K10 Mini

SDI+CVBS Code Plate

H265/H264

User's Manual

V1.0

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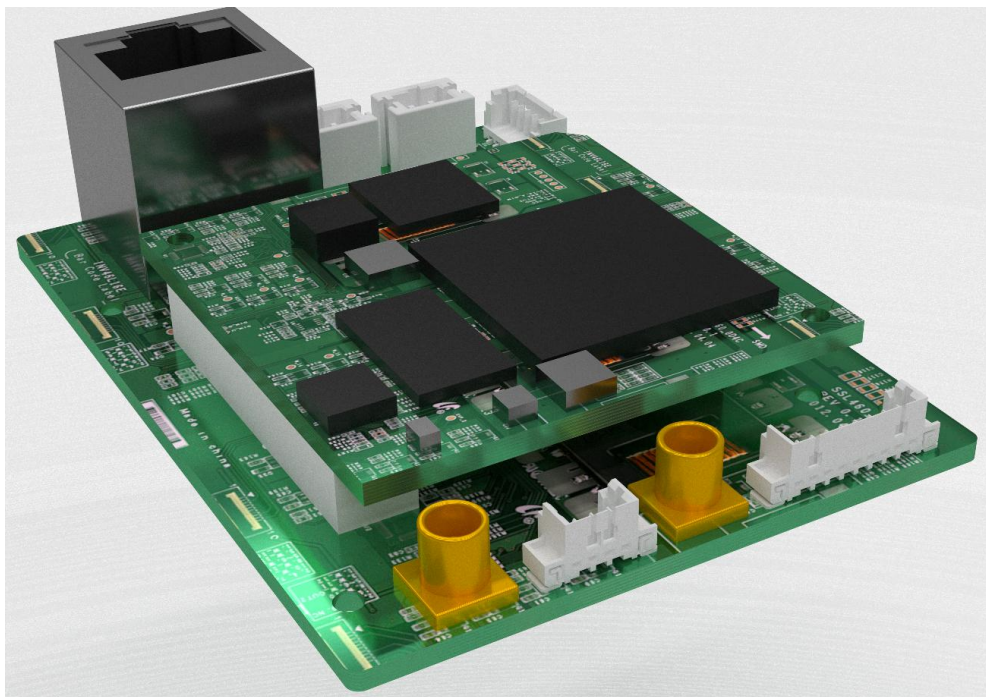
Introduction:

K10 SDI+CVBS mini code plate is a professional SDI and CVBS signal video coding product. It supports that 1 SDI signal and 1 CVBS signal asynchronously work, The output format of encoding could be double code stream H.265/H.264, audio MP3/AAC. The coding rate is adjustable, and the picture quality is controllable. It supports HTTP/RTSP/RTMP/SRT/RTP/UDP/HLS transfer agreements. It is easy to use, without hardware compatibility issues.

Performance:

◆Embedded hardware coding

◆Supported resolution: 1920x1080p/1280x720p/720*576i/640*480i, etc. (customizable)

◆Coding standard: BASELINE PROFILE / MAIN PROFILE / HIGH PROFILE

◆It supports one computer and multiple devices to display at the same time

◆It supports intelligent encoding mode, and also supports ultra-low-latency video transmission (delay is about 200ms)

◆The network interface adopts 1000M full-duplex mode

◆1 channel SDI signal input support (LEVEL A mode and LEVEL B mode. 3G SDI, HD SDI, SD SDI is supported),

◆Support RTSP/RTMP/HTTP/RTP/UDP/SRT/HLS/unicast, multicast and other protocols (RTMP supports adding user and password functions), support DHCP protocol, ONVIF protocol, GB28181 protocol

◆Compatible with streaming media servers such as Wowza/FMS/RED5

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◆It supports multi-protocol and multi-stream functions such as master and vice. Main and secondary streams 264, 265 are selected respectively. The main stream and sub stream can be transmitted using different network protocols.

