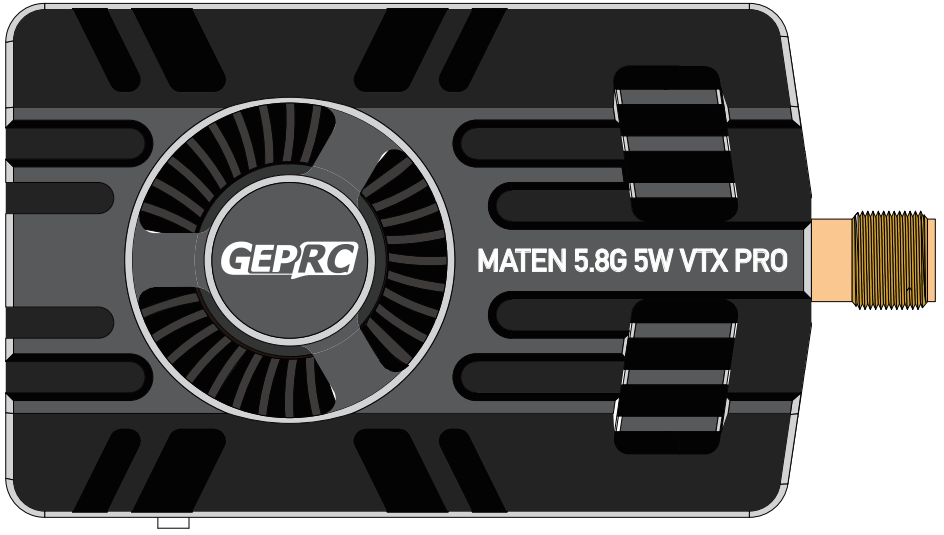
MATEN 5.8G 5W VTX PRO Manual

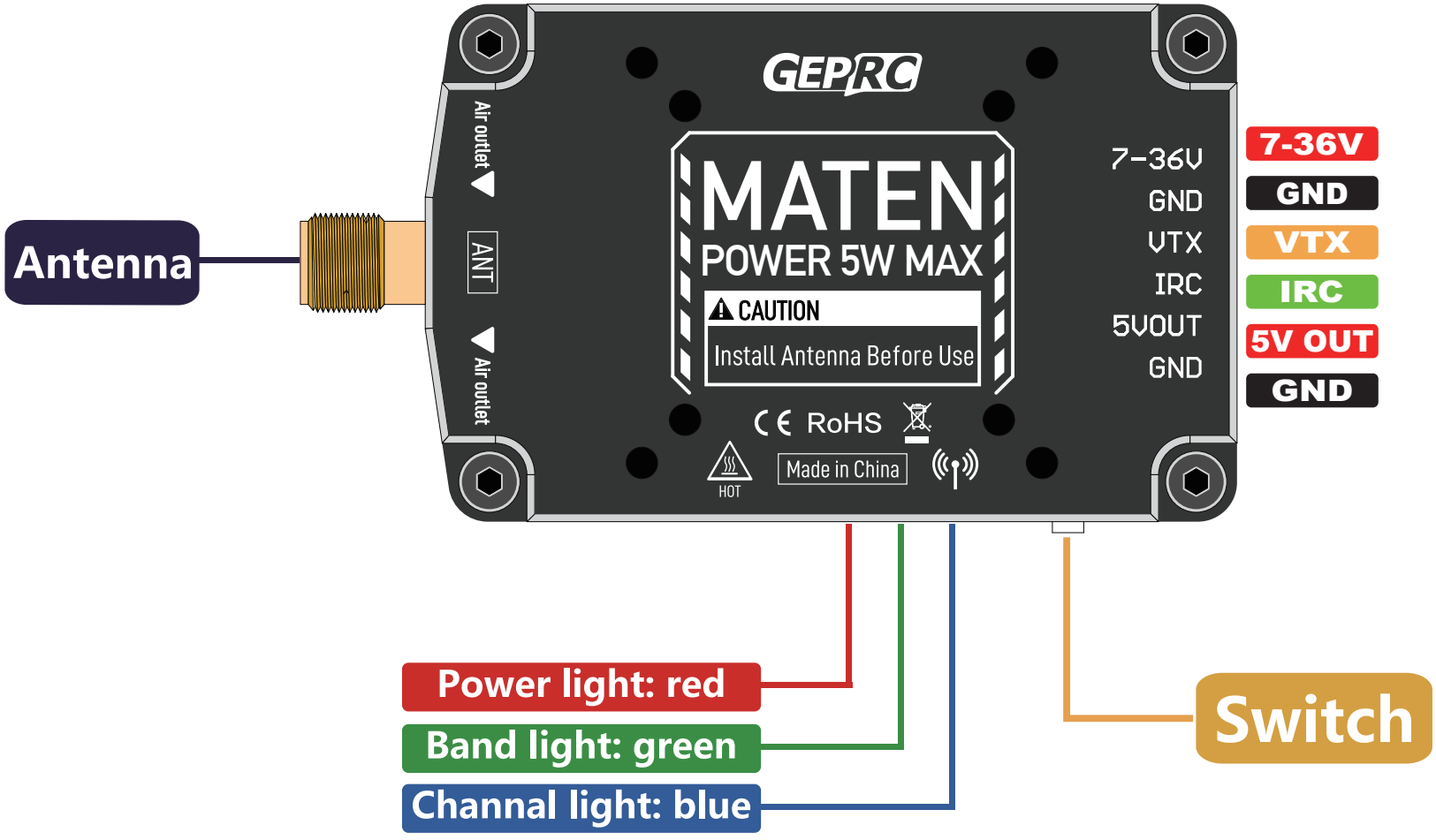
SPECS

Model :	GEPRC MATEN 5.8G 5W VTX PRO
Dimension:	60x33.2x19.1mm
Frequency band :	4884-6184MHz
Channel customer :	104CH
Cable interface :	sh1.25 6pin
Output voltage :	5V@600mA
Protocol :	IRC Tramp
Antenna interface :	SMA
Enter Frequency Directly :	Support
Input voltage :	DC7-36V（2-8S Battery）
Mounting hole :	20x20mm(M2)，25.5x25.5mm(M2)
Output power :	25mW/200mW/1600mW/5000mW/Pit mode

