

## VTX-F16

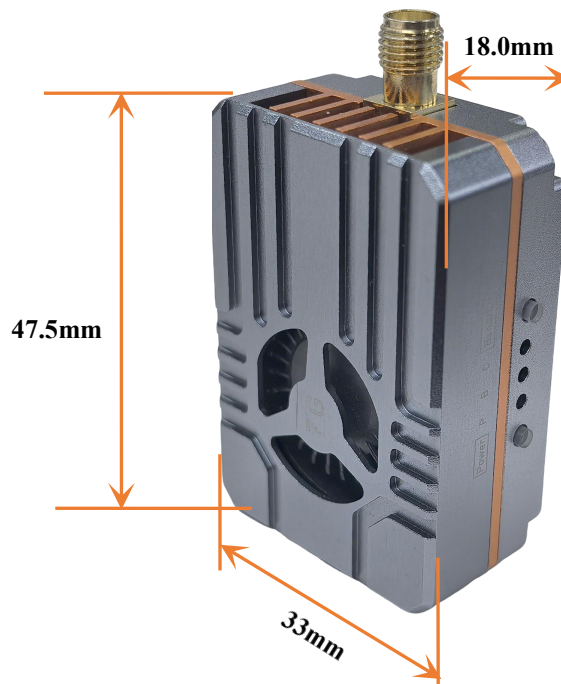
### (6.0G~7.2G 64CH 4.0W FPV Transmitter)

VTX-F16 is an image transmission transmitter with an output power of over 4.0W, It has the characteristics of small size, light weight, low power consumption, low latency, and strong anti-interference ability, It is equipped with a built-in aluminum heat sink and fan for active heat dissipation to enhance stable power transmission. The transmitter has temperature control protection function to prevent long-term ground parameter adjustment. The transmitter supports IRC protocol OSD parameter adjustment and is widely used in FPV drone flight, outdoor entertainment, racing competitions, and professional aerial photography.



Image

### Diagrams



## General Characteristics

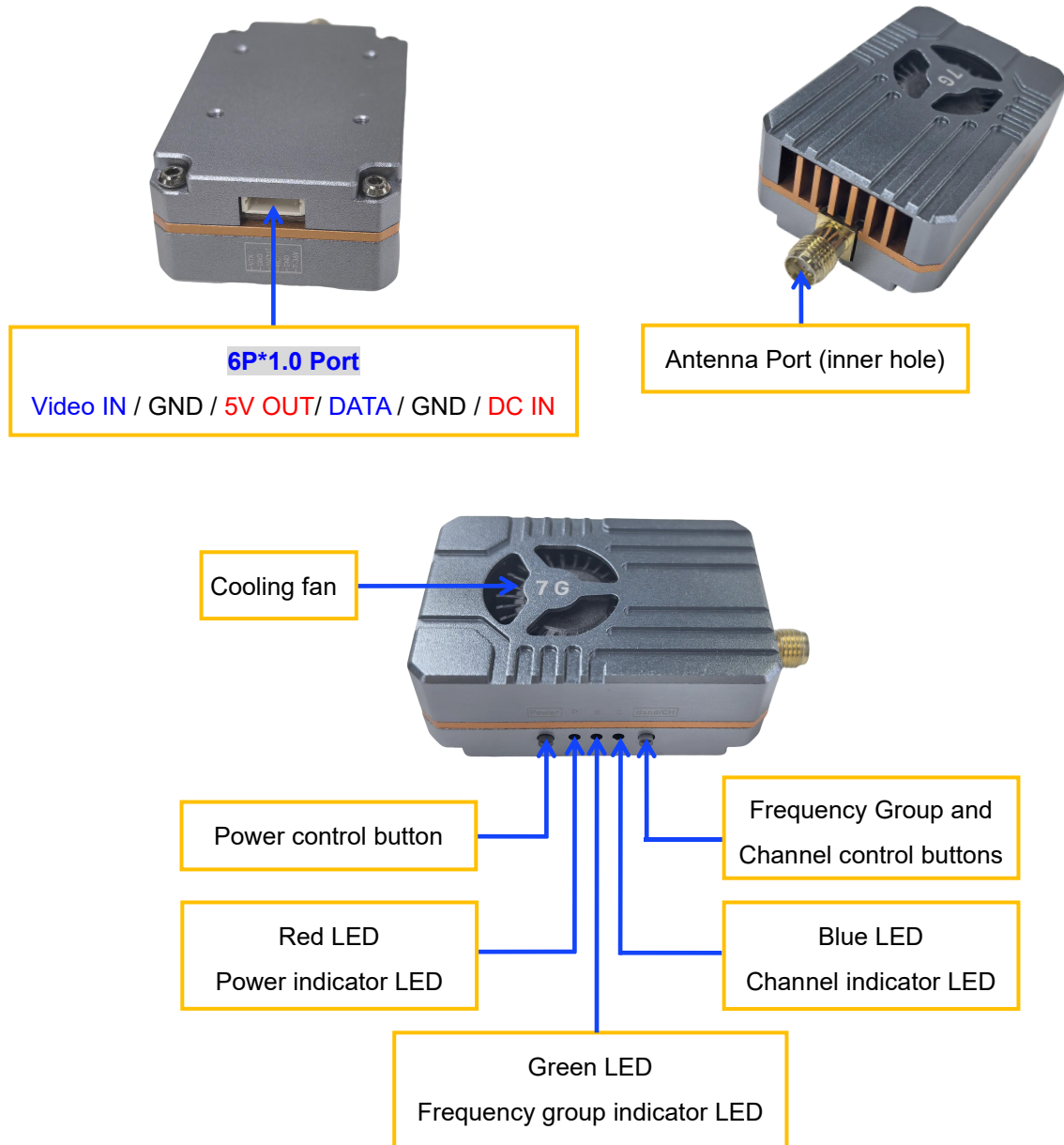
Item	SPEC
Input voltage	DC +7V~36V
Output voltage	DC +5V
Frequency band	6110~7210MHz
Frequency group	8
Channel number	64
Modulation type	FM
Frequency control	PLL
Frequency Stability	±100KHz (Typ.)
Frequency precision	±200KHz (Typ.)
S/N (Fo±3MHz)	>55dBc
Antenna Port	SMA 50 Ohms
Video input level	1V±0.2Vp-p type
Operating Temperature	-10°C~+60°C
Control Protocol	IRC
Weight	Approx.: 35.5g
Profile dimension	47.5mm(L) * 33mm(W) * 18.0mm(H)

