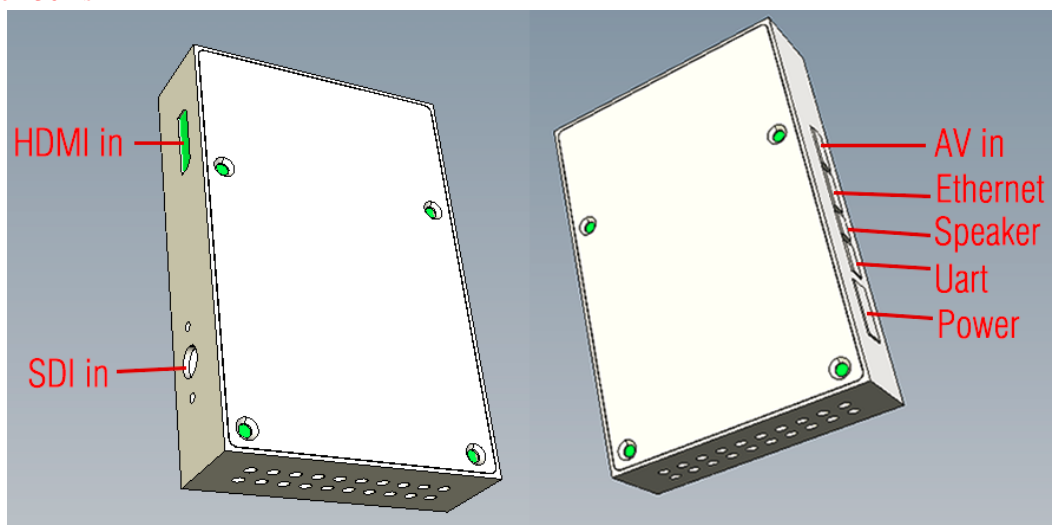


SE10 Video Encoder Device

- Low latency H.265/H.264 video encoder device, full HD resolution, maximum 1080P60
- Audio codec with audio input and output
- Mini HDMI/SDI/AHD/AV video input, Ethernet RTSP/TS stream output, TCP/UDP protocol
- Web UI for management
- Optional: HDMI+AV/SDI+AHD input and encoding at the same time
- Optional: 4K video input and 4K encoder, maximum resolution 3840*2160@30fps
- When paired with Sihid SHD5 decoder module, the H.265 video latency is about 200ms to 250ms
- When paired with Sihid SHD4 decoder module and in the lowest H.264 mode, the video latency is about 50ms to 130ms



SE10 video encoder device implements H.265/H.264 video encoding and audio codec, the stream will output via Ethernet after encoding. One channel uart data can also be packed with the stream and output to the Ethernet. The video encoding bitrates is controlled via web UI. The SE10 device is in compact size and suitable for real time live video monitor via wireless link or Ethernet. We have two models:

- SE10-HDMI, Mini HDMI/AV video input
- SE10-SDI, SDI/AHD video input

Specification

Video and audio input of SE10-HDMI



Mini HDMI connector for HD video input, 4PIN ZH1.5mm connector for AV input. SE10-HDMI supports one channel video input and encoding with default firmware. The system will auto detect the input video after system start-up. When HDMI video and AV video are connected in, the HDMI input or

the specified input (via Web UI) is priority. SE10-HDMI can also support both HDMI input and AV input and encoding two channel videos at the same time with specified firmware.

Support HDMI video input formats: 1080@60P, 1080@50P, 1080@30P, 1080@25P, 1080@24P, 1080@60I, 1080@ 50I, 1080@30I, 720@60P, 720@50P, 720@30P,

Support AV video input formats: 720*480 60I(NTSC), 720*576 50I(PAL)

Video encoding: H.265/H.264, setup via Web UI; Bitrates adjustable; Supports proprietary H.264 video compression only used p-frames for lowest latency(the encoding and decoding latency is about 50ms to 130ms when works with Sihid SHD4 decoder module) ; When paired with Sihid SHD5 decoder module, the H.265 encoding/decoding video latency is about 200ms to 250ms.

Audio input: embedded HDMI or analog audio

Audio coding: AAC, 16bit, stereo, 32Kbps

4K hardware version of SE10-HDMI is also available, this version supports 4K video input and encoding, the maximum input is 3840*2160@30fps.

