

ST5HPT

Description

ST5HPT is a mini HD Video and Data transmission COFDM system for UAV. It develops CABAC (H.264+H.265) coding&decoding technology to achieve Ultra-high resolution(1080P), long distance(air to ground 5km) and low delay(12-25ms) transmission. The system supports two-way(data&image) communication, adjustable video resolution, bit rate output with the TPlayer software. It can realize the soft decoding with low delay. Meanwhile this

SUNTOR series products have small size, light-weight, low consumption, high stability and high sensitivity. They are suitable various environment of different application.



Features

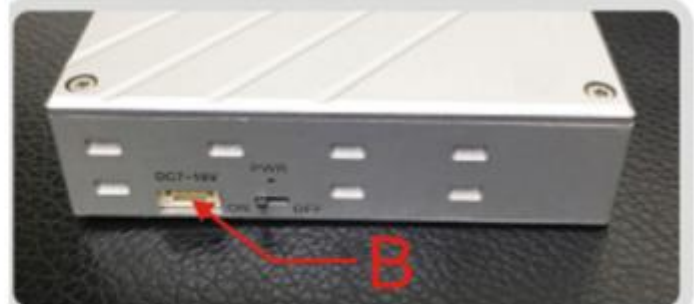
- **Video Input:** HDMI
- **Resolution:** Full HD 1080P/60
- **Distance:** Air to ground 5km
- **Latency:** ≤12-25ms
- **Duplex Data Transmission:** PPM/SBUS/TTL
- **Dimension:** 72*47*19mm
- **Weight:** TX 94g/RX 94G

Frequency	2.4GHZ (2.402-2.478GHz)
Wireless Fault-tolerant	LDPC FEC
RF Transmitted Power	400mW (Air to ground 5km)
Power Consumption	TX: 6Watts
	RX: 5Watts
Frequency Bandwidth	2/4/6/8MHz
Latency	≤12-25ms
Receive Sensitivity	-100dbm ~ -90dbm
Video Color Space	Default 4:2:0 optional: 4:2:2/4:4:4
Antenna	1T1R
Video Input/output Interface	HDMI mini TX/RX, or transform FFC to HDMI-A RX/TX
Video Compressed Format	H.264+H.265
Bitrate	Software adjustment

Encryption	WEP, WPA(PSK), WPA2(PSK), WPA+WPA2 (PSK), AES 125/256
Transmission Distance	Air to ground 5km
Start-up time	< 30s
Two-way function	Support video and duplex data simultaneously
Data	Support SBUS/PPM/TTL
Power supply	DC 7- 18V
Interface	1080P/60 HDMI Mini RX x1
	100Mbps Ethernet to USB / RJ45 on Windows × 1
	S1 TTL bidirectional serial port x1
	Power Input x1
Indicator Light	HDMI input/output Status
	Transmitting and receiving
	Video board working Status
	Power
HDMI	HDMI mini/Flexible Flat Cable(FFC)
Temperature Range	Operating temperature: -40°C ~+ 85°C
	Storage temperature: -55°C ~+ 100°C
Appearance Design	CNC technology/ double aluminum alloy shell with waterproof design
Dimension	72×47×19mm
Weight	Tx: 94g/Rx: 94g



A: 1* Mini HDMI Port on TX & RX



B: DC 7-18V Input



C: 1*TTL Bidirectional Serial Port

D: 1*SMA Antenna Port

F: Working State Indicator



E: 1*100Mbps Ethernet

G: WL Signal Indicator

Package List



Package List:

- 1* Transmitter
- 1* Receiver
- 2* Power Cable
- 2* TTL Cable(TX+RX)
- 1* TTL to USB Cable
- 2* Omni Antenna(TX+RX)
- 2* HDMI Cable(TX+RX)
- 2* Ethernet Cable
- 1* Packing Box



Package Box

