**200mW Power Adjustable 5.8G VTX 48CH**

**Main Features**

* Adjustable 4 modes:25mW/100mW/200mW/OFF
* Betaflight/Cleanflight OSD setting of power,bands,channels and PitMode
* Clean powerup and channel switching without interference to others
* PWM channel changes and PitMode setting
* Miniature and light weight design

**Specifications**

**Model: EWRF e7082TM**

* + Frequency: 5.8G 48CH
	+ Transmitting Power：25mW/100mW/200mW/OFF(Pitmode)
	+ Power supply：DC 6-25V
	+ Supply current：100mA（25mW）/150mA（100mW）/200mA（200mW）
	+ Antenna: Exclusive Dipole Whip
	+ Weight：3.5 g
	+ Dimension：28\*18.3\*5.5 mm

**User Guide**

 **1. Setting**

After power on, the digital display shows the following three parameters in turn: channel, band and power.Press and hold the button until the red dot appears on the right bottom of the digital display, which can be entered into the parameters setting.

* + When the digital display shows the Arabic numerals for the channel (1-8),press the button can select the channels.
	+ Press and hold the button again，the digital display will shows the alphabet for band(A-b-c-d-E-F), press the button can select the bands.
	+ Press and hold the button again，the digital display will shows the indication for power(H:200mW、U:100mW、L:25mW、-:OFF), press the button can select the power.
	+ Finally, press and hold the button,the red dot on the right bottom of the digital display will disappear.VTX is back to normal working state and the channel,band,power will display in turn on the digital display.

 **2. PWM/OSD setting**

* + When PWM port is connected with a RC receiver, it can been used to change AV channels 1-8 and to shut transmitting by a RC( PITMODE in effect). Make sure that there is a PWM signal from receiver within 3 seconds after powering up ,otherwise the transmitter is back to button-press setting mode . When in the setting mode of PWM, the red dot on the digital display will glow.
	+ For Betaflight/Cleanflight OSD setting of power,bands,channels and Pitmode ,please referring to ‘**EWRF 5.8G AV TX OSD Setting**’for details.

 **Frequency(Mhz)**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Band** | **CH1** | **CH2** | **CH3** | **CH4** | **CH 5** | **CH6** | **CH7** | **CH8** |
| A | 5865 | 5845 | 5825 | 5805 | 5785 | 5765 | 5745 | 5725 |
| b | 5733 | 5752 | 5771 | 5790 | 5809 | 5828 | 5847 | 5866 |
| c | 5705 | 5685 | 5665 | 5645 | 5885 | 5905 | 5925 | 5945 |
| d | 5740 | 5760 | 5780 | 5800 | 5820 | 5840 | 5860 | 5880 |
| E | 5658 | 5695 | 5732 | 5769 | 5806 | 5843 | 5880 | 5917 |
| F | 5362 | 5399 | 5436 | 5473 | 5510 | 5547 | 5584 | 5621 |

**Note:** 1.Make sure that there is enough space for airflow when installing the module on the drone in case the overheating protection starts to reduce the power even to shut down at the worst.

 2. Please install the antenna before powering up for a longer use life.

 3. .The maximum current of output DC 5V is 300mA.

**200mW可调功率5.8G 48H图传发射器**

**主要特性**

* 25mW/100mW/200mW及发射关闭（PitMode）可调
* 支持Betaflight/Cleanflight飞控OSD配置图传参数
* 零干扰上电和切换信道，绝对不会干扰其他用户
* 支持PWM切换信道和开关PitMode模式
* mini数码管显示，轻重量设计

**发射机参数**

* 工作频率：5.8G
* 工作频道：48CH
* 发射功率：25 mW /100 mW /200mW/发射关闭（PitMode）
* 工作电压：DC 6-25V
* 工作电流100mA（25mW）/150mA（100mW）/200mA（200mW）
* 天线：铜柱天线
* 重量：3.5克
* 体积：28\*18.3\*5.5 mm

**使用说明**

**1、按键配置**

 上电后数码管上依次显示信道频点、信道组、功率三种参数。此时长按按键，数码管右下脚会显示红点，即标示进入调参状态。

* 当数码管显示阿拉伯数字信道频点（1、2、3、4、5、6、7、8）时，短按可以调信道频点；
* 再长按显示字母为信道组（A、b、c、d、E、F）时，短按可以调信道组；
* 再长按显示为功率指示（H:200mW、U:100mW、L:25mW、-:关闭）时，短按可以调功率；
* 最后长按恢复模块正常工作模式，右下角小红点消失（信道频点、信道组和功率会循环显示）。

 **2、PWM/OSD配置**

* 如PWM线接入接收机通道，需要3s内有信号，此时数码管中的小数常亮，这时可以用遥控器配置信道号1-8和关闭图传发射；否则，3s后自动进入按键配置模式，数码管中小数点不显示；
* e7082TM同时支持Betaflight OSD调参方式调整信道、发射功率和PitMode模式，具体请参照“**EWRF 5.8G图传发射OSD调参使用说明**”

 **注意：1、切记在图传安装时一定要为风的流动留有空间，保证散热；否则过热保护启动后会降低发射功率甚至关闭发射；**

 **2、建议先拧上天线后再通电使用以延长模块使用寿命；**

 **3、模块5v输出供电的最大电流为300mA。**