

30km Drone Video & Duplex TTL Data System

Offering control, telemetry & payload, Video Transmission in 1 RF channel for 30km

Model: FIM-2430



Main Features

- Working Temperature: -40°C~+85°C
- Support 2-way
- TTL/MAVLINK/Telemetry/TCP/IP/UDP
- Video Input: HDMI and IP
- Support Video and Duplex Data
- Support PIXHAWK Fly Controller
- 100Mbps Ethernet for option
- Software for video locally save
- Video output to PC and Monitor simultaneously
- Double Serial ports for bi-directional data
- Baud rate: 115200bps(adjustable)

Specification

Frequency	2.4GHz(2.402-2.482GHz)
Error Detection	LDPC FEC/Video H.264/265 Super Error Correction
RF Transmitted Power	33dbm
Power Consumption	TX: 19Watts/RX: 8Watts
Distance	25-35km (Notes:True distance is related to the environment)
Bandwidth	4/8MHz
Antenna	1T: Omnidirectional Antennas 1R: Omnidirectional Antennas or Panel Antenna

Video Input/output	On board HDMI mini TX/RX or FFC convert to HDMI-A TX/RX
Video Color Space	Default 4:2:0
Video Compressed	AVC adds H.265 feature TS stream
Encryption	AES128
Transmission Mode	point to point
Start-up time	25s
Re-connection time	Less than 1s after signal has been recovered
End to End Latency	50-70ms for1080P60/720P60 Encoding and decoding
Transmission Rate	3/6Mbps
Receive Sensitivity	-98dbm@4Mhz
	-95dbm@8Mhz
Two-way function	Support video and duplex data simultaneously
Data	Support TTL/MAVLINK/Telemetry
Interface	1080P/60 HDMI Mini ×1
	Antenna ×1
	S1 TTL bidirectional serial port ×1
	RS 232 bidirectional serial port ×1 (RS 232 and S1 TTL serial port cannot be used at same time)
	Ethernet to RJ45 on Windows ×1
	Power Input ×1
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 light
HDMI	HDMI mini/Flexible Flat Cable(FFC)
Metal Case Design	CNC technology
	Double aluminum alloy shell
	Conductive anodizing craft
Power supply	DC7- 18V (DC12V advised)
Temperature Range	Operating temperature: -40°C ~+85°C
	Storage temperature: -55°C ~ +85°C
Dimension	Tx/Rx: 74.6×72.9x22.5mm
Weight	Tx/Rx 146g

Dimension: 72.9x76.4x22.5mm

Weight: 146g

