

iFlight B011639 BLITZ 1.6W VTX LED Indicator Instructions

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iFlight B011639 BLITZ 1.6W VTX LED Indicator



Product Information

The IFLIGHT BLITZ VTX 1.6W is a video transmitter designed for use in drones or other similar applications. It has a power output of 1.6W and supports multiple power levels including 25mW, 400mW, 800mW, and 1600mW. The VTX has a mounting pattern of 30.5*30.5mm and uses an MMCX interface for connectivity. It also features

VTX telemetry using IRC Tramp technology. The weight of the VTX is 19g.

Product Usage Instructions

Mounting and Installation

- Ensure that there is enough space around the VTX for proper air convection to dissipate heat. Insufficient cooling can trigger overheat protection and reduce or even switch off power transmission.
- Before installation, read the instructions carefully for proper wiring.

Power Connection

- Make sure to connect the VBAT (Positive input) and GND (Negative) ports correctly to the power source.
- Check the voltage range and ensure the correct positive and negative polarity before switching on the power to prevent component damage.

Antenna Installation

- It is recommended to install the antenna before powering on the VTX to extend the module's lifespan.
- Note that antennas must be installed before powering on to prevent potential damage to the VTX.

Band and Channel Selection

- Use the Band button (blue LED) to switch between bands (A to R). Press and hold the button for 2 seconds to switch the band.
- Use the Channel button (red LED) to switch between channels (1 to 8). Short press the button to change the channel.

Output Power Selection

- Short press the Power button to change the output power level.
- The LED indicator will flash to indicate the selected power level: 1 flash for 25mW, 2 flashes for 100mW, and 3 flashes for 200mW.

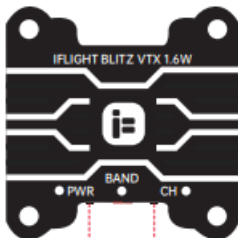
Connection to Flight Controller (FC)

- If using with an FC, connect the VTX to the FC using the following connections:
 - VTX 7-34V: Connect to the VO/VTX port on the FC.
 - GND: Connect to the GND port on the FC.
 - RX: Connect to the IRC Tramp signal input on the FC.
 - 5V OUT: Connect to the 5V power output on the FC.
 - VIDEO: Connect to the video signal input on the FC.
- Enable the corresponding VTX IRC Tramp on UART port of the FC.

Connection without Flight Controller

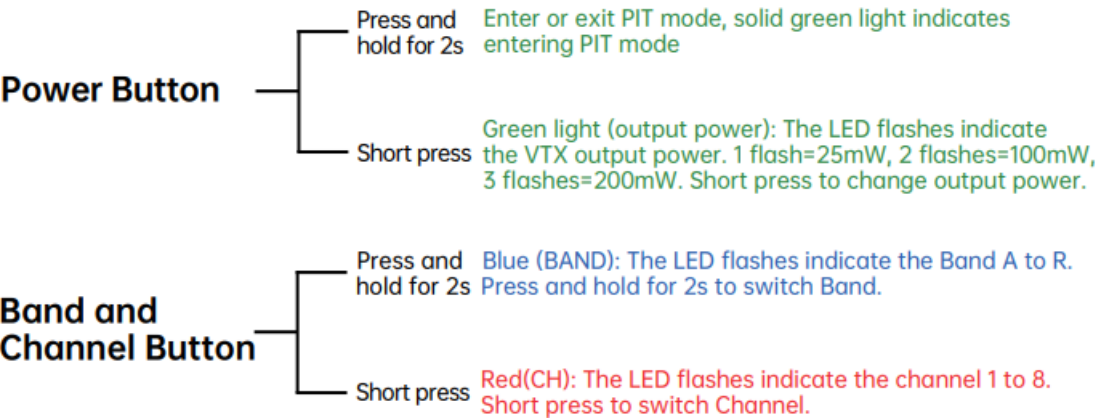
- If using the VTX without an FC, connect it as follows:
 - Battery: Connect to a power source with a voltage range of 7-34V.
 - GND: Connect to the ground.
 - Video: Connect to the camera's video signal input.
 - Camera GND: Connect to the camera's ground.
 - 5V: Connect to a 5V power source (optional).

BLITZ 1.6W VTX Instructions



Power button Band and channel button

LED Indicator and Function Button



Frequency Table

Note: Antennas must be installed BEFORE powering on.
The VTX can be damaged when using without proper cooling.

