

ST200 COFDM Wireless Downlink Transmitter

--2.5W(or 1W) HD video COFDM wireless downlink transmitter supporting IP Camera and HDMI(or AV) input

The ST200 wireless digital video transmitter was designed for use with HD or SD cameras, it's a superior miniature wireless video transmitter designed to capture real-time, high-quality video from Point of View Cameras, UAV/UGV/Body Cams/Concealments, and sports cameras. The transmitter features HDMI or AV inputs with COFDM modulation technology and H.264 encoding that complete video audio transmission in high-speed motion and NLOS (none line of sight) conditions with low latency. The ST200 delivers up to 2.5W(or 1W) of power in a small metal case weighing less than 140 grams, providing long range, reliable HD video transmission.

Features:

- COFDM modulation and H.264 video compression;
- Full HD resolution, 1080p/i @60fps;
- Great security by AES encryption;
- Modular design and high integration;
- Stable signal transfer in NLOS and high-speed motion;
- Adjustable working frequency, band width, bitstream rates, RF power, etc;
- Supporting IP camera via Ethernet interface(Please contact with Sihid).



Specification:

IO

HD Video input	Mini HDMI, HDMI type "A" connector
Composite Video input	3.5mm earphopne jack
UART data	3PIN PH1.25mm connector(RS232 or TTL)
UART control	Micro USB connector or 4PIN PH1.25mm connector
Ethernet	4PIN PH1.25mm Connector
Power in	2PIN PH2.54mm phenix Connector
RF output	SMA female

Modulation

Modulation Formats	COFDM(DVB-T)
Carriers	2K
Bandwidth	Configurable from 1MHz to 8MHz, step by 1KHz
FEC	1/2, 2/3, 3/4, 5/6, 7/8
Guard interval	1/32, 1/16, 1/8, 1/4
Constellation	QPSK, 16QAM, 64QAM
Bitrates	0.5Mbps to 31.67Mbps

RF

Frequency Bands	Specify: 300~360MHz 350~400MHz 450~500MHz 520~560MHz 580~620MHz 680~720MHz 820~860MHz Other ranges available from 200~860MHz
Tuning Step size	1KHz
Transmission power	2.5W(34dBm) or 1W(30dBm)

Video and Audio

Video input	HDMI or CVBS, auto-detected after system start-up
Video formats	1080@60P, 1080@50P, 1080@30P, 1080@25P, 1080@24P, 1080@60I, 1080@50I, 1080@30I, 720@60P, 720@50P, 720@30P, 720*480 60I(NTSC), 720*576 50I(PAL)
Video Coding	MPEG-4/H.264 AVC
Audio input	Embedded HDMI or AV audio
Audio Coding	AAC, 16bit, stereo, 32Kbps
Encryption	AES256

ST200 also supports IP camera video capture via Ethernet beside it's normal video input and Transmitted.

Monitoring and control

Comprehensive transmitter setup with Sihid Config Panel or PC or other device via Control UART.

Temperature range

Full specification: 0° to +55°C Ambient

Storage: -40° to +80°C

Physical Characteristics

Weight: 140g

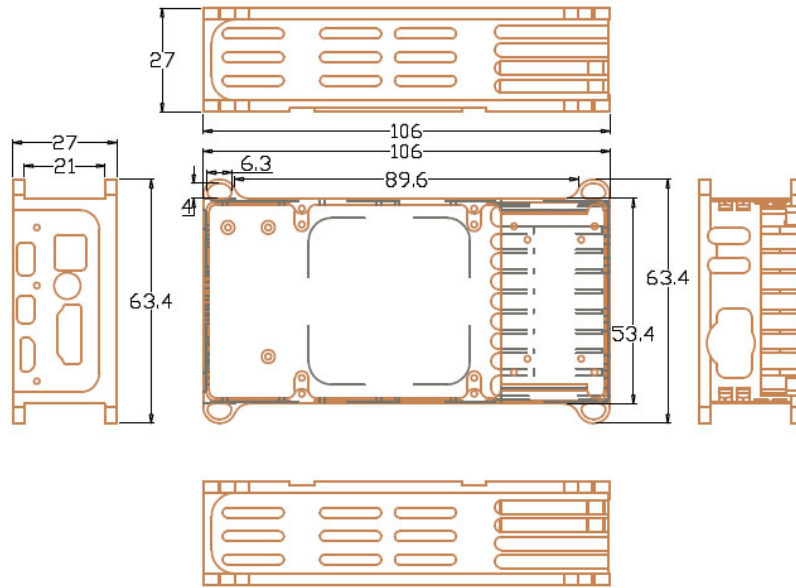
Dimensions: 106x63.4x27mm (not including connectors out of the board)

Power requirements

Input range: 11~13VDC

Power consumption: <2.1A@12V(2.5W Transmission power)

Outline



IO signals

