

C50HPT

Description

C50HPT is a mini HD Video and Duplex data transmission COFDM system for UAV. It develops CABAC (H.264+H.265) coding&decoding technology toachieve Utra-high resolution(1080P), long distance(airto ground (40-70km) 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°C~+85°C
- Support SBUS/PPM/TTL/232/485
- Video: Video sources self-adaptive(Max 1080P/60), Support HDMI Input/output
- Support Video and Duplex Data
- Compatible with different brand flight control system and remote controller
- 100Mbps Ethernet for option
- Matching with our TPlayer software (low latency software decoder) to display video on PC.

Parameters

Frequency	2.4GHZ(2.400-2.482GHz)
Wireless Fault-tolerant	Wireless Baseband FEC Forward Error Correction / Video MPEG Super Error Correction
TDMA Modulation	Downstream QPSK / Uplink BPSK
RF Transmitted Power	33dbm(Air to ground 40-70km)
Power Consumption	TX: 12Watts/RX: 9Watts
Bandwidth	2/4/6/8Mhz
Link rebuild time	≤1s
Latency	≤15-30ms
	1T1R
Antenna	TX: 5db(Omni Antenna) RX: 12db(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



Communication Channel Encryption	WEP, WPA(PSK), WPA2(PSK), WPA+WPA2 (PSK), AES 125/256
Transmission Mode	point to point / point to multipoint
Transmission Distance	Air to ground 40-70km
Start-up time	25s
Two-way function	Support SBUS/PPM/TTL
Power supply	DC 7- 18V
Temperature	Operating temperature: -40°C ~ 85°C Storage temperature: -55°C ~ 100°C
Interface (same interface on TX & RX) Indicator Light	1. 1080P/60 HDMI Mini RX(SDI on request)
	2. 100Mbps Ethernet Port
	3.Ethernet Port convert to TTL serial port (Support TCP/UDP)
	4. RS232 Serial Port
	(12V Electrical Level, Resistant to 3000V pulse voltage for 60 seconds and anti-static
	protection)
	5. RS422/485 Serial Port
	(Resistant to 3000V pulse voltage for 60 seconds and anti-staticprotection)
	6. SBUS/PPM Serial Port for Extending Application
	7. Audio(Trumpet) S2 Port for Extending Application
	8. Power Input XT30 (DC7-18V)
	9. Antenna SMA RF
	HDMI input/output indicator
	Transmitting and receiving WL indicator
	Video board indicator
	Power
Appearance Design	CNC technology/ double aluminum alloy shell with waterproof design
Dimension	76x73x24mm
Weight	TX: 146g, RX: 146g