BAND	CH							
	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
A	5865MHz	5845MHz	5825MHz	5805MHz	5785MHz	5765MHz	5745MHz	5725MHz
B	5733MHz	5752MHz	5771MHz	5790MHz	5809MHz	5828MHz	5847MHz	5866MHz
E	5705MHz	5685MHz	5665MHz	5645MHz	5885MHz	5905MHz	5925MHz	5945MHz
F	5740MHz	5760MHz	5780MHz	5800MHz	5820MHz	5840MHz	5860MHz	5880MHz
R	5658MHz	5695MHz	5732MHz	5769MHz	5806MHz	5843MHz	5880MHz	5917MHz

Specs:

- Power levels:25mW/400mW/800mW/1600mW Mounting pattern: 30.5*30.5mm
- Interface:MMCX
- VTX telemetry:IRC Tramp
- Weight:19g

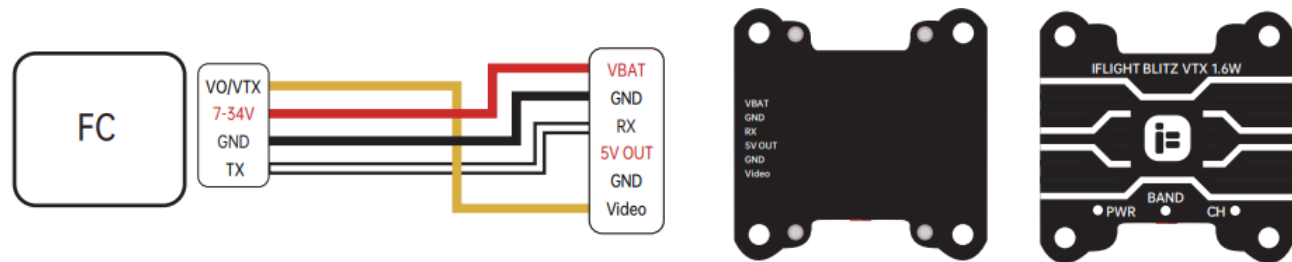
Ports:

- VBAT: Positive input GND: Negative
- RX: IRC Tramp signal
- input 5V OUT: 5V
- power output GND: Negative
- VIDEO: Video signal input

Attention:

1. Please keep enough space when you install the VTX to ensure air convection around the module for heat dissipation. Otherwise, the module will enable overheat protection and the power transmission will be reduced or even switched off.
2. It is recommended to ensure the correct voltage range and the correct positive and negative polarity before switching on the power to avoid burning the components.
3. It is recommended that before switching on the power, make sure that the antenna has been installed, it can extend the life of the module.
4. Please read the instructions for proper wiring before use.

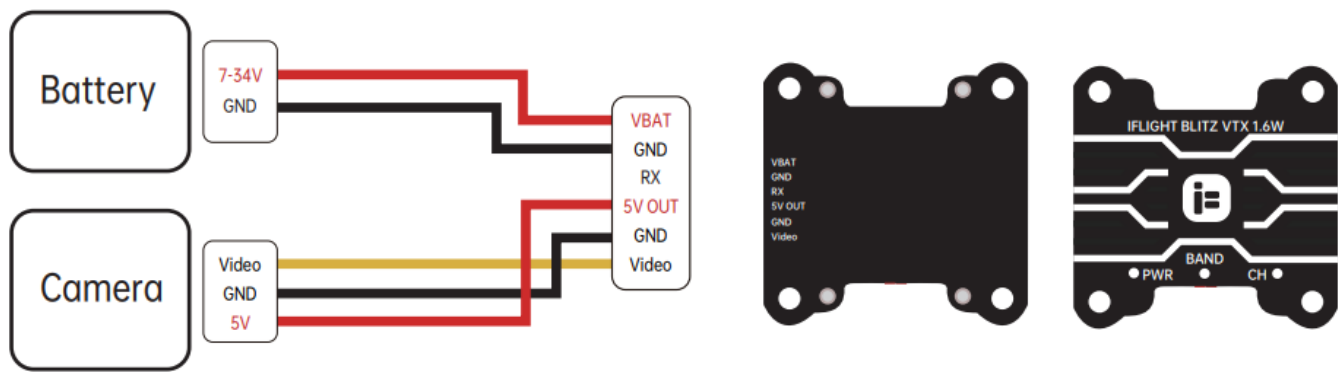
Connect VTX to FC



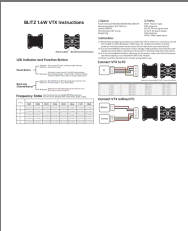
Enable the corresponding VTX IRC Tramp on UART port

Identifier	Configuration/MSP	Serial Rx	Telemetry Output	Sensor Input	Peripherals
USB VCP	<input checked="" type="checkbox"/> 115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART1	<input type="checkbox"/> 115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	VTX (IRC Tran AUTO
UART2	<input type="checkbox"/> 115200	<input checked="" type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART3	<input type="checkbox"/> 115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART4	<input type="checkbox"/> 115200	<input type="checkbox"/>	Disabled AUTO	GPS 115200	Disabled AUTO
UART5	<input type="checkbox"/> 115200	<input type="checkbox"/>	Disabled AUTO	Disabled AUTO	Disabled AUTO
UART6	<input type="checkbox"/> 115200	<input type="checkbox"/>	Disabled AUTO	ESC AUTO	Disabled AUTO

Connect VTX without FC



Documents / Resources

	<p>iFlight B011639 BLITZ 1.6W VTX LED Indicator [pdf] Instructions</p> <p>B011639 BLITZ 1.6W VTX LED Indicator, B011639, BLITZ 1.6W VTX LED Indicator, VTX LED I ndicator, LED Indicator, Indicator</p>
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