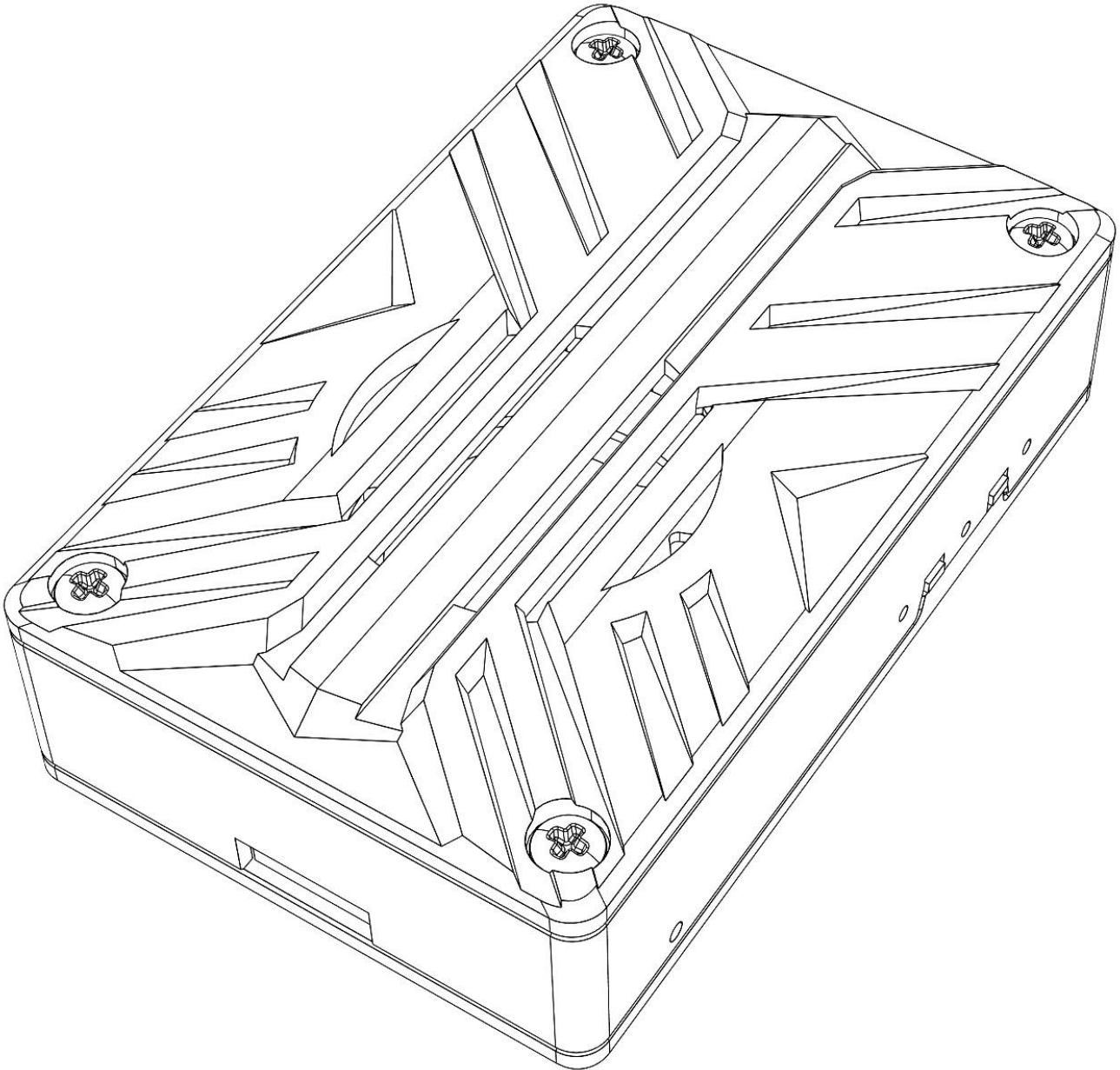


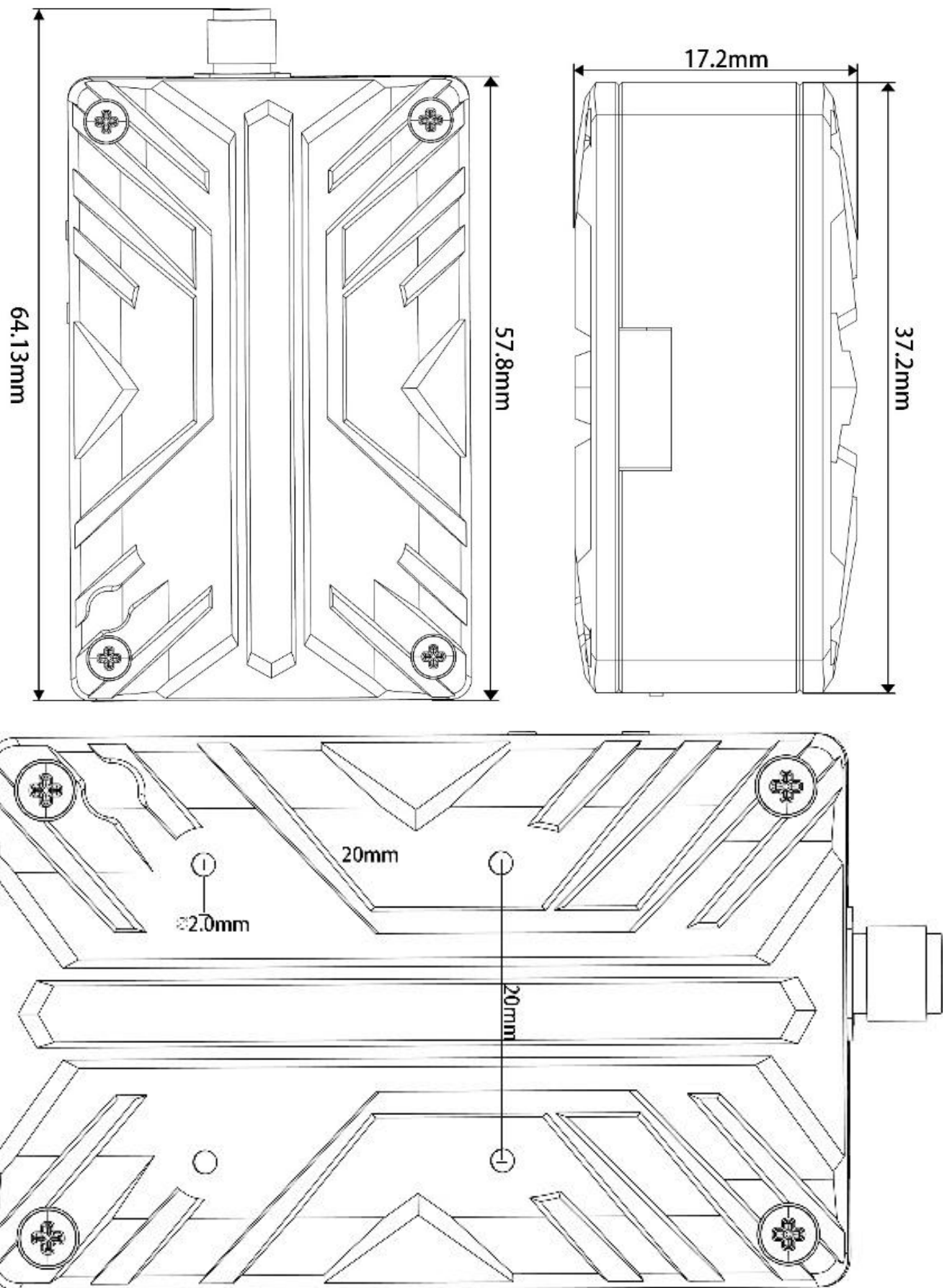
3 GHz-5 GHz 5 W VTX Module User Manual

1. Product Appearance



Product appearance reference.

