

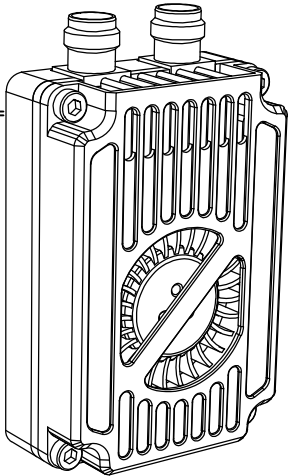
4.9 / 5.8GHz 2.5W Video Transmitter

SPECIFICATION

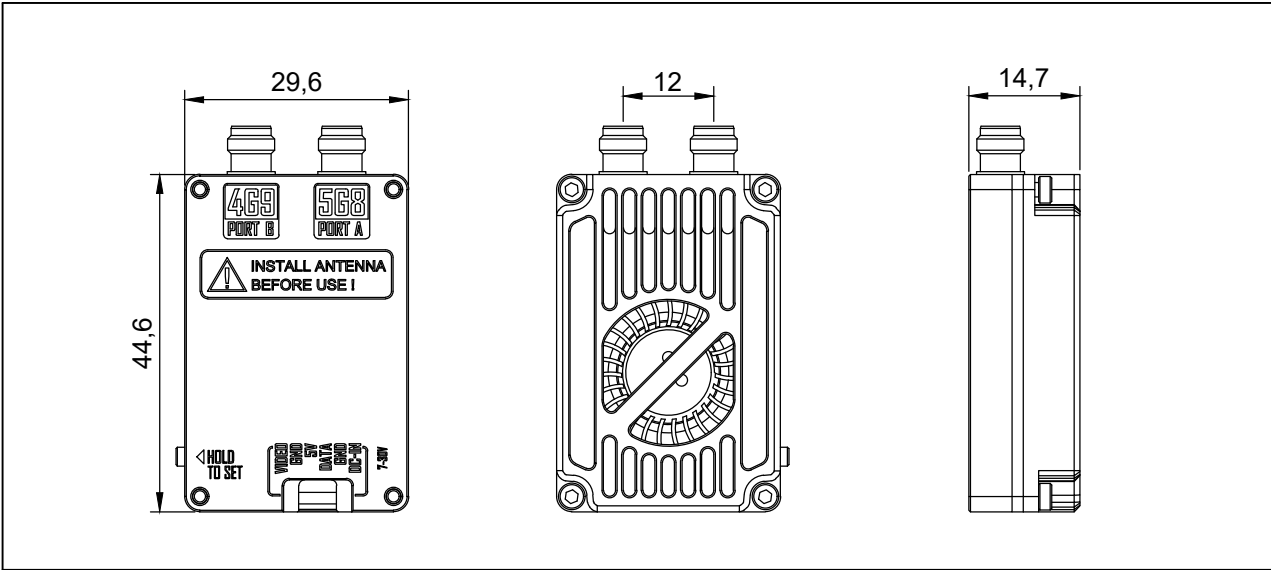
REV. A DATE 08-27-2024

Features

- Revolutionary dual-band transmitter design with fast switching greatly extends channel coverage and brings more possibilities.
- Efficient PA and power calibration to ensure power consistency across all channels.
- Aluminum alloy triple shell structure and large centrifugal fan provide sufficient heat dissipation.



Diagrams



General Characteristics

Frequency band	4990-5200+5362-5945MHz	Frequency precision	±200KHz (Typ.)
Channel customer	8 + 48CH	S/N(For ±3MHz)	>70dBc
Modulation type	FM	Antenna Port	SMA 50 Ohms
Frequency control	PLL	Video input level	1V±0.2Vp-p (typ.)
Frequency stability	±100KHz (Typ.)	Operating Temperature	-10℃~+70℃
Power Supply	DC 7-30V	Control Protocol	IRC Tramp

