VTX Video Transmitter 1.2G~1.3G 16CH 4.5W

This is an image transmission transmitter with an output power of over 4.5W, 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

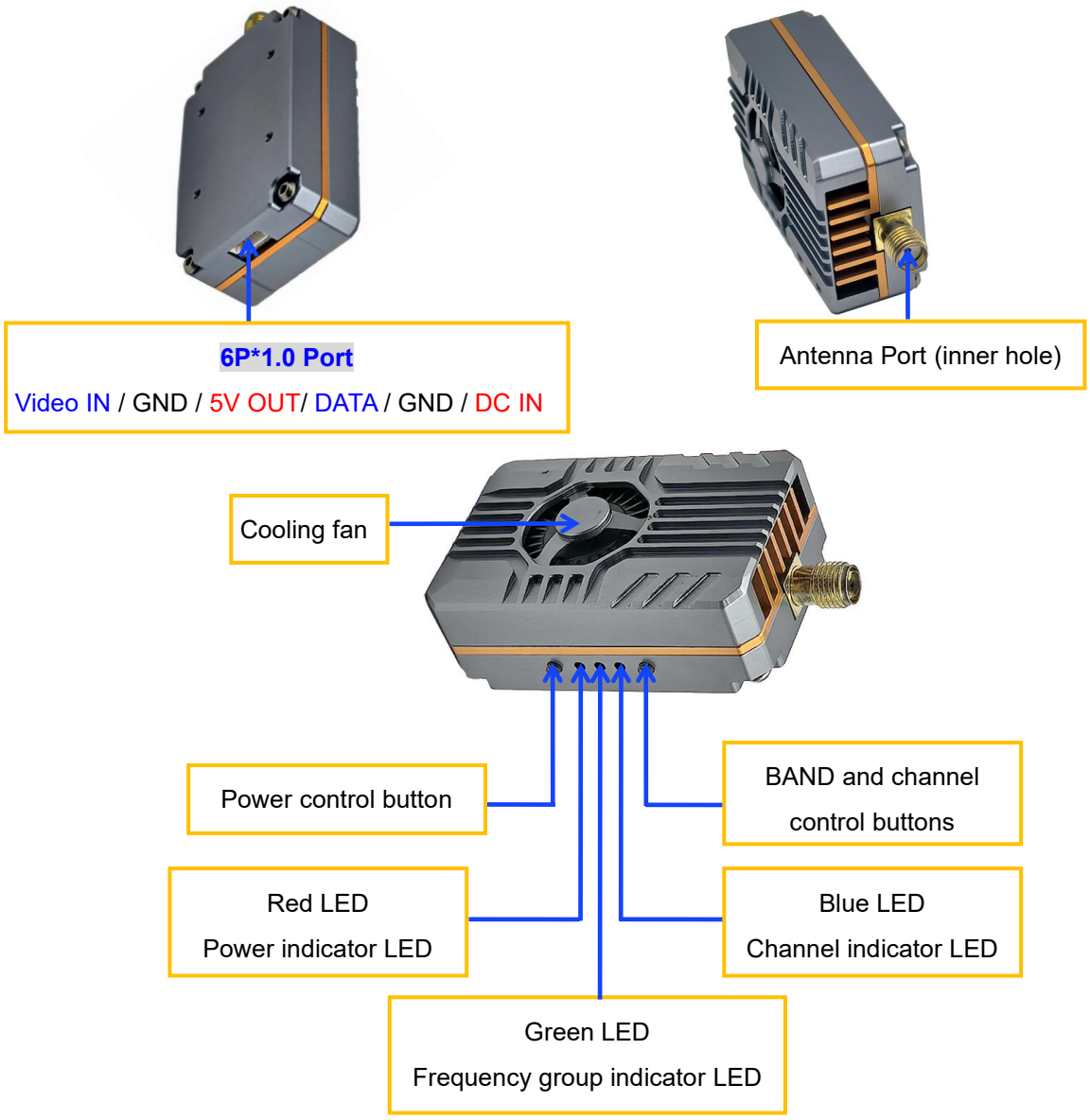
Item	SPEC
Input voltage	DC +7V~30V
Output voltage	DC +5V
Frequency band	1080~1360MHz
Channel customer	16
Channel Frequency	A: 1080/1120/1160/1200/1240/1280/1320/1360MHz B: 1080/1120/1160/1200/1258/1280/1320/1360MHz
Modulation type	FM
Frequency control	PLL
Frequency Stability	±100KHz (Typ.)
Frequency precision	±200KHz (Typ.)
S/N (Fo±3MHz)	>55dBc
Antenna Port	SMA 50 Ohms
Video input level	1V±0.2Vp-p type
Operating Temperature	-10℃~+60℃
Control Protocol	IRC
Weight	Approx.: 38.8g
Profile dimension	48.5mm(L) * 35mm(W) * 21.5mm(H)

RF Output

Channel group	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
1G2 Band A (MHz)	1080	1120	1160	1200	1240	1280	1320	1360
1G2 Band B (MHz)	1080	1120	1160	1200	1258	1280	1320	1360

Power Level	0	1	2	3	4
Values	PIT	25mW	200mW	2W	4.5W
Current @12V	140mA±20mA	410mA±30mA	460mA±40mA	800mA±50mA	1.15A±50mA

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～30V
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	1.2G Antenna Port (SMA male head inner hole)
BAND and channel control buttons	Set BAND: Long press for 2 seconds to switch channel groups, Green light flashes once for Channel A group, green light flashes twice for Channel B group. 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 200mW. 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 4.5W.
Blue LED	Channel indicator LED: 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: Flash once to indicate frequency group A. Flash twice to indicate frequency group B.
Red LED	Power indicator LED: Long bright for PIT mode. Flashing once indicates 25mW. Flashing twice indicates 200mW. Flashing three times to indicate 2W. Flashing four times to indicate 4.5W.

Accessory



1.2G Antenna 1PC



6P*1.0 Connecting cable with plug 1PC