2. Product Dimensions

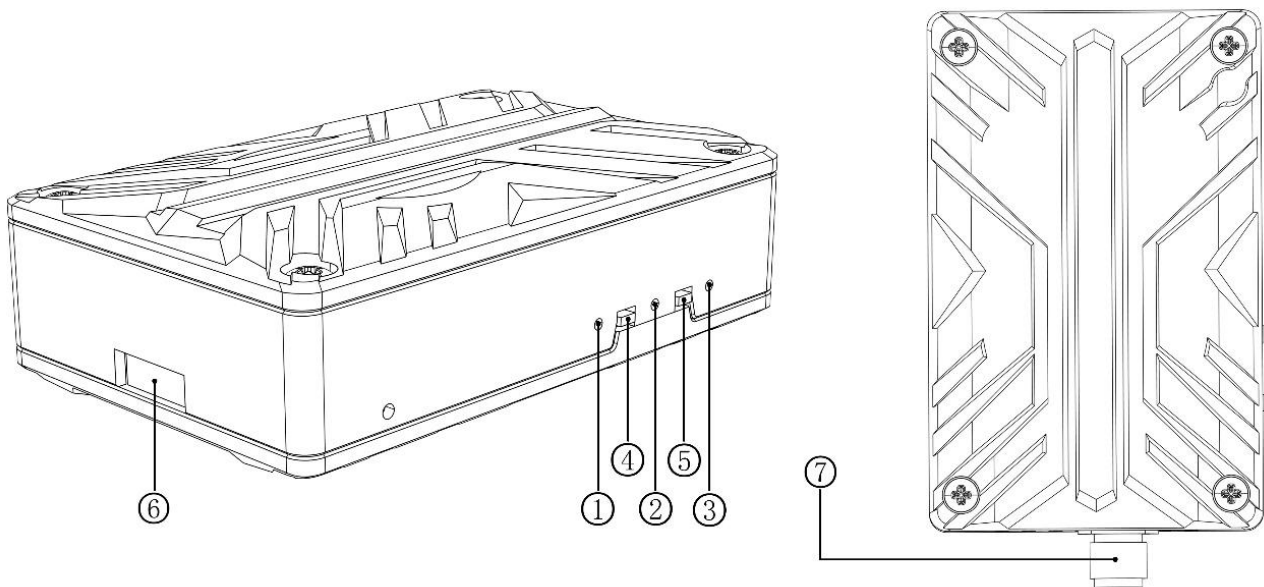


Dimensions and mounting-hole layout. Unit: mm.

3. Specifications

Item	Specification
Frequency range	3 GHz-5 GHz; 64 preset channels (3000 MHz-4938 MHz)
Maximum RF output power	5 W; adjustable levels: 0 mW / 25 mW / 2.5 W / 5 W
Input voltage	DC 15-36 V; supports 2S-8S battery input
Antenna connector	SMA female connector
Communication protocol	IRC Tramp
Cooling method	Aluminum-alloy enclosure + heatsink + cooling fan
Mounting pattern	20 mm x 20 mm / $\varnothing$ 2.0 mm
Product dimensions	64.13 mm x 37.2 mm x 17.2 mm
Product weight	56 g

4. Interface, Button and LED Layout



Interface and button/LED position reference.

No.	Description
1	Channel indicator: red LED
2	Band indicator: blue LED
3	Power indicator: green LED
4	Band/channel adjustment button
5	Power adjustment button
6	1.0 mm 8-pin ribbon-cable connector
7	SMA female antenna connector

5. Button Controls and LED Indicator Definitions

Button 4 is used for channel and band selection. Short-press Button 4 once to switch to the next channel. The corresponding red LED flashes in sequence from CH1 to CH8; the sequence repeats cyclically.

Operation	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
Red LED	1 flash	2 flashes	3 flashes	4 flashes	5 flashes	6 flashes	7 flashes	8 flashes

Long-press Button 4 for 5 seconds to switch bands. The corresponding blue LED flashes through Band_A, Band_B, Band_E, Band_F, Band_R, Band_P, Band_H and Band_U; the sequence repeats cyclically.

Operation	Band_A	Band_B	Band_E	Band_F	Band_R	Band_P	Band_H	Band_U
Blue LED	1 flash	2 flashes	3 flashes	4 flashes	5 flashes	6 flashes	7 flashes	8 flashes

Button 5 is used for power adjustment. Short-press Button 5 once to switch to the next power level. The green LED indicates the current power level as shown below. Long-press Button 5 for 3 seconds to enter Pit Mode; the green LED remains solid on.

Operation	Pit Mode	0 mW	25 mW	2500 mW	5000 mW
Green LED	Solid on	1 flash	2 flashes	3 flashes	4 flashes

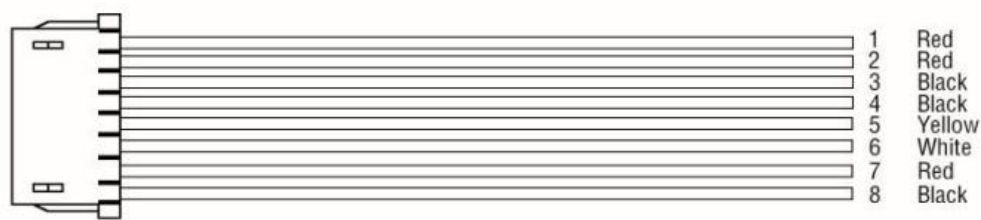
Temperature protection: When the VTX temperature exceeds 100°C, the output power automatically decreases by one level. If the temperature remains above 100°C, the output power continues to decrease step by step until it reaches the minimum level of 25 mW. When the temperature drops to 95°C, the output power returns to the originally selected level.