◆Bit rate control CBR/VBR 16KBIT/S~20MBIT/S

◆Video Package: TS stream

◆It supports streaming resolution custom output settings.

◆Transmission method: TCP, UDP, 1000M (RJ45 duplex network port)

◆It supports code stream adding watermark function (OSD), XY axis. Font can be set.

◆It can access WEB English pages, and can add minor languages according to customer needs

◆It supports DHCP to obtain IP automatically, and also supports one-key restore, version upgrade and remote maintenance

◆With low power consumption design, it supports set-top box decoding

Parameter:

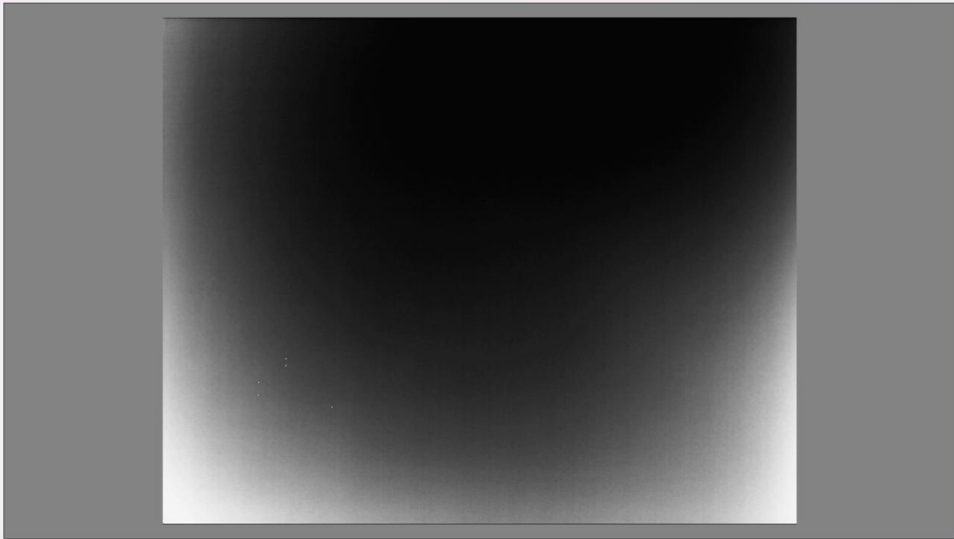| Model	K10 mini code plate	
Input	1 channel SDI signal, 1 channel CVBS signal input (asynchronously work)	
Output	12V DC out，RS422/RS485	
Video	Input resolution	1920x1080p/1280x720p/720*576i/640*480i or other resolutions
	Encoding standard	H.265 / H.264
	Encoding level	H.265 MAIN PROFILE， H.264 BASELINE PROFILE H.264 MAIN PROFILE， H.264 HIGH PROFILE
	Coded size	320*180~1920*1080 (customizable)

	Video bit rate	CBR/VBR bit rate control 16KBIT/S~20MBIT/S
	Video frame rate	5~60 frames
	OSD	Text, picture
Audio	Input selection	1 channel audio and video interface (support audio gain)
	Audio encoding	AAC/MP3
	Audio code rate	24Kb/s~320Kb/s
	Sampling rate	Default
IP Output		1 RJ45 100M adaptive Ethernet port, TS standard stream, ONVIF protocol
System	Network protocol	Support HTTP, RTSP, RTMP, UDP, RTP, multicast, unicast, HLS, ONVIF protocol, GB28181 protocol, FTP
	Configuration management	Support IE configuration, remote upgrade
Serial port		RS422/485, etc. (can externally control infrared thermal imager, infrared lens, PTZ, etc.)
General	Power	12V~2A
	Power Consumptio	4W

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Dimensions	67mm x 50mm x 20mm (LxWxH)
Operating temperature	-20℃+ 60℃
Operating humidity	<90%, non-condensing
Weight	38g
Our company reserves the right to adjust product parameters. If you have any questions, please feel free to contact us.	

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Version record

Version	Date	Illustrate
V1.0	2022.11.30	