIFICATIONS

Audio Formats	:	MPEG Layer II, Dolby Digital (AC-3),
		AAC, AC-3 pass-through
Operating Modes	:	Mono, Dual channel*, Stereo,
		Joint stereo
Encoding Bit-Rate	:	MPEG Audio Layer II: 56 to 384 kbps
		Dolby Digital (AC-3): 56 to 448 kbps
		AAC: 32 to 384 kbps
Sampling Frequencies	:	32 kHz, 44.1 kHz, 48 kHz

ORDERING INFORMATION

RAMe-5288	:	8 video, 1 stereo audio per channel
RAMe-5248	:	4 video, 2 stereo audio per channel
RAMe-5228	:	2 video, 4 stereo audio per channel
RAMe-5218	:	1 video, 8 stereo audio per channel

INPUTS AND OUTPUTS

Video Inputs	:	Analog composite PAL or NTSC
Audio Inputs	:	Analog Unbalanced
Outputs	:	MPEG TS over UDP/IP (FEC)

POWER

Input Voltage Range	:	100-240 VAC
Line Frequency	:	50-60 Hz
Typical Consumption:		74 W (8 Channels)

ENVIRONMENTAL

Cooling	:	air flow front to side
Operating Temp.	:	Range 0º to 40º C
		(32º to 122º F)
Storage Temp.	:	Range -20º to +80º C
		(-4º to +176º F)
Operating Humidity	:	< 95% non-condensing

PHYSICAL

W x H x D	:	48.26 cm x 4.6 cm x 68cm
	:	19" x 1.75" x 25.7"
Weight	:	24 lbs. / 11 kg

MANAGEMENT

Port	:	Ethernet Port (10/100BaseT)
Protocols		HTTPS, SSH, Telnet
Configuration	:	Web Interface

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