

5km UAV Video and Data transmitting System

Offering TCP/UDP Ethernet Signal, TTL Bi-directional Data and Video Transmission in 1 RF channel

Model: FIM-2405

FIM-2405 mini transceiver is a new designed OFDM wireless communication equipment based on military standard for UAVs/Multi-rotor/Drones. It adopts H.264 technology + H.265's Algorithms video compression technology to achieve Ultra-high resolution(1080P) video and bi-directional data transmitting simultaneously with low delay(30ms) for 5km range.

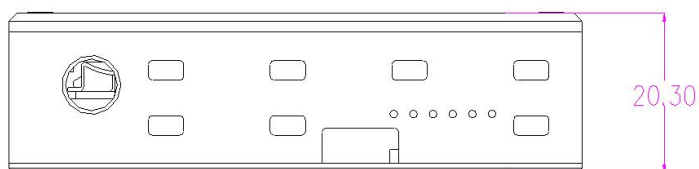


Features

- Video compression H.264 technology + H.265's Algorithms
- Dual Built-in encoder/decoder
- HDMI and IP Camera interface
- HD video and Telemetry receiver
- Built to enable controlling and transmitting
- Drone Communication + Video Processing
- Bi-Directional Data Link Supporting Simultaneous HDMI and Digital Video Streams
- Ethernet port supports TCP/UDP

Frequency	2.4GHz(2402Mhz-2482MHz)
Error Detection	LDPC FEC/Video H.264/265 Super Error Correction
RF Transmitted Power	27dbm (Air to ground 4-6km)
Power Consumption	TX: 6Watts
	RX: 5Watts
Frequency Bandwidth	4MHz
Latency	≤30ms
Transmission Rate	3Mbps
Receive Sensitivity	-100dbm@4Mhz
Video Color Space	Default 4:2:0
Antenna	1T1R
Video Input/output Interface	HDMI mini TX/RX, or transform FFC to HDMI-A RX/TX
Video Compressed Format	H.264

Bit Rate	Software adjustment, Max 115200bps
Encryption	AES 128
Transmission Distance	Air to ground 4-6km
Start-up time	< 25s
Two-way function	Support video and duplex data simultaneously
TTL	Serial Port×1: (Voltage:+-13V(RS232), 0~3.3V(TTL))
Power supply	DC 7- 18V(DC12V Suggested)
Interface	HDMI Mini x1
	100Mbps Ethernet to USB / RJ45 on Windows × 1
	S1 TTL bi-directional serial port x1
	Power Input x1
Indicator Light	HDMI input/output Status(WL Light)
	Signal Strength Indicator(1, 2, 3)
	Connection Status Indicator(5, 6)
	Video circuit board Work Indicator(4)
	Power
HDMI	HDMI mini/Flexible Flat Cable(FFC)
Temperature Range	Operating temperature: -40°C ~+ 85°C
	Storage temperature: -55°C ~+ 85°C
Metal Case Design	CNC Technology
	Double Aluminum Alloy Shell
	Conductive anodizing craft
Dimension	72.9×47.9×20.3mm
Weight	Tx: 93g/Rx: 93g



Dimension: 72.9*47.9*20.3mm

Weight: Tx/Rx 93g

Package List

Item	Qty
Tx	1
Rx	1
Tx Antenna	1
Rx Antenna	1
Antenna Cable	3
Ethernet Cable	3
TTL to USB Cable	4
TPlayer Software	1
HDMI Cable	2
Power Cable	4
Package Box	1