

8-12km UAV Video and Data System

Model: FIP-2410

FIP-2410 mini transceiver is a new designed TDD-COFDM wireless communication equipment based on military standard. It supports 2.3-2.5Ghz, transmitting HD IP Video and Bi-directional for 8-12km air to ground. With dual 10/100Mbps Ethernet interface and serial port, it provides HD video and bi-directional data transmission in real time.



Features

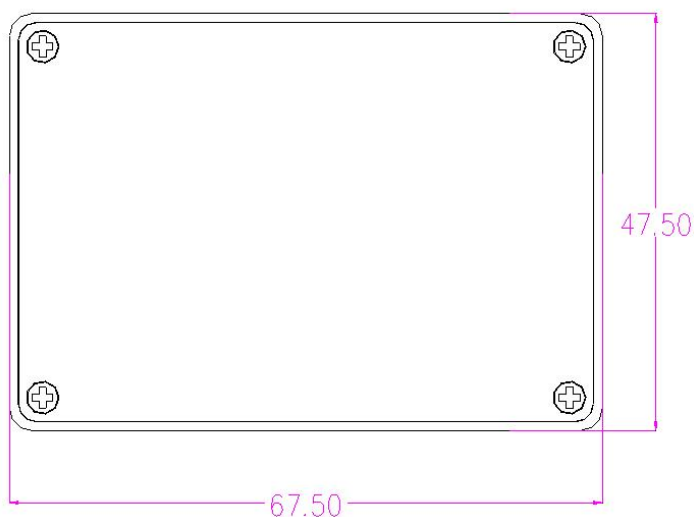
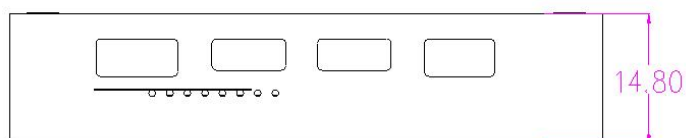
- ◆ Double 10/100Mbps Ethernet port support UDP/TCP
- ◆ One Serial port support Telemetry/MAVLINK/TT/RS232
- ◆ Serial port supports APM, Pixhawk 2.1, Pixhawk V3, Pixhawk 2 & Pixhawk4
- ◆ AES encryption video transmission
- ◆ Excellent performance in movement condition support max moving speed 400km/h
- ◆ Working frequency 2.3Ghz/2.4Ghz/2.5Ghz for option
- ◆ Transmit Rate 3/6Mbps
- ◆ Bandwidth 4/8Mhz

Parameter

Frequency	2.3Ghz(2304Mhz-2390Mhz): 2T2R
	2.4Ghz(2402Mhz-2482MHz): 1T1R (2T2R on request)
	2.5Ghz(2500Mhz-2570Mhz): 2T2R
RF Transmitting Power	30dBm(air to ground 8-12km)
Frequency Bandwidth	4/8MHz
Antenna	2.4Ghz: 1T1R omni antenna(2T2R On request)
	2.3Ghz and 2.5Ghz: 2T2R Omni antenna
Baud rate	Software adjustment
Communication Channel Encryption	AES 128
Transmission Mode	point to point
Error Detection	LDPC FEC
Start-up time	25s
Two-way function	Support video and duplex data simultaneously
Data	RS232 ($\pm 13V$), TTL (0~3.3V)
Transmission Rate	3/6Mbps
Serial Baud Rate	115200bps

Receive Sensitivity	-100dbm@4Mhz, -95dbm@8Mhz
Power	DC 7-18V
Power Consumption	TX: 6Watts
	RX: 5Watts
Temperature	Operating temperature: -40 ~ +85°C
	Storage temperature: -55 ~ +85°C
Interface	Power input interface × 1
	Antenna interface × 1 (2.3Ghz and 2.5Ghz Antenna interface x 2)
	Ethernet Interface × 2
	Serial Interface*1
Indicator	Power indicator(8)
	Connection Status Indicator(4, 5, 6, 7)
	Signal Strength Indicator(1, 2, 3)
Metal Case Design	CNC technology
	Double aluminum alloy shell
	Conductive anodizing craft
Size	68×48×15mm
Net Weight	Tx: 68g
	Rx: 68g

Dimension: 67.5*47.6*14.5mm
Weight: 68g



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
Power Cable	4
Package Box	1