KILOVIEW®

KILOVIEW® G2

HDMI WIFI Video Encoder

Ethernet and external USB 4G-LTE Dongle.

Built-in WIFI,2.4G/5.8G dual-band, IEEE 802.11 a/b/g/n.

20-50 concurrent users can access simultaneously.

Product overview

KILOVIEW® G2 is a professional HD HDMI H.264 video encoder. Small size and ultra-low consumption design! U2 supports HDMI 1.4 standard compatible signal input, and HDMI looping. Input HDMI signal through preceding image processor for image enhancement, then encoding by SOC processor for creating H.264 video encode featured with high performance and low bit rate.

G2 supports unbind audio from HDMI signal, also input audio from Analog Line-in for AAC (MPEG4-Audio) stereo audio encoding or G.711 audio encoding.

G2 allows you to use Web interface to manage device. Easy operation and multi-language supported for worldwide users.

Features

◉ High integration, portable, low consumption, high performance

G2, small size of 125*89*28 mm, integrates FPGA, video co-processor and video encoding chip. Built-in dual-band (2.4G/5.8G) WI-FI model and supports 10/100M self-adaptive Ethernet interface. G2 can support 1080p60 Full HD video encoding, meanwhile enabling up to 960x540@60Hz sub-stream encoding. Under typical case, overall power consumption is <=4W.

◉ Low bit rate assuring nice image and quality audio

G2 adopts VLB (Very Low Bit Rate) H.264 video encoding technology, bonding with preceding video processor to do video dynamic noise reduction, image enhancement, etc., generally, 1Mbps@720p, 1.5Mbps@1080p could be gotten good video encoding quality, which meet needs of low bit rate and quality image under internet applications.

◉ Support Wi-Fi and 4G-LTE

G2 has built-in Wi-Fi, supporting USB extension and various kinds of network accesses. Wi-Fi is 2.4G/5.8G dual-band. 4G USB Dongle is compatible with global main devices and various 3G/4G modes. It supports multi 4G-LTE Dongle bonding communication.

◉ Powerful streaming media protocols supported and full service function

G2 built in SUNSHINE streaming media engine, fully support RTP/RTSP/RTMP/HLS/TS. Through protocols like RTMP/TS and other, it could push live video to many global live video platform/CDN. G2 itself is light-weight streaming media server, which can allow 20-50 concurrent users to access simultaneously.

G2 supports Onvif 1.1/2.0 that can be easily connected to secure safety system/NVR system.

◉ Easy operation and professional quality.

G2 allows you to use Web interface to manage device. Using and setting are very easy! G2 HDMI encoder is widely used in broadcast and TV, interactive media, medical, network education, secure safety and other fields, professional and stable.

Differentiation of the Kiloview encoder product				
U1	U2	G1	G2	M2
Signal input: HD-SDI	Signal input: HDMI	Signal input: HD-SDI	Signal input: HDMI	Signal input: HDMI or VGA.
Formats: 1080p, 720p;		Formats: 1080p, 1080i, 720p;		Formats:1080p,1080i,720p;
Up to 25 Mbits/s		Up to 25 Mbits/s		Up to 25 Mbits/s
WiFi, Ethernet		WiFi, Ethernet, USB 4G-LTE		Ethernet
× Micro SD card recording		Micro SD card recording		Micro SD card recording
RTP/RTSP,RTMP,HLS,TS		RTP/RTSP,RTMP,HLS,TS		RTP/RTSP,RTMP,HLS,TS

Other features

- ✓ Supported global live video platforms (tested): YouTube, UStream, Twitch and so on.;
- ✓ Supported streaming media server platforms/CDN system (tested): Wowza, FMS, RED5, SRS, etc.;
- ✓ Local storage and recording based on Micro SD/TF card and/or USB Storage;
- ✓ Support image rotation, cutting, gray scale and other special image processing;
- ✓ Support character /image overlay;
- ✓ Support quick function customization based on customers' needs (Please contact salesman and factory technical support);
- ✓ Two-way voice intercom function (based on factory provided solutions or for customization according to applications requirements).

Main parameters

Interface		
	Video input	1*BNC SDI
	Video looping out	1*BNC SDI
	Analog video input	1*3.5mm
	Analog video output	1*3.5mm
Interface	Wired network	1*RJ-45, 10/100M self-adaptive Ethernet
	Wi-Fi	Built-in model, external dual antenna
	USB	1*USB 2.0 Type-A 1*USB 2.0 Mini-USB
	Micro SD	1*Micro SD/TF Card

Network support		
	wired/Ethernet	Built-in support
Network support	Wi-Fi	Built-in, IEEE 802.11 a/b/g/n
		2.4G/5.8G dual-band
	4G-LTE	Support through USB extend Dongle

Signal and formats		
	HDMI	HDMI 1.4, downward compatibility
Signal and formats	Supported video formats	1080p23.98/24/25/29.97/30 1080p50/59.94/60 1080i50/59.94/60 720p23.98/24/25/29.97/30 720p50/59.94/60 and resolutions ≤1920x1200
	Audio	HDMI unbind audio (stereo) Analog Line-in/Line-out (stereo)

Encoding		
	Video encoding	H.264/AVCHigh profile (up to level 5.1), compatible with Main profile and Baseline
	Audio encoding	AAC/MPEG4-Audio, G.711(u-Law/a-Law) [other algorithm can be extended]
Encoding	Encoding delay	≤67ms
	Video encoding resolution	256Kbps ~ 25Mbps adjustable
	Audio encoding resolution	32Kbps ~ 512Kbps : AAC 64Kbps : G.711

Transmission protocols and Management protocols		
	Transmission protocols	RTP / RTSP (compatible RTP over RTSP, RTSP HTTP Tunnel and RTSP Multicast) RTMP pushing, RTMP service, TS over UDP, HLS
Transmission protocols and Management protocols	Private protocols	KMP (KILOVIEW Media Protocol)
	control/management protocol	Onvif 1.1/2.0 KCP (KILOVIEW Control Protocol) WindTalk compatible with (private) protocols
	Management protocol	HTTP

Management ways		
	Management interface	App for Android Web
Management ways	Remote management	Support
	Online firmware updating	Support

Working environment		
	Power	DC 12V 1A
Working environment	Operating temperature	-4 to 140° F / -20 to 60° C
	Relative humidity	20 ~90%RH (un condensation)
	Power consumption	4W Max (exclude 4G-LTE USB Dongle)

Size and accessories		
	Size	4.9 x 3.5 x 1.125"/ 125 x 89 x 28 mm
Size and accessories	Weight	12.7oz / 360g
	Wi-Fi antenna	2*5db 2.4G/5.8G dual-band
	Power adapter	External DC 12V 1A adapter

Product appearance

89MM
28MM
125MM

89M
28MM
125MM