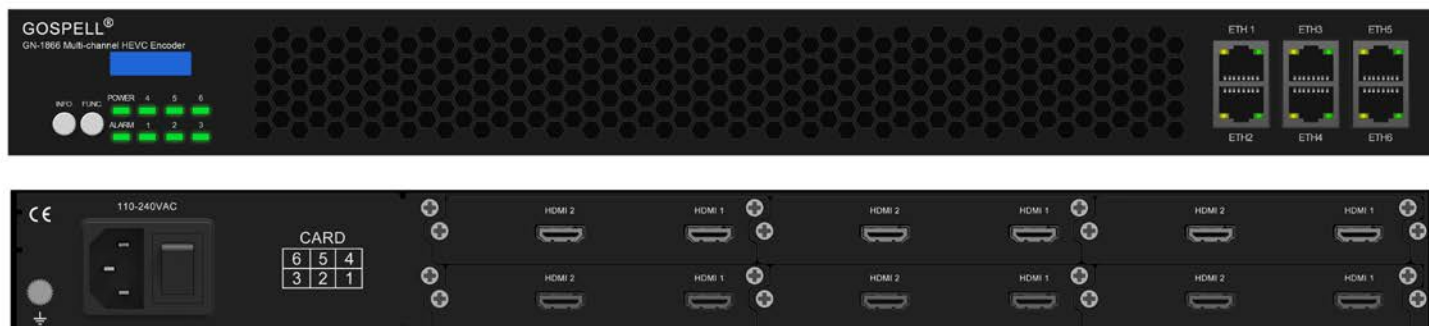


GN-1866

Multi-Channel HEVC Encoder



Product Overview

The GN-1866 is a dual-channel H.265 / H.264 high-definition encoder developed on the HiSilicon Hi3519V101 high-definition encoding chip. The single-board card can accomplish up to two high-definition and low-bit-rate audio and video coding functions, Each sub-board supports 2 channels of audio and video coding. The encoded audio and video ES is packetized into TS streams and output as UDP through 1 IP channel. In device management, it supports Web network management and supports online upgrade of control programs.

As a source coding device in DTV system, the device can receive the audio and video signals that the signal source outputs through HDMI. IP output supports multicast / unicast, SPTS encoded TS stream output, the final transmission to the terminal box to receive.

GN-1866 supports Web browser for local and remote management and maintenance, which can greatly reduce the management time.

Main Features

- 1RU modular design, supporting up to six pluggable encoding modules
- Supports single power supply or dual power supplies (optional)
- Supports up to 12 encoding channel in 1RU
- Supports HDMI input options
- MPEG-1 Layer II audio encoding
- MPEG TS re-multiplexing, PCR and PSI/SI processing
- MPEG TS-over-UDP/RTP output, supporting SPTS mode
- Supports VBR/CBR video encoding
- Up to 10Mbps of video encoding rate for each channel
- Supported video encoding resolutions: 1080P, 720P , 480P,576P
- Web management for remote management and maintenance

Technical Specifications

Chassis

Expansion Slot	6 x Pluggable Encoding Module Slot
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Encoding Module

Digital Video & Audio Input Option

HDMI Input	12 x HDMI 1.3
	Type A receptacle
	S/PDIF(IEC90658)

IP Output

Number of IP Output	1 x 100/1000 Base-T Ethernet(RJ-45)
MPEG TS Format	7 x 188Byte
IP Encapsulation	MPEG TS-over-UDP/RTP
MPEG TS Mode	SPTS
Addressing	Unicast, Multicast (IGMPv1, v2, v3)

Video Encoding

Encoding Formats	H.264(AVC)
	H.265(HEVC)
	HD: 1920 x 1080p@60/59.94/50fps 1280 x 720p@60/59.94/50fps 1920*1080/1280*720/720*480/720*576
Encoding Rate Mode	CBR, VBR
Video Encoding Rate	1 to 10Mbps per program

Audio Encoding

Encoding Standards	MPEG-1 Layer 2
Operation Mode	Stereo
Sample Rate	48 kHz
Audio Encoding Rate	MPEG-1 Layer II: 64/96/128/192/256/384 kbps

Network Management

Interface	1 x 10/100 Base-T Ethernet
Connector	RJ-45

Management	Web management
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Miscellaneous

Front Panel	0.91" OLED with 2xControl Button for information display and settings
	8 x Dual color LED, for status indications of power, cards inserted, working and Alarm
Rear Panel	1 x 3-Pin Receptacle(AC Input)
	1 x Power switch, 2 x Power switch (optional)

Power Supply

Input Voltage	110 - 240 VAC, 50/60Hz
Power Consumption	Less than 200W (Maximum)

Environmental

Operating Temperature	5°C to 45°C (41°F to 113°F)
Storage Temperature	-30 to 70°C (-22°F to 158°F)
Operating Humidity	10%~90%, non-condensing

Mechanical

Product Dimensions (W x H x D)	483mm x 44.5mm x 450mm 19" x 1.73" (1 RU) x 17.7"
Product Weight	Approx. 6Kg (13.2 lbs)

Rear Panel View -Dual power Supply (optional)



GN-1866 Rear Panel

For More Information

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