# RAMe 4100

## Multichannel MPEG-2 Encoder

RAMe 4100 Encoder is among the most compact, power-efficient, full-featured MPEG2 Encoder with professional quality encoding. 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 composite video input and analog audio. The output is IP that meets DVB TS stream standard and IP data standard.



## KEY FEATURES

- Up to Eight high-quality Encoding channels in 1U/19'' rack mounting unit

- capable of MPEG-2 encoding of SD video

- Analog audio/video inputs

- 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

- PCR correction to accurately correct several PCR of the input data

- Support system software upgrade over Ethernet

- Easy to use web-based interface simplifies remote management

## VIDEO SPECIFICATIONS

| | | |
|---|---|---|
| Video Compression | : | MPEG2 |
| 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) |
| Profiles and Levels | : | MPEG2 High & Main Profile, Main Level |
| Chroma | : | 4:2:0 & 4:2:2 |

## 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-4188 | : | 8 video , 1 stereo audio per channel |
| RAMe-4148 | : | 4 video , 2 stereo audio per channel |
| RAMe-4128 | : | 2 video , 4 stereo audio per channel |
| RAMe-4118 | : | 1 video , 8 stereo audio per channel |

## INPUTS AND OUTPUTS

| | | |
|---|---|---|
| Video Inputs | : | Analog composite PAL or NTSC |
| Audio Inputs | : | Analog Unbalanced |
| Outputs | : | IP (100 BaseT connectors) |

## POWER

| | | |
|---|---|---|
| Input Voltage Range | : | 96-263 VAC |
| Line Frequency | : | 47-63 Hz |
| Typical Consumption: | | 74 W (8 Channels) |

## ENVIRONMENTAL

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

## PHYSICAL

| | | |
|---|---|---|
| W x H x D | : | 48.26 cm x 4.45 cm x 60.69 cm |
| | : | 19" x 1.75" x 24" |
| Weight | : | 24 lbs. / 11 kg |

## MANAGEMENT

Web Interface

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