1.2G/1.3G 6W VTX Video Transmitter

MODEL: AL1306



Features

- 1.3G VTX Designed for long-range flights, up to 6W 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.
- 16 channels supports band switching within the 1080-1360MHz range.

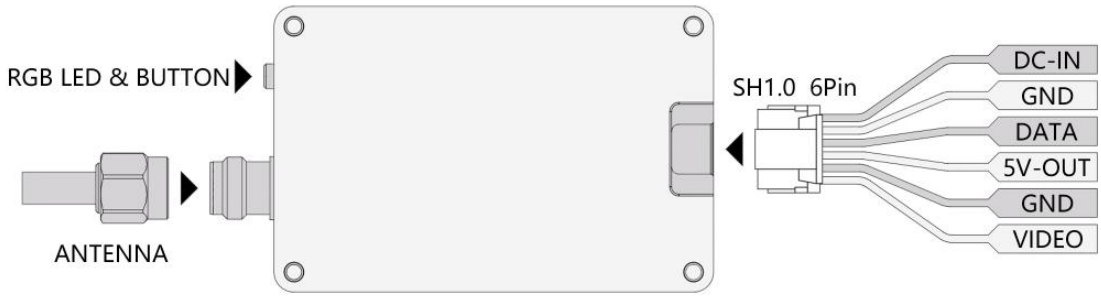
General Characteristics

Frequency band	1080-1360MHz	Frequency precision	±200KHz (Typ.)
Channel	16 CH	Output power	PIT/25mW/200mW/1W/6W
Modulation type	FM	Power Supply	DC 7-30V (2-8S)
Frequency control	PLL	Video input level	1V±0.2Vp-p (typ.)
Control Protocol	IRC Tramp	S/N(For ±3MHz)	>55dBc
Antenna	SMA 50 Ohms	Operating Temperature	-10℃~+70℃
Dimension	44*28.6*14.7mm	Weight	25.3g

Frequency table

	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
BAND A	1080	1120	1160	1200	1240	1280	1320	1360
BAND b	1200	1220	1240	1258	1280	1300	1320	1340

Wiring and Operation



Attention

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.