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**ToFree Aviation Technology Co.,Ltd**

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## The specification of F117

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- Small size ,low power consumption
  - Support HDMI input & output,SBUS,PPM and TTL
  - Support resolution adjustment(1080P 60+30/720P)
  - Support reception and transmission involving integration of multiple radio links for image and data transmission
  - Total latency is within 30ms
  - Transmission by 100Mhz Ethernet is optional.Support the low-latency decoding software TPlayer ,with the latency below 50ms
  - Omnidirectional antennas can improve the RF sensitivity
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■ Ground terminal can match with IP transmitter (In the upper left)

Parameters:

Wireless Channel	2.4GHZ(2.400 - 2.482 Ghz)
Communication Bandwidth	2/4/8MHZ
RF Transmission Power	3W
Data Rates	1.5/3/6Mbps
RX Sensitivity	-100/-95/-90dbm
HDMI	1080P60 HDMI Mini RX × 1
SDI	SDI can be made to order within three months
Ethernet Port	Ethernet to USB /RJ45 on Windows × 1
Ethernet Port to TTL	Supports TCP/UDP
Serial Port(S1 TTL)	3.3V electrical level
Serial Port(RS 422)	Be able to resist 3000v Pulsed voltage lasts 60s
Serial Port(RS 232)	Be able to resist 3000v Pulsed voltage lasts 60s
SBUS/PPM	S1 TTL Expanding Application
Two-way Voice(S2)	S2 Expanding Application
Power Input Interface	XT30 Industrial Grade DC 7-18V
Antenna	SMA RF *2 2*2 Omnidirectional antennas
Wireless Fault Tolerance	FEC/MPEG
Distance Range	80-120km Notes:True distance is related to the environment.
Total Latency	15—30ms
Reconnection time	Less than 1s after signal has been recovered
Setup time	25s
Adjustment of TDMA	Down QPSK/Up QPSK
Video compression format	H.265 TS Stream

Video color space	Default:4:2:0 Optional:4:2:4/4:2:4
Overall Consumption Power	Transmitter terminal:15W Decoder terminal :8W
Temperature Range	Operating temperature: -40—85℃ Storage temperature: -55 - 125℃
Dimensions	Transmitter terminal:76mm×73mmx44mm Decoder terminal :76mm×73mmx23mm
Gram	Transmitter terminal:251g Decoder terminal :146g

