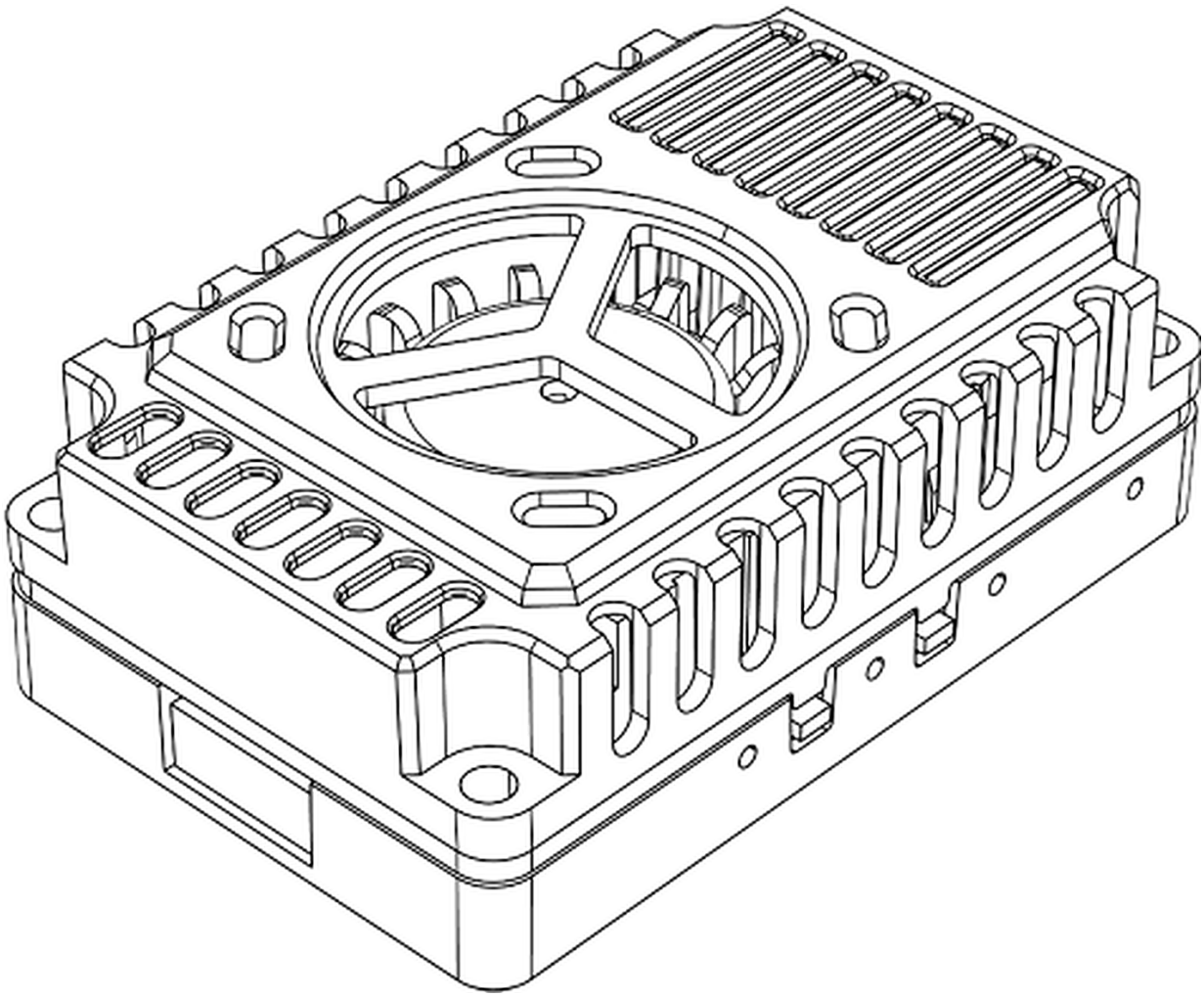
7.2GHz 4W VTX Module User Manual

(TX)

