ST30HPT

Description

ST30HPT is a mini HD Video and Duplex data transmission COFDM system for UAV. It develops CABAC (H.264+H.265) coding&decoding technology to achieve Utra-high resolution(1080P), long distance(air to ground 30km) with double tx and rx antennas design and low delay(12-30ms) 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

- Working Temperature: -40℃—+85℃
- Support SBUS/PPM/TTL/232/MAVLINK
- Video: Video sources self-adaptive(Max 1080P/60), Support HDMI Input/output
- Support Video and Duplex Data
- Compatible with different brand flight controller and remote controller
- 100Mbps Ethernet for option
- Matching with our TPlayer software (low latency software decoder) to display video on PC.
- Omni Antenna for TX and RX

Parameters

Frequency	2.4GHZ(2.400-2.482GHz)
Wireless Fault-tolerant	LDPC FEC
RF Transmitted Power	1.5Watts
Power Consumption	TX: 12Watts/RX: 5Watts
Distance	30km
Bandwidth	2/4/6/8Mhz
Video Input/output Interface	On board HDMI mini TX/RX or FFC convert to HDMI-A TX/RX
Bitrate and channel adjustment mode	DIP or SPI2MCU
Antenna	1T1R/ TX: 5db(Omni Antenna)RX: 10db(Omni Antenna)
Video Color Space	Default 4:2:0 optional: 4:2:2/4:4:4
Video Compressed Format	AVC adds H.265 feature TS stream

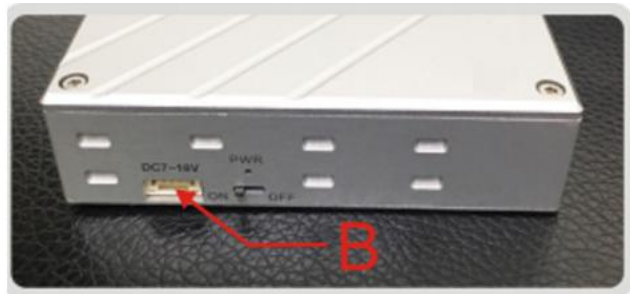| Adjustment mode of bitrate	Software adjustment
Communication Channel Encryption	WEP, WPA(PSK), WPA2(PSK), WPA+WPA2 (PSK), AES 125/256
Transmission Mode	point to point
Start-up time	25s
Latency	15-30ms
Transmission Rate	3-5Mbps
Receive Sensitivity	-100dbm@4Mhz, -95dbm@8Mhz
Two-way function	Support video and duplex data simultaneously
Data	Support SBUS/PPM/TTL/MAVLINK
Interface (same interface on TX & RX)	1. 1080P 60 HDMI Mini RX x1
	2. 100Mbps Ethernet to USB / RJ45 on Windows x2
	3. S1 TTL bidirectional serial port x1
	4. Power Input (DC7-18V) x1
Indicator Light	HDMI input/output indicator light
	Transmitting and receiving indicator light
	Video board indicator light
	Power light
HDMI	HDMI mini/Flexible Flat Cable(FFC)
Appearance Design	CNC technology/double aluminum alloy shell with waterproof design
Power supply	DC 7- 18V (DC 12V advised)
Temperature Range	Operating temperature：-40°C ~+85°C Storage temperature：-55°C ~ +100°C
Dimension	73x48x20mm
Weight	Tx: 148g, Rx: 93g

TX:

RX:

A: 1* Mini HDMI Port on TX & RX

B: DC 7-18V Input

C: 1*TTL 232 Bidirectional Serial Port
D:1*SMA Antenna Port
F: Working Station Indicator

E: 1*100Mbps Ethernet
G: WL Signal Indicator

Package Box