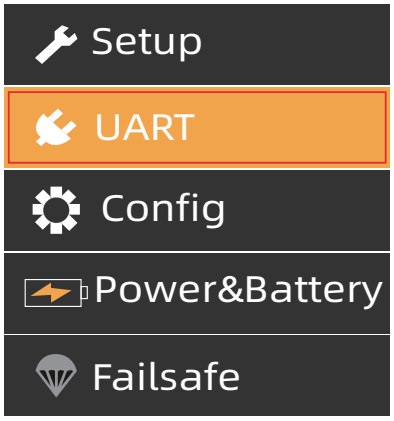


V2.0

Interface definition



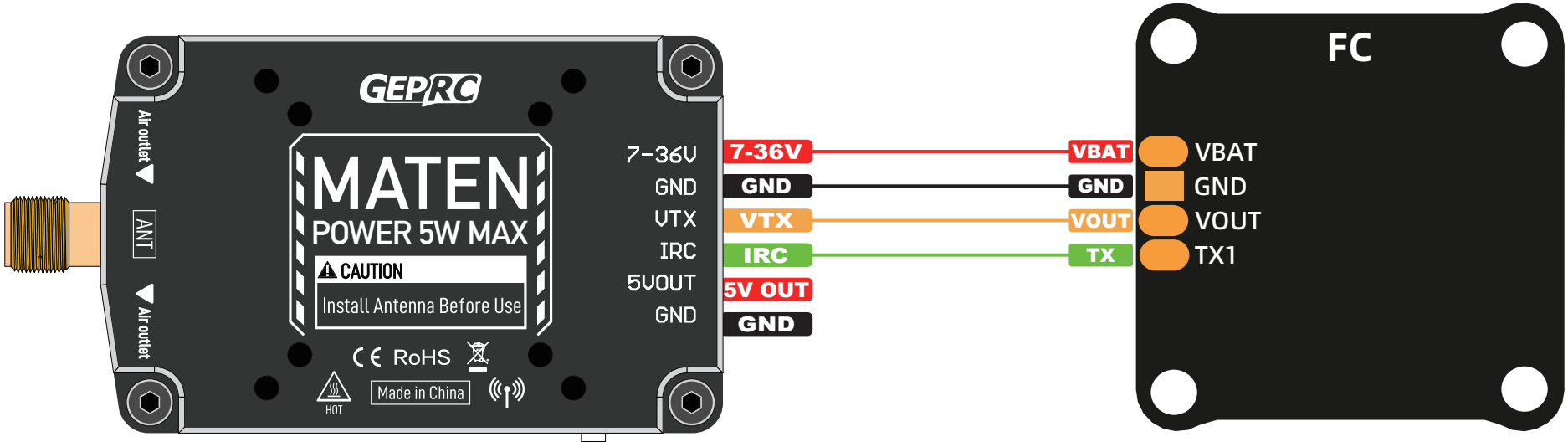
VTX IRC Setting



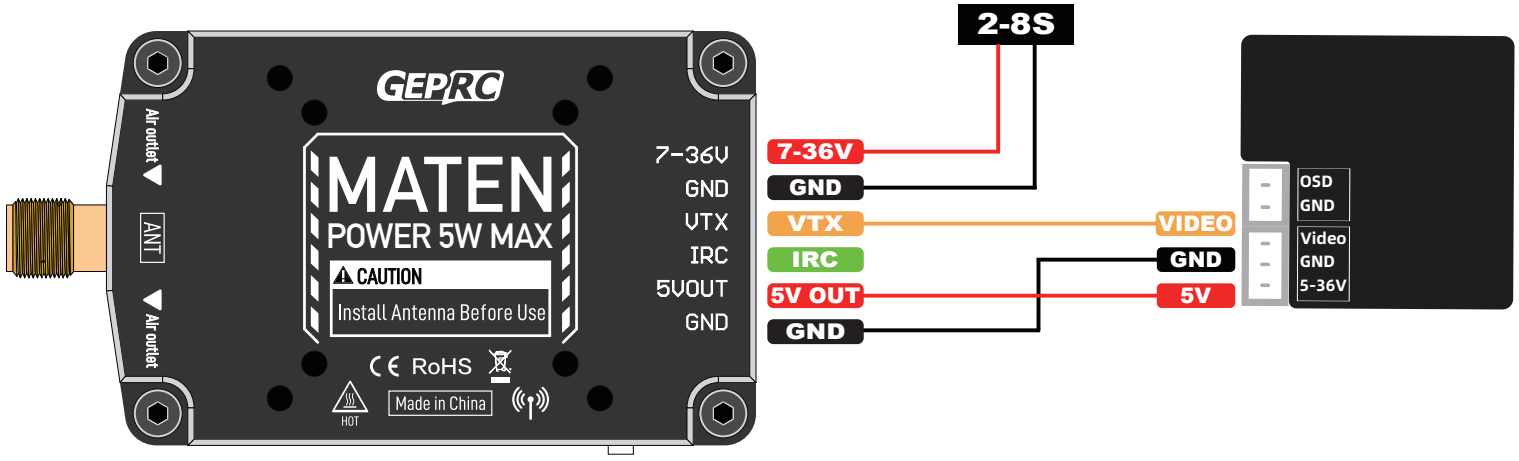
Identified		Peripherals	
USB VCP		Disabled	AUTO
UART1		VTX（IRC Tramp）	AUTO
UART2		Disabled	AUTO
UART3		Disabled	AUTO

Connect the sample:(One of two)

① The VTX is connected to the FC



② VTX connected to the camera (no OSD)



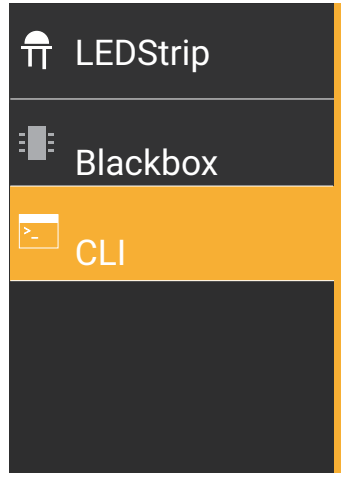
Frequency table:

