LINK-MI LM-ECG2

HD/3G-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

LM-ECG2 is a professional HD/3G-HDMI H.264 video encoder. Small size and ultra-low consumption design! LM-ECG2 comes in 1.485G HD-HDMI, 3G-HDMI input, and HDMI looping out. 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.

LM-ECG2 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.

LM-ECG2 allows you to use phone APP by USB to connect device for management and preview video or WEB management. Easy operation and multi-languages supported for worldwide users.

• High integration, portable, low consumption, high performance

LM-ECG2, small size of 128mm*89mm*28mm, 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. LM-ECG2 can support 1080p60 Full HD video encoding, meanwhile open up to 960x540@60Hz sub-stream encoding. Under typical case, overall power consumption is <=3W.

• Low bit rate assuring nice image and quality audio

LM-ECG2 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 for low bit rate and quality image under internet applications.

• Support Wi-Fi and 4G-LTE

LM-ECG2 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

LM-ECG2 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. LM-ECG2 itself is light-weight streaming media server, which can allow 20-50 concurrent users to access simultaneously.

LM-ECG2 supports Onvif 1.1/2.0 that can be easily connecting to secure safety system/NVR system.

• Easy operation and professional quality.

LM-ECG2 allows you to use App and Web interface to manage device. Using and setting are very easy. It is widely used in broadcast TV, interactive media, medical, network education, secure safety and so on with professional quality and stability.

Other features

➢ Supported global live video platform (tested): YouTube, UStream, Twitch and so on.;

➢ Supported streaming media server platform/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 HDMI		Encoding delay	≤67ms
	Video looping out	1*BNC HDMI		Video encoding resolution	256Kbps ~ 25Mbps adjustable
	Analog video input	1*3.5mm		Audio encoding resolution	32Kbps ~ 512Kbps : AAC
	Analog video output	1*3.5mm			64Kbps : G.711
	Wired network	1*RJ-45, 10/100M self-adaptive Ethernet	Transmission protocols and Management protocols	Transmission protocols	RTP / RTSP (compatible RTP over RTSP, RTSP HTTP Tunnel and RTSP Multicast)
	Wi-Fi	Built-in model, external dual antenna			RTMP pushing, RTMP service, TS over UDP, HLS
	USB	1*USB 2.0 Type-A 1*USB 2.0 Mini-USB		Private protocols	KMP (LINK-MI Media Protocol)
	Micro SD	1*Micro SD/TF Card		control/management protocol	Onvif 1.1/2.0
Network support	wired/Ethernet	Built-in support			KCP (LINK-MI Control Protocol)
	Wi-Fi	Built-in, IEEE 802.11 a/b/g/n 2.4G/5.8G dual-band			WindTalk compatible with （private）protocols
	4G-LTE	Support through USB extend Dongle		Management protocol	HTTP
Signal and formats	HDMI signal standard	0.8Vp-p	Management ways	Management interface	Web
	HDMI impedance	75 Ohm		Remote management	support
	HDMI coupling way	AC		Online firmware updating	Support
	HDMI signal formats	HD-HDMI(1.485Gbps) 3G-HDMI(2.97Gbps)			
	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	Working environment	Power	DC 12V 1A
				Operating temperature	-20℃ ~ 80℃
				Relative humidity	20 ~90%RH(un condensation)
	Audio	HDMI unbind audio (stereo) Analog Line-in/Line-out (stereo)		Power consumption	4W Max (exclude 4G-LTE USB Dongle)
Encoding	Video encoding	H.264/AVCHigh profile (up to level 5.1), compatible with Main profile and Baseline	Size and accessories	Size	128mm * 89mm * 28mm
				Weight	220g
	Audio encoding	AAC/MPEG4-Audio, G.711(u-Law/a-Law) [other algorithm can be extended]		Wi-Fi antenna	2*5db 2.4G/5.8G dual-band
				Power adapter	External DC 12V 1A adapter

2.8 cm

12.8 cm

8.9 cm

2.8 cm

12.8 cm