

5.8GHz Full Duplex Wireless Transceiver for Video and Data Link

- 500mW optimized WiFi compatible transceiver works at 5.8GHz bands
- HD video transmission with H.265 video codec supporting
- Ethernet and uart data link
- Transmit distance: 200~1000 meter(ground-to-ground), 2~10km(UAV-to-ground)



Sihid 5.8GHz wireless digital video transceivers was designed to capture real-time HD video with two way wireless data link. These transceivers feature HD or SD video input/output with optimized WiFi compatible (5.8GHz Mimo) technology and H.265/H.264 codec that complete video audio transmission in high-speed motion with low latency.

Now we have 2 models video transceiver in these series:

- ST580 video transmitter with HDMI/AV/SDI/AHD input
- SR580 video receiver with HDMI and AV output

Features:

- Optimized WiFi compatible transceiver works at 5.8GHz Band
- Total 8 channels
- Max 54Mbps throughput
- RF transmission power: 500mW
- H265/H264 Video codec, full HD resolution 1080p/i @60fps(optional 4K@30fps)
- Supports two way audio
- Supports IP data transmission
- Supports serial data transmission
- Web UI and control uart for management
- AES256 encryption
- Compact size and light weight

ST580 Video Transmitter Specification:



Default ST580

Function	Default feature	Optional feature
Frequency	5180~5320MHz	
RF output	Two SMA female	
Video input	HDMI or CVBS auto-detected after system start-up	<ul style="list-style-type: none"> ● HDMI+CVBS at the same time ● SDI (SMA female) ● AHD (SMA female/two pin)
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)	<ul style="list-style-type: none"> ● 3840*2160@30fps ● AHD 1080P30, 1080P25, 720P30, 720P25
Video encoder	One channel H265/H264, maximum 1080P60	Two channel Maximum 4K
Video input I/O	Mini HDMI, HDMI type "B" connector	
Video latency	200~250ms	
Audio input	Embedded HDMI	<ul style="list-style-type: none"> ● Embedded SDI ● Analog audio input
Audio Coding	AAC, 16bit, stereo, 32Kbps	
Audio output	No	Two pin
Control uart	TTL 3.3V	
Data uart	TTL 3.3V	RS232
Ethernet	RJ45	
Power in	XT30PW-M connector, DC7~24V	
Power Consumption	<5W	
Dimensions	76*54.5*23.5mm	
Case housing	Plastic material (3D print)	aluminum alloy (CNC)
Weight	77.5g	

SR580 Video Receiver Specification:



Function	Default feature	Optional feature
Frequency	5180~5320MHz	
RF output	Two SMA female	
Video output	HDMI and CVBS	Split screen for 4 videos and switch between videos
Video decoding	H2.64/H.265 Maximum 1080P60	Decoding maximum 4 channel videos at the same time; maximum 4k
AV output	4PIN PH2.0mm connector	
Audio output	Embedded HDMI and analog audio	
Audio input	No	Mic in (two pin)
Video latency	200~250ms	
Control uart	TTL 3.3V	
Data uart	TTL 3.3V	RS232
Ethernet	RJ45	
USB host	Video storage via USB disk	
TF card slot	Software upgrading or video storage	
Power Input	XT30PW-M connector, DC7~24V	
Power Consumption	<3.5W	
Case housing	aluminum alloy	
Dimensions	91*83*30mm	
Weight	169g	