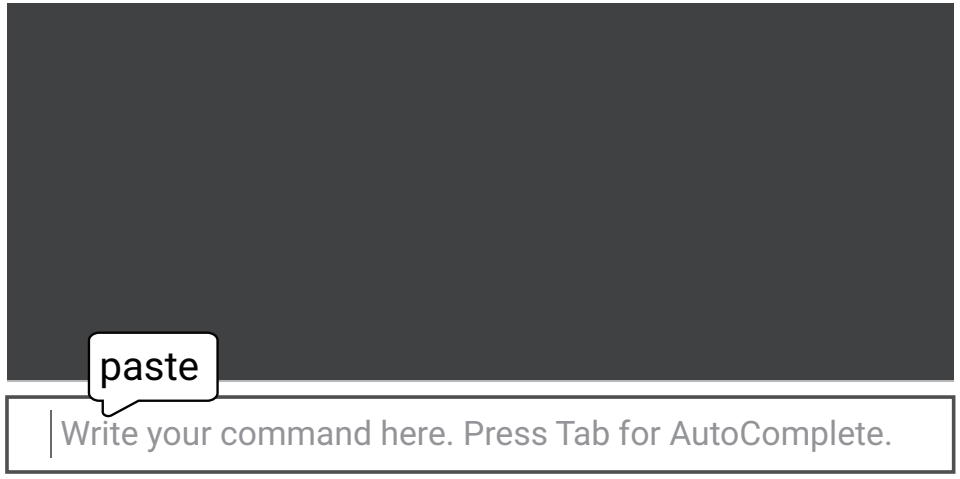
BAND \ CH	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
Band A	5865	5845	5825	5805	5785	5765	5745	5725
Band B	5733	5752	5771	5790	5809	5828	5847	5866
Band E	5705	5685	5665	5645	5885	5905	5925	5945
Band F	5740	5760	5780	5800	5820	5840	5860	5880
Band R	5658	5695	5732	5769	5806	5843	5880	5917
Band L	5362	5399	5436	5473	5510	5547	5584	5621
Band U	5325	5348	5366	5384	5402	5420	5438	5456
Band O	5474	5492	5510	5528	5546	5564	5582	5600
Band H	5653	5693	5733	5773	5813	5853	5893	5933
Band X	4990	5020	5050	5080	5110	5140	5170	5200
Band J	4884	4900	4921	4958	4995	5032	5069	5099
Band K	5960	5980	6000	6020	6040	6060	6080	6100
Band Z	6002	6028	6064	6080	6106	6132	6158	6184

Note: Map transmission supports 104 channels, if you want to use with the Betaflight configurator, due to the ground station, only 64 channels can be adjusted, you can delete the use

1. Scan the QR code below or Open the link by browser :
(https://geprc.com/electronics/vtx-table/) and Copy the CLI Dump's VTX table code.

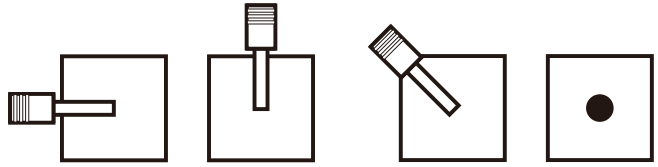
2.Open the Betaflight, Click on the “CLI “, Paste the codejust copied before, and click enter on the keyboard.





Tune the VTX using IRC

1. Turn on the remote control,THR middle,YAW left,PITCH up,enter the OSD menu.
2.The PITCH moves the cursor up and down, and the ELE right to enter the next item.Finally,save and exit.

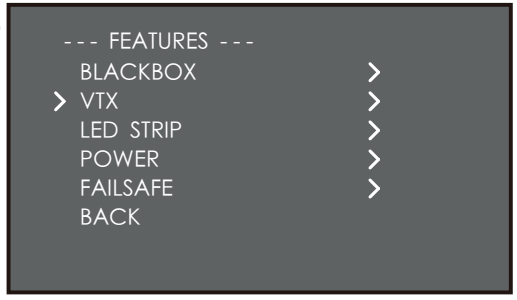


Model 1　　Model2

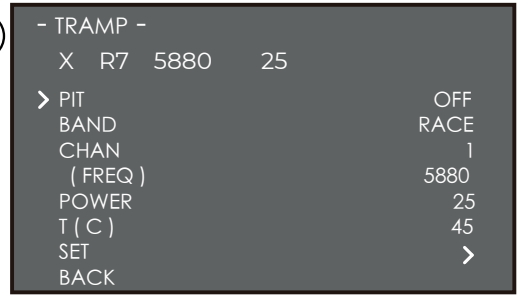
①



②



③



④



Use the buttons to adjust the VTX

1.Press and holding the button for 2 seconds,the blue light flashes,enter the frequency adjustment mode click quickly to switchfrequency points.

Frequency	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
Blue light	Flash 1X	Flash 2X	Flash 3X	Flash 4X	Flash 5X	Flash6X	Flash 7X	Flash 8X

2.After switching frequency points,press and hold the button 2-seconds again within five second,the green light flashes,enter the Band adjustment mode,click quickly to switch Band.

