

CLR-HVE-H264

H.264 HDMI Video Streaming Encoder for IPTV Broadcasting



Overview

CLR-HVE-H264 is an H.264 HDMI video encoder which is the latest professional RTMP / UDP HD audio & video HDMI encoder device with improved functionalities for IPTV systems.

It not only supports H.264 encoding, dual-streaming data, but also equips with 1-channel HDMI input which is supporting MPEG-4 AVC / H264 high profile code format & main profile code format.

High integration and cost-effective design makes the device widely used in a variety of digital distribution systems such as CATV digital head-end, Satellite and digital TV etc., Additionally, it also supports VLC decode.

Area of usage

- IPTV
- Digital Signal
- Video conference systems
- Replacing HD video capture card
- Hotel TV system
- Live broadcasting
- Education/Campus broadcasting
- Recording systems
- Security monitoring system
- NVR (Network Video Recorder)

Application Diagram



Features

- Supports H.264 Baseline Profile / H.264 Main Profile / H.264 High Profile
- Support MJPEG/JPEG Baseline
- Audio coding support MPEG1 Audio Layer 2
- CBR/VBR/ABR code rate controlling , 16kbit/s~40Mbit/s
- Supports Network interface full-duplex mode 1000M
- Supports one channel HDMI input, also supports VGA input via HDMI converter
- Supports up to 720P, 1080P HD video input and output up to 1080P 60 fps
- Able to adjust images settings
- Supports HDCP protocol and HD blue-ray
- Supports protocol HTTP, UTP, RTSP, RTMP, ONVIF
- Clean WEB dashboard, Chinese and English language are optional
- Able to operate LAN NET remotely in dashboard
- Management in WEB dashboard with necessary permissions set
- Supports the double streaming output
- The main stream and the second stream can be transferred by different protocols
- Able to set streaming resolution
- MP3/AAC is optional for audio format
- Supports switching between mono and stereo for audio output
- Supports GOP frame rate settings
- Able to add water marks on the streaming video by X Y coordinating and text box
- Supports inserting 3 pictures or logo in the web control panel
- Supports one key reset
- Supports decoding for TV box
- Energy saving
- Supports restart by itself once crashed
- Stable 3U quality chassis, can switch automatically between main power supply and standby power supply.

Specifications

HDMI Input

Video	- 1 channel HDMI input, supports HDCP
Input HDMI Resolution	- 1920x1080P/1080i/720P @50/60Hz
Encoding	- H.264/AVC High Profile Level 4.0 (HD)
Data Rate	- 0.8Mbps~12Mbps
Data Rate control	- CBR/VBR
GOP (Group of Pictures) Type	- Adjustable
Video pre-processing	- De-interlacing, Noise Reducing and Sharpening

Audio

Encoding Audio format	- AAC, MP3
Sampling rate	- Adaptive and output sampling rate is optional
Bit-rate	- 32K, 44.1K, 48K, 64K, 96K, 128K, 160K, 192K
Sampling accuracy	- 24 bit
Audio Data-rate	- 64Kb/s~384Kb/s

System

RJ45	- 1000M interface
Program streaming	- HTTP, UTP, RTSP, RTMP, ONVIF protocol
Control panel	- WEB panel
Upgrade	- Done by uploading files to dashboard

Environmental specs

Dimension (W x L x H)	- 170*130*30mm (single unit) 230mm× 132.5mm× 350mm (3U structure)
Chassis for multiple channels	- 3U structure, supports 16 channels of Encoding boards
Gross weight	- 0.65KG/pcs for single units; 10KG/unit for Chassis with 16 channels
Working Temperature	- 0~45°C
Input Voltage	- DC 12V for single unit, AC 220V±10%@50/60Hz for Chassis
Power Consumption	- 5W per unit 80W per chassis

Ordering Information

CLR-HVE-264 H.264 HDMI Video Encoder for IPTV