HEVC/H.265 4K ENCODER

The OMB chip-based HEVC/H.265 4K encoder has a 30-50% bit-rate reduction compared to H.264 and it provides compression efficiency to distribute 4K TV programs. It stands for its stability and lower power consumption, and it can also integrate with various audio codecs and support comprehensive ancillary data and metadata.

MAIN ADVANTAGES

- Chip-based HEVC/4K codec for better efficiency and stability.
- Up to twenty FHD or five 4K programs encoding via quad-SDI.
- 4:2:2/4:2:0 at 8/10 bits for contribution or distribution.
- Multiple audio and volume levelling.
- Reliable with redundancy design and dual power.
- Compatible for CC and subtitles.

GENERAL CHARACTERISTICS

INPUT	
INTERFACE	Quad 3G/HD-SDI input (level B for now and level A for future) HDMI 2.0 input (future)
OUTPUT	
INTERFACE	4xASI outputs 1Gbit RJ45 output (SPTS)

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VIDEO ENCODING	
HEVC/H.265	Main
PROFILES	Main 10 Main 10 4:2:2 Main still picture
LEVEL	4.0-6.2
RESOLUTION	3840x2160 (UHD) 1920x1080 (FHD/HD) 1280x720 720x480, 720x576
BIT DEPTH	8/10 bits
FRAME RATE	60p/i, 59.94p/i, 30p, 29.97p, 23.97p 50p/i, 25p, 24p (future)
RATE CONTROL	CBR, VBR (future), capped VBR (future)
GOP CONTROL	Support
ASPECT RATIO	Automatic Manual (future) Letterbox/cutting (future)
LATENCY	0.5s (low latency mode, future) 1.0s 3.0s (default)
HDR	HDR 10 (future)
AUDIO ENCODING	
AUDIO CHANNELS	Up to 4 stereo pairs per Service
AUDIO PROFILE	MPEG-1 layer II Dolby digital (AC-3) Dolby digital plus (E-AC3) AAC (LC/HE/HE v2) Dolby digital 5.1
AUDIO BIT-RATE	MPEG-1 layer II: 64-384Kbps AC3: 32-384Kbps E-AC3: 32-384Kbps AAC: 32-384Kbps Max. 504Kbps at 5.1 mode (future)
AUDIO MODE	Stereo (2.0, including downmix), 5.1 (future)
AUDIO SAMPLING RATE	48KHz
AUDIO VOLUME LEVELING	Support
OTHERS	
CLOSED CAPTION	Future

** The images and/or technical specifications are subject to change without previous notice.*

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