Band	Band A	Band B	Band E	Band F	Band R	Band L	Band U	Band O	Band H	Band X	Band J	Band K	Band Z
Green light	Flash 1X	Flash 2X	Flash 3X	Flash 4X	Flash 5X	Flash 6X	Flash 7X	Flash 8X	Flash 9X	Flash 10X	Flash 11X	Flash 12X	Flash 13X

3.After switching Band,press and hold the button 2-seconds againwithin five seconds,the red light flashes enter the power adjustment mode,and click quickly to adjust Power.

Power	25mW	200mW	1600mW	5000mW	PIT Mode
Red light	Flash 1X	Flash 2X	Flash 3X	Flash 4X	Keep

CAUTION

1. When using this product, please comply with local radio laws and. regulations,and use the local permitted frequency band and frequency.
2. To prolong the service life of the module, install the antenna before powering on the power.
3. Good heat dissipation can make the module run continuously under high power.
4. This product will produce high temperature when working, please do not touch directly with your hands to avoid scalding.
5. Longer transmission distance can be obtained by using high-quality antenna.

Contact:

Website: http://geprc.com

facebook
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Official website
www.geprc.com

instagram.com/geprc

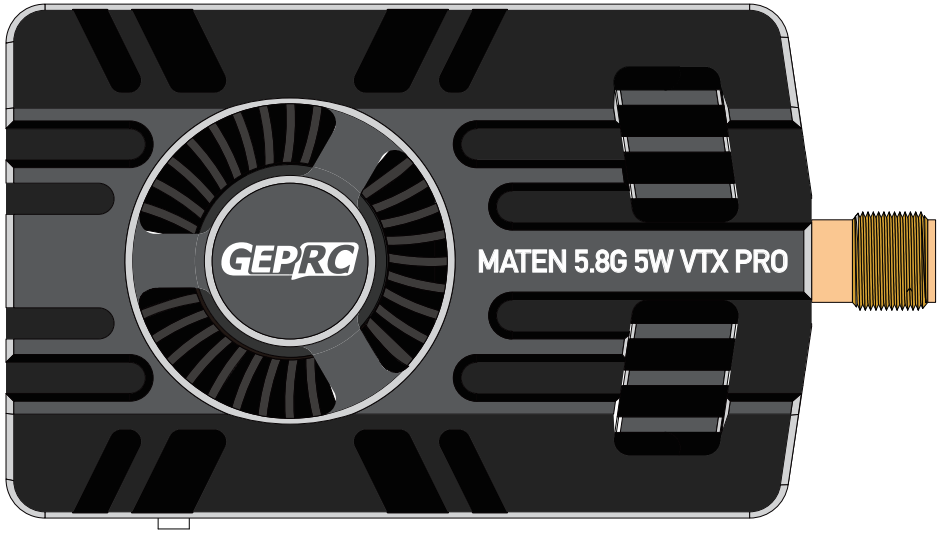
YouTube
youtube.com/geprc

Manual
geprc.com/support

MATEN 5.8G 5W VTX PRO 说明书

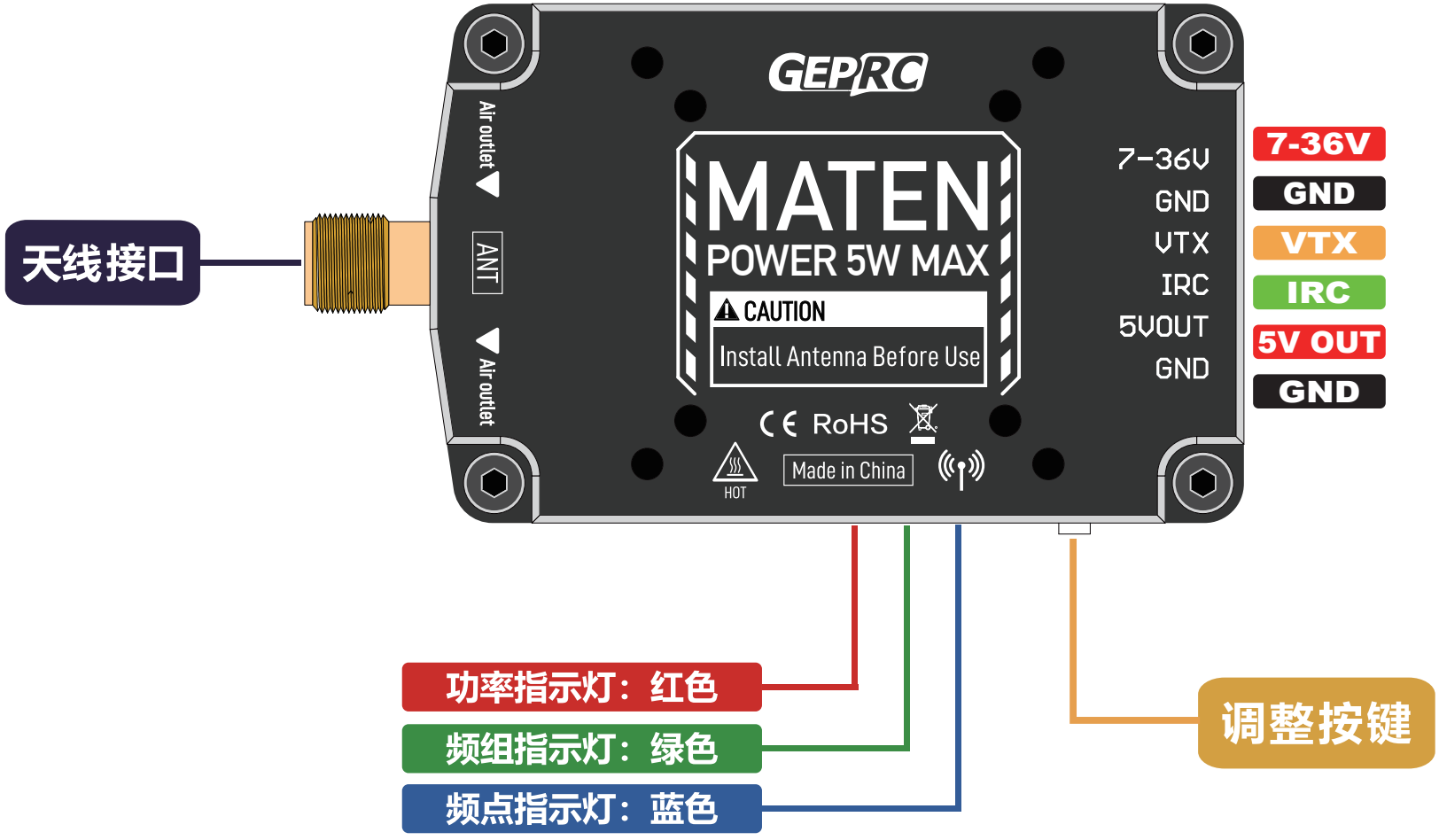
规格

产品名称:	GEPRC MATEN 5.8G 5W VTX PRO
尺寸:	60x33.2x19.1mm
频道数:	104CH
输入电压:	DC7-36V（2-8S Battery）
输出电压:	5V@600mA
控制协议:	IRC Tramp
天线接口:	SMA(外螺内孔)
排线接口:	sh1.25 6pin
频率:	4884-6184MHz
直接输入频率:	支持
安装孔位:	20x20mm(M2)、25.5x25.5mm(M2)
输出功率:	25mW/200mW/1600mW/5000mW/Pit mode



V2.0

接口定义


天线接口
GEPRC
MATEN
POWER 5W MAX
CAUTION
Install Antenna Before Use
Air outlet
ANT
Air outlet
RoHS
HOT
Made in China
7-36V
GND
VTX
IRC
5VOUT
GND
7-36V
GND
VTX
IRC
5V OUT
GND
功率指示灯：红色
频组指示灯：绿色
频点指示灯：蓝色
调整按键

