



iW-ULL-Streamer

ULL Streamer and Recorder



iWave's ULL Streamer meets the real-world challenges and dispense a streaming solution for ultra-low Latency streaming. The applications of the device are for live video streaming and embedded vision. It is capable of compressing and decompressing video streams simultaneously at resolutions of up to 3840 x 2160 pixels at 60frames per second (4K UHD at 60 Hz).

The product provides 12G-SDI/HDMI2.0 input/output. It does 12G-SDI/HDMI 2.0 input video encode and live steam or record in M.2 SSD/USB storage, capture the stream, decode and live display. The video streams are secured by encryption and decryption features provided in the ULL streamer. AES encryption method is used to scramble video content for secure broadcasting

iW-ULL-Streamer HIGHLIGHTS

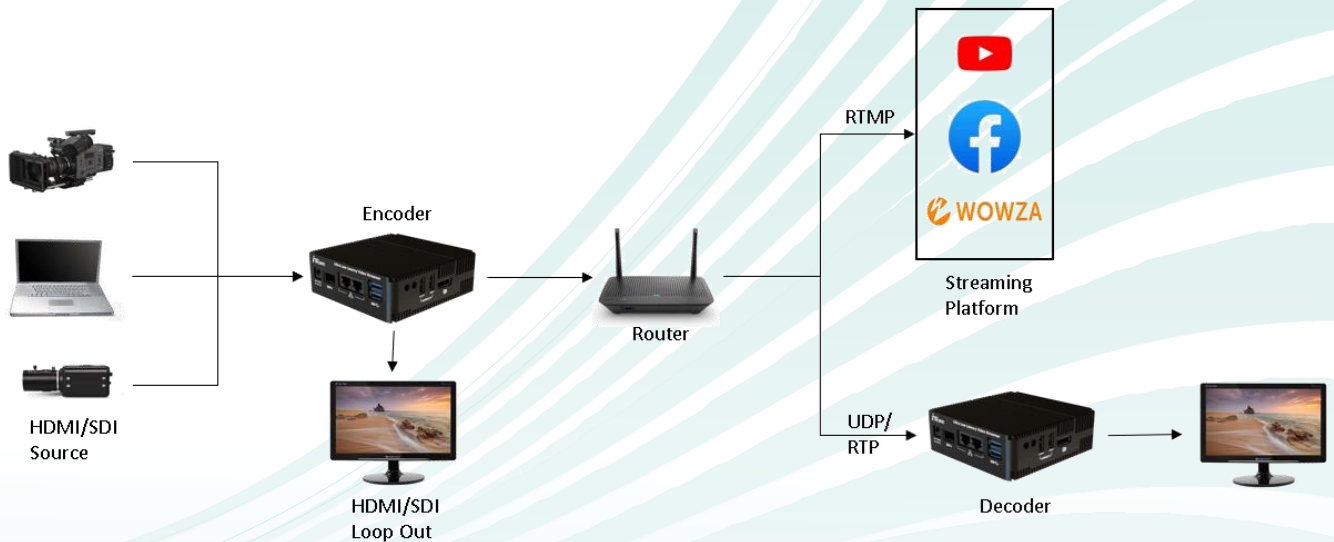
HEVC(H.265)/AVC(H.264) Encoder and Decoder
12G-SDI/HDMI2.0 Input/Loop out
2-channel stereo audio from 12G-SDI/HDMI2.0
UDP, RTMP protocol
Up to 4k@60 resolution input and output
Simultaneous encoding and decoding with a max aggregated
Recording and playback prerecorded video
Capture, encode and transmitting side latency 11ms
Receive, decode and display latency 9ms
Collective point to point latency below 100ms
video encryption and decryption

SPECIFICATIONS

Hardware
Video Interfaces
Input interfaces: 12G-SDI/HDMI2.0
Output interfaces: 12G-SDI/HDMI2.0/DP1.2/Loop out
Connectivity
Gigabit Ethernet x2
Storage
USB3.0 x2
M.2 SSD x1
Power Input and Operating Temperature
12V, 5A AC Adaptor
0°C to 55°C
Enclosure Dimension and Form Factor
Enclosure Form Factor: 109mm x 109mm x 41mm
Cooling Method: Passive Heat Sink Enclosure
Software
Resolution Support
12G-SDI/HDMI2.0 up to 3840x2160p 60

DP1.2 up to 3840x2160p 30
Encode/Decode
H.264/H.265
Audio
12G-SDI/HDMI2.0 Built-in Audio
Protocol support
UDP, RTMP
Latency **
Encoder latency – 11 ms
Decoder latency – 9 ms
Glass to Glass [both encoder & decoder] latency – 66 ms
Video Encryption and Decryption
Encryption and decryption to secure video streaming
Bitrate and profile configuration
Rescaling input resolution
Synchronized Audio and video
Control & Monitoring through web browser

ULL Streamer and Recorder connection/communication



iWave Systems Technologies, established in 1999, focuses on Product Engineering Services involving Embedded Hardware, Software & FPGA. The company designs and develops cutting edge products and solutions. iWave has been an innovator in the development of highly integrated, high performance, low power and low cost System On Modules and Development Platforms.

iWave System has won the confidence of its customers over the years by being a reliable partner in developing innovative products. Our engineers combine outstanding System design experience to deliver Quality Solutions. iWave specializes across Industrial, Automotive and Medical domains. We support our customers by being time efficient, which in turn helps our customers accelerate time to market their products. iWave is a Windows embedded Silver partner and a winner of the Partner Excellence Award.

**Optional items not included in the standard deliverables.*

Note: iWave reserves the right to change these specifications without notice as part of iWave continuous effort to meet the best in breed specification. The registered trademarks are proprietary of their respective owners.

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The device can be ordered online from the [iWave Website](http://www.iwave.com)

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