

Features

- Designed for long-range flights, up to 4W transmitting power, and provide multi-level adjustment.
- Efficient PA and power calibration to ensure power consistency across all channels.
- Customized digital PLL circuit, chip level integration, no frequency drift.
- Aluminum alloy three-layer shell structure and large centrifugal fan provide sufficient heat dissipation to ensure stable output of transmitting power.



General Characteristics

Frequency band	3170-3470MHz	Frequency precision	±200KHz (Typ.)
Channel customer	16	S/N(For ±3MHz)	>55dBc
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

RF output

	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
3G3 BAND A	3330	3350	3370	3390	3410	3430	3450	3470
3G3 BAND B	3170	3190	3210	3230	3250	3270	3290	3310

*BAND C & D band customization available, BAND C = 3010-3150MHz, BAND D = 2850-2990MHz.

Power Level	0	1	2	3	4
Values	PIT	25mW	200mW	1000mW	4000mW
Min.	-30dBm	12dBm	21dBm	29dBm	35.5dBm
Typ.	-28dBm	14dBm	23dBm	30dBm	36dBm
Max.	-26dBm	16dBm	25dBm	31dBm	36.5dBm
Current @12V	160mA	270mA	550mA	880mA	1400mA

Wiring

A diagram showing the connection of an antenna, RGB LED & button, and power supply to the VTX module. The antenna is connected to the SMA port. The RGB LED & button is connected to the top of the module. The power supply is connected to the bottom of the module. The module has two rows of pins labeled A and B. The A row has pins for PIT, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16. The B row has pins for PIT, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16. The module also has a 7-30V Lipo-IN port and a 7-30V Lipo-OUT port.

Antenna must be connected before use! Otherwise there is a risk of damage to the product.

The product needs to be mounted reliably, avoiding vibration and high temperatures.

The product has a built-in power filter, but still need to avoid excessive power supply interference.

Settings

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.