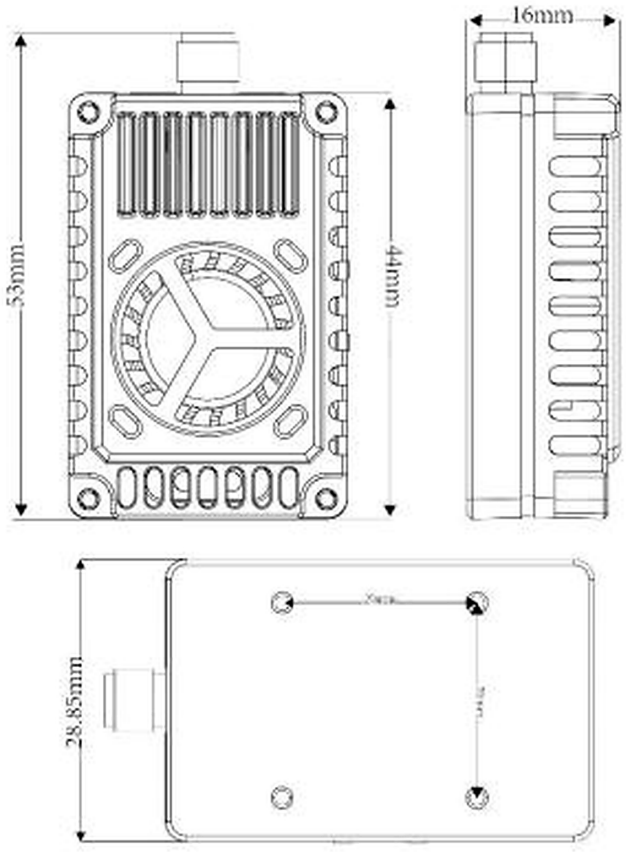
64CH Analog VTX Module | English Version

1. Product Appearance



This manual covers product appearance, dimensions, specifications, interface layout, button operation, LED status definitions, frequency table, connector definition, and usage precautions for the 7.2GHz 4W TX module.