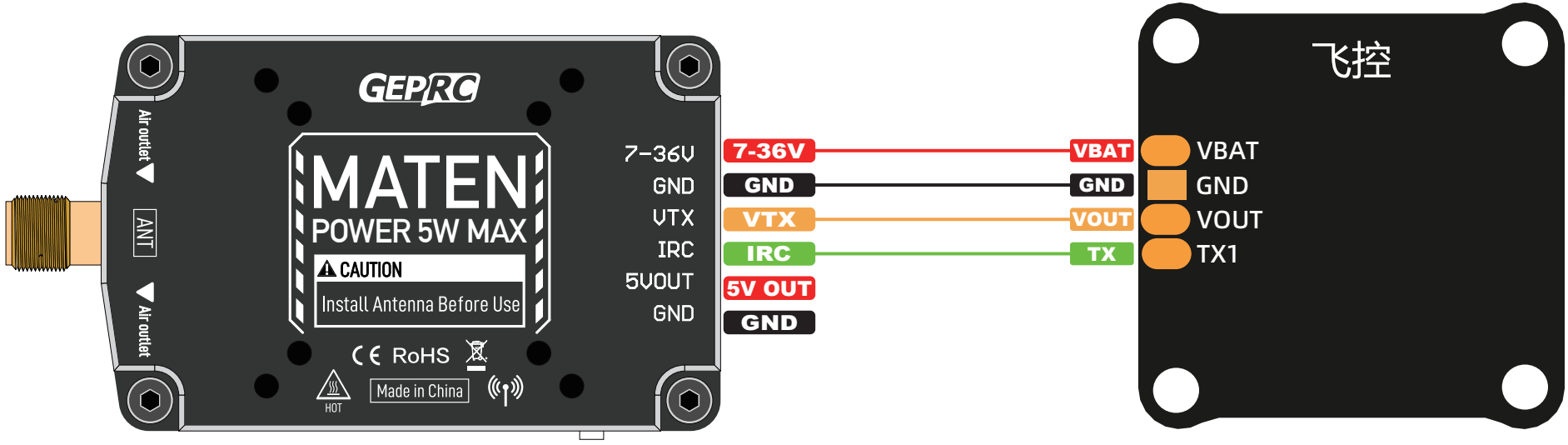
IRC端口设置



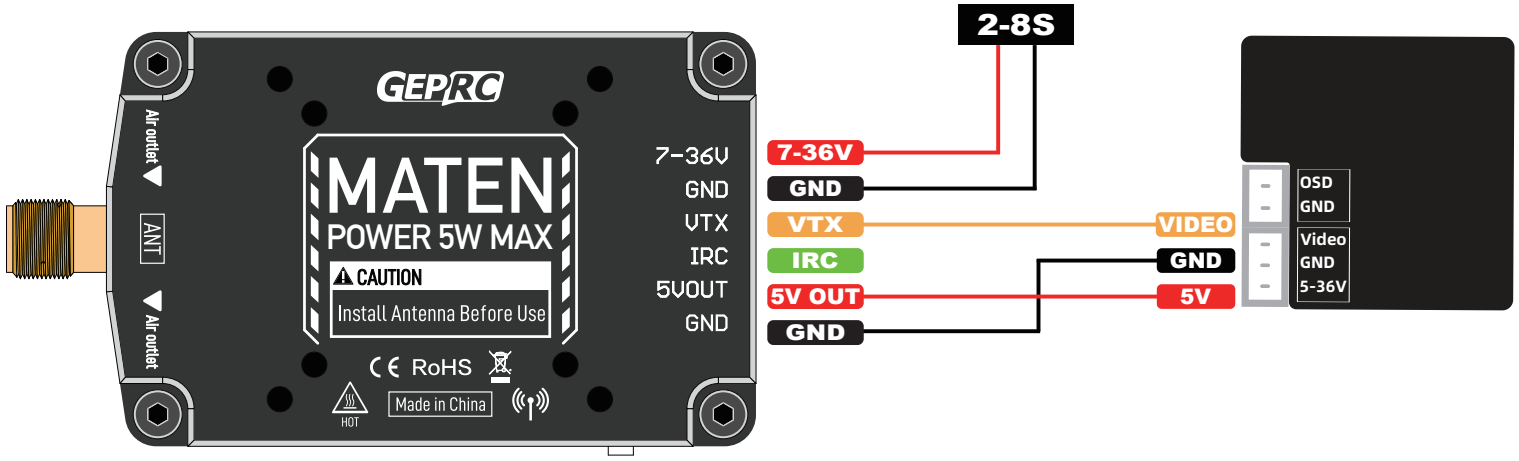
标识符	外设	
USB VCP	已禁用 ▼	AUTO ▼
UART1	图传（IRC Tramp）▼	AUTO ▼
UART2	Disabled ▼	AUTO ▼
UART3	Disabled ▼	AUTO ▼

连接示例(二选一)