6. Channel Frequency Table

Band	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
Band_A	3000	3030	3060	3090	3120	3150	3180	3210
Band_B	3240	3270	3300	3330	3370	3400	3430	3470
Band_E	3500	3530	3560	3590	3620	3650	3680	3710
Band_F	3740	3770	3800	3830	3860	3890	3920	3950
Band_R	3980	4010	4040	4070	4100	4130	4160	4190
Band_P	4220	4250	4280	4310	4340	4370	4400	4430
Band_H	4470	4500	4530	4560	4590	4620	4650	4680
Band_U	4710	4740	4770	4812	4839	4872	4911	4938

All frequency values are in MHz.

7. 8-Pin 1.0 mm Ribbon-Cable Connector Pinout

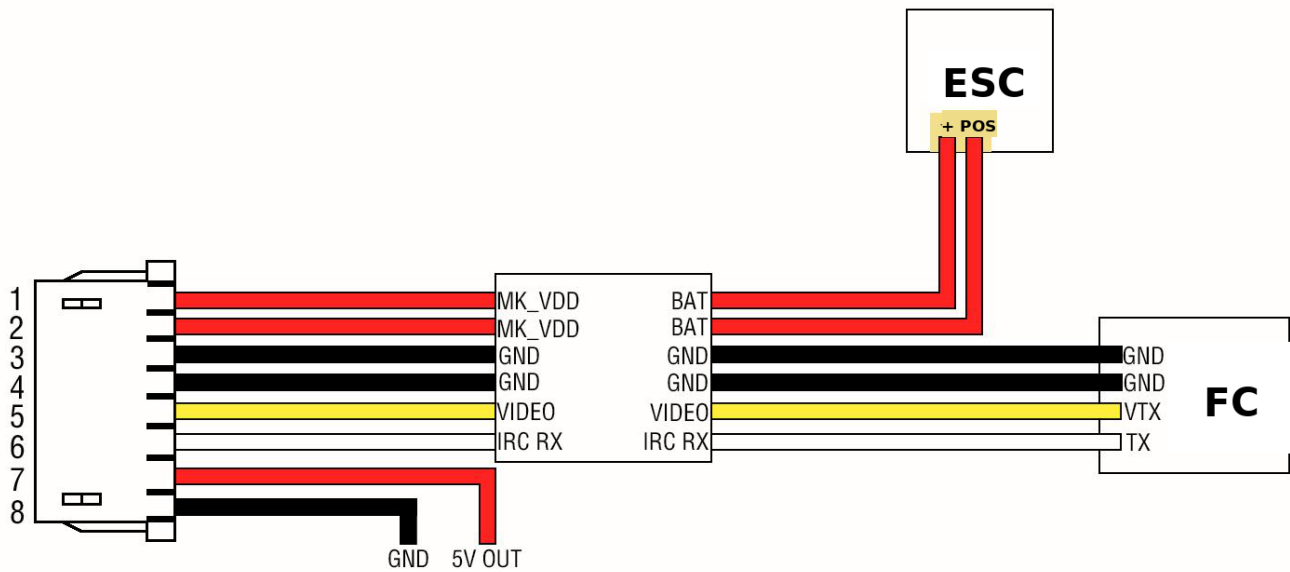


Wiring Table:

NO	1	2	3	4	5	6	7	8
FUN	18-36V		GND		Video	IRC	5V Out	GND
Color	Red		Black		Yellow	White	Red	Black

Pinout and wiring-table reference.

8. Wiring Definition



Wiring reference. Connect the module according to the pinout and wiring relationship shown above.

9. Important Usage Notes

1. During installation, leave enough space around the VTX to ensure airflow and heat dissipation. Otherwise, thermal protection may activate, reducing the RF output power or even shutting down RF transmission.
2. Before applying power, verify that the input voltage is within the specified range and that the positive and negative polarity are connected correctly. Incorrect wiring may damage components.
3. Before applying power, make sure an antenna matching the operating frequency is installed on the RF output connector. This helps protect the RF output stage and extends the service life of the module.
4. Read this manual before use to ensure correct wiring and to extend the service life of the module.

End of manual.