## RF Output

Frequency Group (The number of Green LED flashes indicates frequency group)	Channel (MHz) (The number of blue LED flashes indicates the channel)							
	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
	FR1	6110	6130	6150	6170	6190	6210	6230
FR2	6270	6290	6310	6330	6350	6370	6390	6410
FR3	6430	6450	6470	6490	6510	6530	6550	6570
FR4	6590	6610	6630	6650	6670	6690	6710	6730
FR5	6750	6770	6790	6810	6830	6850	6870	6890
FR6	6910	6930	6950	6970	6990	7010	7030	7050
FR7	7070	7090	7110	7130	7150	7170	7190	7210
FR8	6115	6265	6425	6585	6745	6905	7065	7185

Power Level	0	1	2	3	4
Values	PIT	25mW	600mW	2W	4W
Current @12V	200mA±20mA	650mA±30mA	850mA±50mA	1A±100mA	1.5A±150mA

## Interface function



## Precautions for use:

- ◆ Please confirm whether the RF output antenna is installed properly before powering on, otherwise the module may be burned out.
- ◆ Before connecting the power supply, ensure that the correct voltage range and positive and negative poles are correct to avoid burning out the components.
- ◆ Try to use antennas with good standing wave ratio and gain to achieve longer transmission distances.
- ◆ During image transmission, high temperatures may be generated on the surface, Please do not touch it directly to avoid burns.

Pin port	Function Description
DC IN	Input voltage DC 7V~36V
GND	Ground
DATA	Remote control signal input port, Support IRC protocol to SET channel and power.
5V OUT	Output voltage DC 5V
GND	Ground
Video IN	CVBS video signal input (TYP. 1Vp-p @ 75Ohms )
Antenna Port	Antenna Port (SMA male head inner hole)
Channel control buttons	Set Frequency Group: Long press for 2 seconds to switch channel groups, Green light flashes once for Channel FR1 group, green light flashes twice for Channel FR2 group. And so on SET FR3 / FR4 / FR5 / FR6 / FR7 / FR8; Set CH1: Short press once and the blue light will flash once. Set CH2: Short press twice and the blue light will flash twice. And so on SET CH3 / CH4 / CH5 / CH6 / CH7 / CH8.
Power control button	Long press and hold the red light for more than 2 seconds to activate PIT mode. Short press once to flash the red light once for the first power level of 25mW. Short press twice to flash the red light twice for the second power level of 600mW. Short press three times to flash the red light three times for the third power level of 2W. Short press four times to flash the red light four times for the fourth power level of 4W.
Blue LED	Channel indicator LED: The number of LED flashes indicates the frequency point. Indicate frequency point, flash once to indicate CH1, flash twice to indicate CH2, flash three times indicate CH3, and so on.
Green LED	Frequency group indicator LED: The number of LED flashes indicates the frequency group. Flash once to indicate frequency group FR1. Flash twice to indicate frequency group FR2. flash three times indicate frequency group FR3, and so on.
Red LED	Power indicator LED: The number of LED flashes indicates the power. Long bright for PIT mode. Flashing once indicates 25mW. Flashing twice indicates 600mW. Flashing three times to indicate 2W. Flashing four times to indicate 4W.

## Accessory



5.9G~7.5G Antenna 1PC



6P\*1.0 Connecting cable with plug 1PC