



FPVspeed™

DIY Module Series

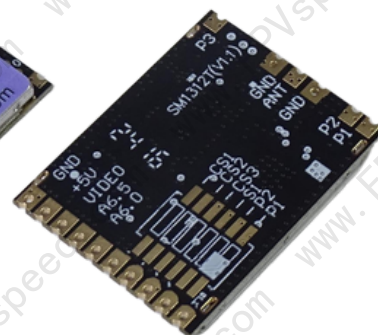
FPV Video Transmitter

FS12T08M

1120~1360MHz

KEY FEATURES

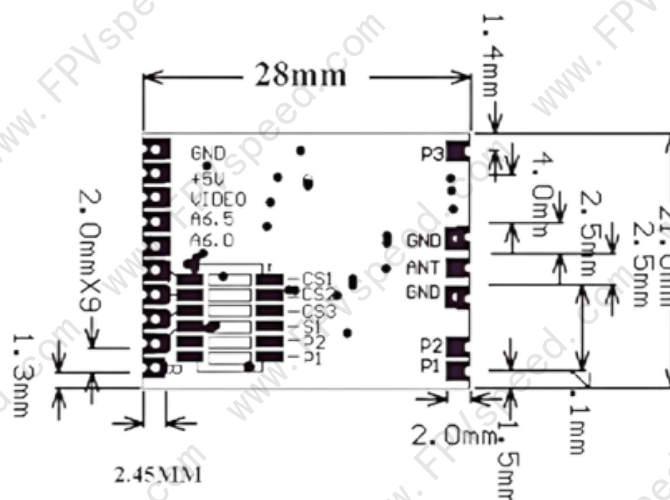
- Frequency Band: 1120~1360MHz
- Channel Customer: 8
- Channel Frequency:
 - A [1120/1120/1160/1200/1240/1280/1320/1360](MHz)
 - B [1120/1120/1160/1200/1258/1280/1320/1360](MHz)
- Modulation Type: FM
- Frequency Control: PLL
- Frequency Stability: $\pm 100\text{KHz(Typ.)}$
- Frequency Precision: $\pm 200\text{KHz(Typ.)}$
- A/V Ratio: $-20 \pm 7\text{dB}$
- S/N Ratio($F_0 \pm 3\text{MHz}$): $>70\text{dBc}$
- Channel Carrier Error: 1dB
- Antenna Port: 50 Ohms
- Input Format: PAL/NTSC
- Video Input Level: $1\text{V} \pm 0.2\text{Vp-p type}$
- Operating Temperature: $-10^\circ\text{C} \sim +60^\circ\text{C}$
- Dimension: L28 X W21 X H3.1mm



Board code: SM1312T

APPLICATIONS

- FPV Drone Racing
- UAV Communication Systems
- Remote Vehicle Monitoring
- Wireless Video Transmission Systems





FPVspeed™

DIY Module Series

FPV Video Transmitter

FS12T08M

1120~1360MHz

Pin No.	Function
1	RX, supports IRC control protocol
2	S1, Frequency Group SEL. Refer to Table2
3	CS3: Refer to Table2
4	CS2: Refer to Table2
5	CS1: Refer to Table2
6	Audio A6.0 Input (NC)
7	Audio A6.5 Input (NC)
8	Video Input
9	+5V~5.4V (IN)
10	GND
11	P3, GND
12	GND
13	ANT (RF OUT)
14	GND
15	P2 Power Control Pin (See the table1)
16	P1 Power Control Pin (See the table1)

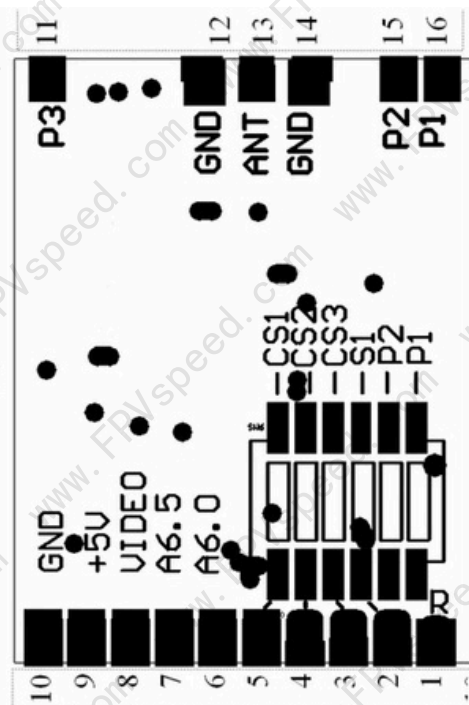


Table 1

Power	PIT	25mW	200mW	800mW
Pin 15 (P2) Level	0	1	0	1
Pin 16 (P1) Level	0	0	1	1
[Note] 0: Ground; 1: Connect to 3.3V or leave floating				



FPVspeed™

DIY Module Series

FPV Video Transmitter

FS12T08M

1120~1360MHz

Table 2

Channel A	Pin3 (CS3)	Pin4 (CS2)	Pin5 (CS1)	Pin2 (S1)
CH1: 1120MHz	0	0	0	1
CH2: 1120MHz	1	0	0	1
CH3: 1160MHz	0	1	0	1
CH4: 1200MHz	1	1	0	1
CH5: 1240MHz	0	0	1	1
CH6: 1280MHz	1	0	1	1
CH7: 1320MHz	0	1	1	1
CH8: 1360MHz	1	1	1	1
Channel B	Pin3 (CS3)	Pin4 (CS2)	Pin5 (CS1)	Pin2 (S1)
CH1: 1120MHz	0	0	0	0
CH2: 1120MHz	1	0	0	0
CH3: 1160MHz	0	1	0	0
CH4: 1200MHz	1	1	0	0
CH5: 1258MHz	0	0	1	0
CH6: 1280MHz	1	0	1	0
CH7: 1320MHz	0	1	1	0
CH8: 1360MHz	1	1	1	0

[Note] 0: Ground; 1: Connect to 3.3V or leave floating**DISCLAIMER**

This product is intended for civilian and commercial use only. It is strictly prohibited from being used for any military purposes or activities.