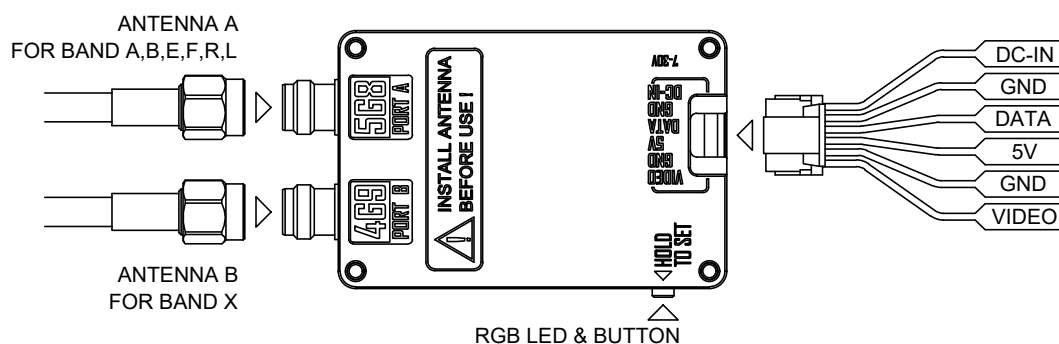
Channel List

Band	RF Port	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
1	A	A	5865	5845	5825	5805	5785	5765	5745
2	B	A	5733	5752	5771	5790	5809	5828	5847
3	E	A	5705	5685	5665	5645	5885	5905	5925
4	F	A	5740	5760	5780	5800	5820	5840	5860
5	R	A	5658	5695	5732	5769	5806	5843	5880
6	L	A	5362	5399	5436	5473	5510	5547	5584
7	X	B	4990	5020	5050	5080	5110	5140	5170

RF Power

Power Level	0	1	2	3	4
Values	PIT	25mW	200mW	1000mW	2500mW
Min.	-60 dBm	12.5 dBm	21.5 dBm	28.5dBm	33dBm
Typ.	-50 dBm	14 dBm	23 dBm	30dBm	34dBm
Max.	-40 dBm	16.5 dBm	24.5 dBm	31.5dBm	35dBm
Current @12V	40 mA	140 mA	300 mA	450mA	750mA

Wiring & Settings



The antenna must be installed before use!

The frequency of the antenna must correspond to the SMA interface definition!

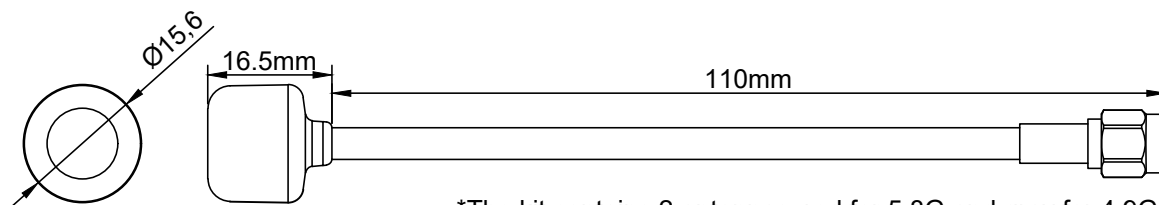
Controlled using a single button, the button integrates RGB lighting, **blue for band**, **red for channel**, and **green for power level**.

When there is no operation, the RGB LED blinks cyclically, the number of times the RGB blinks represents the current VTX status (when the green LED is **always on**, the VTX enters PITMODE).

Long press the button to enter VTX setting, at this time the RGB lights are lit alternately, release the button under the corresponding color light to enter the corresponding function setting. At this time, **short press** the button to adjust the value.

For setup via the flight controller, connect the DATA pin and use the IRC Trump protocol.

Transmitter antenna



Polarization	RHCP	Gain	1.8 dBi
Bandwidth	4990-5200 / 5658-5945MHz	V.S.W.R	<1.5
Radiation pattern	Omni-directional	Cable	RG402-SMA