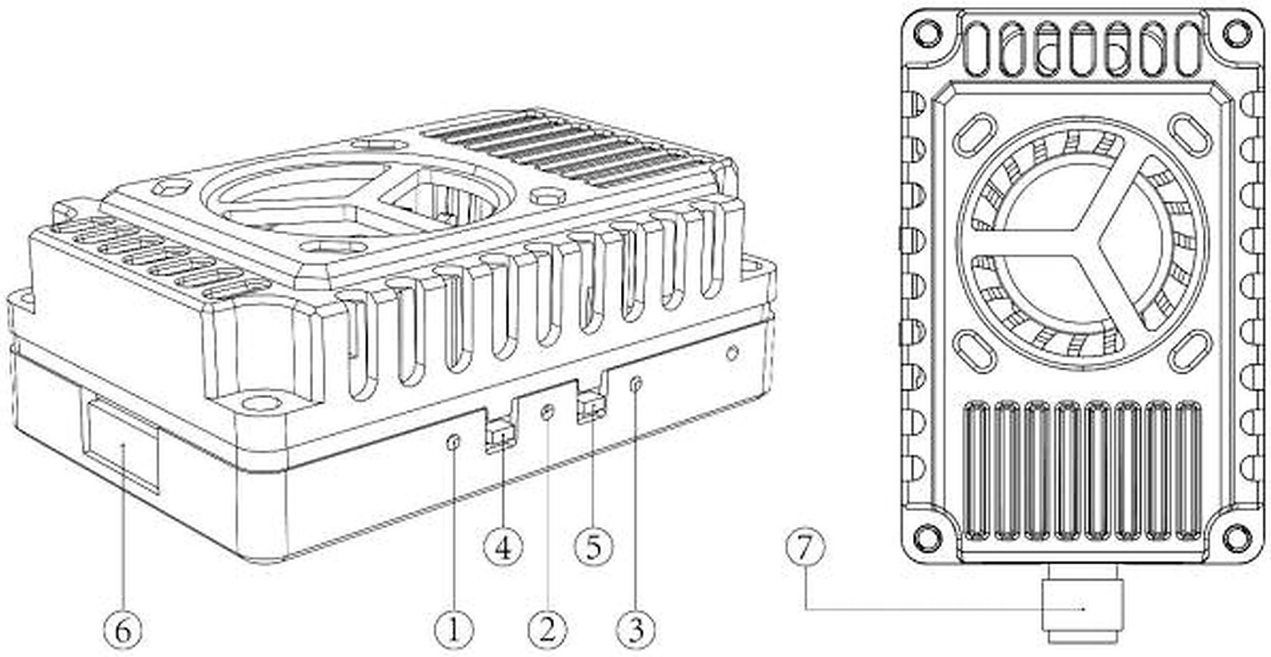
2. Product Dimensions



3. Specifications and Features

Item	Specification
Frequency Range	7.2GHz, 64 channels: 6110MHz-7210MHz
Max RF Output Power	4W (25mW / 2000mW / 4000mW adjustable)
Input Voltage	DC 7V-36V, supports 2S-8S battery input
Antenna Connector	SMA female
Control Protocol	IRC Tramp
Cooling Method	Aluminum heatsink + fan
Mounting Holes	20mm x 20mm / ø2mm
Dimensions	53mm x 28.85mm x 16mm
Weight	25.85g

4. Interface, Button, and LED Layout



No.	Description	Type / Color
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	6P 1.0 ribbon cable connector	-
7	SMA female antenna connector	-

5. Button Operation and LED Status Definitions

1. Button 4 is used for channel and band switching. Short press button 4 to switch to the next channel. The red LED flashes to indicate the selected channel. Channels 1-8 cycle in sequence.

Short Press Button 4 - Channel Switching	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

2. Long press button 4 for 5 seconds to switch the band. The blue LED flashes to indicate the selected band. Bands A, B, E, F, R, P, H, and U cycle in sequence.

Long Press Button 4 - Band Switching	A	B	E	F	R	P	H	U
Blue LED	1 flash	2 flashes	3 flashes	4 flashes	5 flashes	6 flashes	7 flashes	8 flashes

3. Button 5 is used for power adjustment. Short press button 5 to cycle through 25mW, 2000mW, and 4000mW. The green LED indicates the current output power. Long press button 5 for 3 seconds to enter Pit Mode; in Pit Mode, the green LED remains solid.

Power Button 5	Pit Mode	25mW	2000mW	4000mW
Green LED	Solid	1 flash	2 flashes	3 flashes

Over-temperature protection: When the VTX temperature exceeds 100°C, the module automatically reduces RF output power by one level. If the temperature remains above 100°C, it continues to reduce power until the minimum level of 25mW. When the temperature drops below 95°C, the RF output power returns to the previously selected level.

6. Frequency Table (MHz)

Band / Channel	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
Band A	6110	6130	6150	6170	6190	6210	6230	6250
Band B	6270	6290	6310	6330	6350	6370	6390	6410
Band E	6430	6450	6470	6490	6510	6530	6550	6570
Band F	6590	6610	6630	6650	6670	6690	6710	6730
Band R	6750	6770	6790	6810	6830	6850	6870	6890
Band P	6910	6930	6950	6970	6990	7010	7030	7050
Band H	7070	7090	7110	7130	7150	7170	7190	7210
Band U	6115	6265	6425	6585	6745	6905	7065	7185

7. 6P 1.0 Ribbon Cable Connector Definition

Wiring Table:

Pin	1	2	3	4	5	6
Function	DC 7V-36V	GND	Video	IRC	5V Out	GND
Wire Color	Red	Black	Yellow	White	Red	Black

8. Usage Notes

1. Leave sufficient space around the VTX module during installation to ensure airflow and heat dissipation. Otherwise, over-temperature protection may reduce RF output power or shut down RF output.
2. Before powering on, verify that the input voltage is within the specified range and that the polarity is correct to avoid component damage.
3. Before powering on, make sure an antenna is connected to the RF output port. This helps protect the RF output stage and extend module life.
4. Read this manual before use to ensure correct wiring and long-term reliable operation.

Before Power-On	Requirement
Voltage	Confirm the correct DC voltage range
Polarity	Confirm positive and negative polarity
Antenna	Connect an antenna to the RF output port
Cooling	Keep sufficient airflow around the module