① 图传连接到飞控上



② 图传连接到摄像头上（无OSD）



图传频率表：

BAND \ CH	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
Band A	5865	5845	5825	5805	5785	5765	5745	5725
Band B	5733	5752	5771	5790	5809	5828	5847	5866
Band E	5705	5685	5665	5645	5885	5905	5925	5945
Band F	5740	5760	5780	5800	5820	5840	5860	5880
Band R	5658	5695	5732	5769	5806	5843	5880	5917
Band L	5362	5399	5436	5473	5510	5547	5584	5621
Band U	5325	5348	5366	5384	5402	5420	5438	5456
Band O	5474	5492	5510	5528	5546	5564	5582	5600
Band H	5653	5693	5733	5773	5813	5853	5893	5933
Band X	4990	5020	5050	5080	5110	5140	5170	5200
Band J	4884	4900	4921	4958	4995	5032	5069	5099
Band K	5960	5980	6000	6020	6040	6060	6080	6100
Band Z	6002	6028	6064	6080	6106	6132	6158	6184

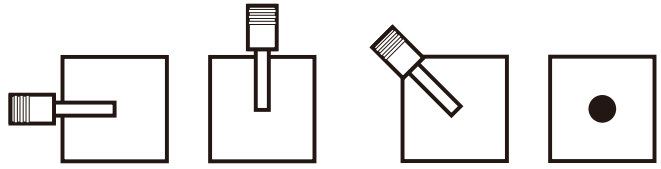
注：图传支持104个频点，如果要结合 Betaflight 地面站使用，因地面站的原因最多只支持可调64个频点，删减使用即可。

1. 扫描下方二维码 或打开浏览器输入网址:
（ https://geprc.com/electronics/vtx-table/ ） 复制里面的CLI图传表代码。
2. 打开betaflight，点击CLI（命令行），在下方输入框内粘贴刚刚复制的代码，在键盘上点击回车即可设置好图传表。



使用IRC调整图传

1. 开启遥控器，油门回中，方向摇杆推到最左，俯仰摇杆推到最顶，图传画面将会显示OSD菜单。
2. 俯仰摇杆上下控制光标移动，横滚摇杆向右推确定选项。最后保存设置退出。

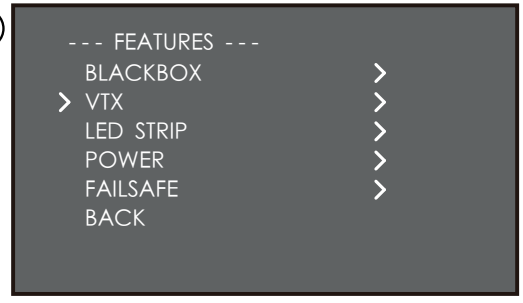


美国手　　日本手

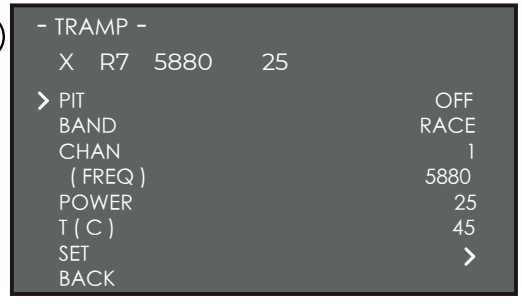
①



②



③



④



使用按键调整图传

1.长按2秒侧边按键，蓝灯闪烁，进入频点调整模式，短按切换频点。

频点	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
蓝色指示灯	闪烁1次	闪烁2次	闪烁3次	闪烁4次	闪烁5次	闪烁6次	闪烁7次	闪烁8次

2.切换好频点后，五秒内再次长按2秒按键，绿灯闪烁，进入频组调整模式，短按切换频组。

频组	Band A	Band B	Band E	Band F	Band R	Band L	Band U	Band O	Band H	Band X	Band J	Band K	Band Z
绿色指示灯	闪烁1次	闪烁2次	闪烁3次	闪烁4次	闪烁5次	闪烁6次	闪烁7次	闪烁8次	闪烁9次	闪烁10次	闪烁11次	闪烁12次	闪烁13次

3.切换好频组后，五秒内再次长按2秒按键，红灯闪烁，进入功率调整模式，短按切换功率。

功率	25mW	200mW	1600mW	5000mW	PIT Mode
红色指示灯	闪烁1次	闪烁2次	闪烁3次	闪烁4次	常亮

注 意

1. 使用本产品请遵守当地无线电法律法规，使用当地允许的频道频率。
2. 通电前请安装天线，以延长图传使用寿命。
3. 请在通风良好的环境下使用以保持高功率。
4. 图传工作时会产生高温，请勿用手直接触碰，以免烫伤。
5. 使用高品质天线可以延长图传的传输距离。

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