Video and audio input of SE10-SDI



SMA female connector for SDI HD video input, 4PIN ZH1.5mm connector for AHD input. The AHD input is AV compatible. SE10-SDI supports one channel video input and encoding with default firmware. The system will auto detect the input video after system start-up. When SDI video and AHD video are connected in, the SDI input or the specified input (via Web UI) is priority. SE10-SDI can also support both SDI input and AHD input and encoding two channel videos at the same time with specified firmware.

Support SDI video input formats: 1080@60P, 1080@50P, 1080@30P, 1080@25P, 1080@24P, 1080@60I, 1080@ 50I, 1080@30I, 720@60P, 720@50P, 720@30P,

Support AHD video input formats: 1080P30, 1080P25,

Support AV video input formats: 720*480 60I(NTSC), 720*576 50I(PAL)

Video encoding: H.265/H.264, setup via Web UI; Bitrates adjustable; Supports proprietary H.264 video compression only used p-frames for lowest latency(the encoding and decoding latency is about 80ms to 150ms when works with Sihid SHD4 decoder module) ; When paired with Sihid SHD5 decoder module, the H.265 encoding/decoding video latency is about 200ms to 250ms.

Audio input: embedded SDI or analog audio

Audio coding: AAC, 16bit, stereo, 32Kbps

Data uart

3PIN ZH1.5mm connector, RS232 by default (can be modified to TTL3.3V before ship out). This uart data will be packed with the video stream and output to the Ethernet. When SE10 module works paired with Sihid decoder module (SHD5, SHD4, SHD3, SHD1, etc.) and Ethernet linker (wireless or wire), the data to this uart will be transferred to the data uart of Sihid decoder module.

SPK interface

2PIN ZH1.5mm connector. When SE10 paired with SiHid video decoder module, the SE10 system is capable to decode the audio stream from SiHid video decoder module which received via Ethernet port with wire or wireless connection, and the audio will output to a speaker. This interface is used for connecting the speaker. It can drive 1W speaker directly.

Ethernet interface

4PIN ZH1.5mm connector, RTSP/TS stream output, TCP/UDP protocol, setup by Web UI.

Power in

XT30PW-M connector
Input range: 7~24VDC
Power consumption: <220mA@12V

Monitoring and control

Comprehensive setup via Web UI

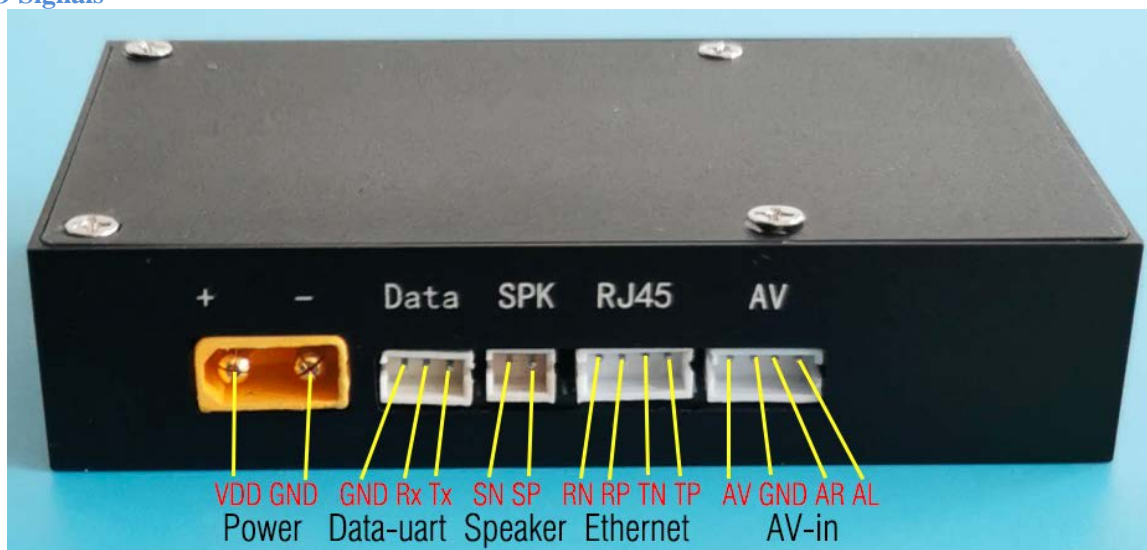
Temperature range

Full specification: 0° to +70°C Ambient (Optional: -40° to +85°C)
Storage: -40° to +85°C

Physical Characteristics

Dimensions: 72.5*48*15.4mm (not including connectors out of the case)
Weight: 53g

I/O Signals



SE10 size(mm) and photos



