



The ITT-VC1001 SDI HD Encoder NDI SRT Encoder is a highly embedded hardware for FHD HDMI over IP required scenario like IPTV, Video streaming, live broadcasting, tele-education, telemedicine etc, SRT transmission, Point to point transmission.

The encoder is based on the deeply embedded PCB board, it allows receiving the FHD video from SDI sources (3G/ HD/ SD), and line in audio from 3.5mm composite Jack(active sources required), then send the streams over IP protocol like RTSP over UDP & TCP/ RTMP/ HTTP/ UDP Unicast Multicast/ ONVIF/ RTP/ HLS/ RTMPS/ SRT/ NDI, Haiwei proprietary protocol.

With high performance processor and years of experience in video processing industry, the encoders are available to receive the signal from HDMI sources (up to 1080 60, blue ray supported, optional HDCP); then stably stream (push/ pull, support 1080P (default@30FPS) out) to video platforms like YouTube, facebook, twitch, wowza, vmix, OBS....

Features:

- Embedded hardware encoding
- Support H.264 BASELINE PROFILE / MAIN PROFILE / HIGH PROFILE and HEVC Main profile
- Support multiple devices display on a computer at the same time
- Encoding levels: Level 1, Level 2, Level 3, Level 4, Level 5 (The higher of the level, the larger code flow fluctuation ratio.)
- Rate Control: CBR / VBR 16KBIT / S ~ 12MBIT / S
- Support full-duplex gigabit Network
- Support up to 720P, HD 1080P video input
- Compatible with Wowza/FMS/RED5 streaming media server etc, work in with streaming media server to push the streaming , to achieve a live streaming
- Support Main TS stream and the sub TS stream use in different network protocols for transmission
- Video packaging: A mode: FFMPEG, B mode: VLC
- Supports streaming resolution custom output settings
- Transmission: TCP, UDP
- Support streaming add watermark (OSD), XY axis, the font can be set;
- Support WEB access in Chinese/English, passwords changing, WAN remote management (WEB)
- Support DHCP gaining IP automatic ,support One-key recovery, upgrade and remote maintenance
- Image settings: contrast ratio, brightness, tones, saturation, noise detection, sharpness, filtering
- Support build-in or external methods , support left and right sound channel , Support audio gain ,be able to turn volume individually
- Support coding without video signal; Take effect immediately without the necessity to restart the device
- Support one-press recovery for the default configuration

Specification :

Input	1 SDI input, 1 *3.5MM channel audio input	
Output	1 channel IP signal output and 1* main+ 1* sub	
Video	Input resolution	1920x1080p/1920x1080i/1280x720p/720*576i/720*576p /640*480i And other conventional resolution
	Coding standard	H.264/ H.265
	Coding level	H.264 BASELINE PROFILE
		H.264 MAIN PROFILE
		H.264 HIGH PROFILE
	Encoded size	640*360~1920*1080
	Video bit rate	Rate control: CBR/VBR 16KBIT/S~12MBIT/S
	Video frame rate	5-30/ 5-60 (please mention if 50-60 FPS output required)
	OSD	Text, images
Audio	Input selection	1 channel embedded audio hdmi, 1 channel 3.5MM independent audio support audio gain
	Audio coding	AAC/MP3/G711
	Audio bit rate	64Kb/s~384Kb/s
	Sampling rate	32000,44100, 48000etc
IP output	1 RJ45 100M / 1000M adaptive Ethernet port, TS stream standard, dual-stream, ONVIF protocol	
System	Network protocol	Supports HTTP, RTSP, RTMP, UDP, SRT, HLS multicast, unicast, SRT, NDI
	Configuration management	Support IE configuration, remote upgrade
The common use	Power supply	12V~2A
	power consumption	5W
	Size	103mm * 70mm * 25mm(length*width*height)
	Operating temperature	-20°C+ 60°C
	Working humidity	<90%, Non-condensing
	Weight	0.18KG