

OddityRC Red Giant 5.8G 2.5W VTX

Features:

- 1.Automotive-grade components provide extremely strong reliability.
- 2.Using digital phase-locked loop circuit, no temperature drift.
- 3.High speed silent cooling fan and aluminum shell provides efficient heat dissipation.
- 4.Compact but can provide high transmission power.

Speifications:

Power levels: PIT/250mW/650mW/1000mW/1600mW/2000mW/2500mW

Mounting pattern:20*20mm/Φ1.6mm

Dimensions:41*30*13mm

Interface:MMCX

Cable:SH1.0 6P

VTX telemetry: /

Channels:64CH

Power levels: 7

Working current with 12V input: 700mA-900mA

Max working power: 10W

Output power: >34dbm(2.5W)

Weight:22g

Ports:

DC-IN:2-8S, 7-36V Positive Input(12V is recommended)

GND:Ground

Video: Video signal input

DATA: TBS Smartaudio Control

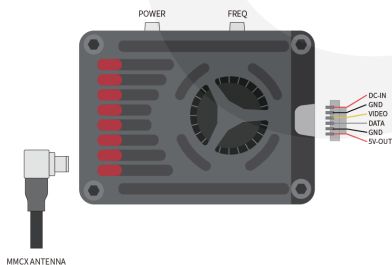
GND: Ground

5V-OUT: 5V voltage output

Attention:

- 1.Please read the instruction manual for proper wiring before installation.
- 2.Make sure that the antenna has been properly installed before powering on, otherwise the VTX will be irreversibly damaged.
- 3.Consider the air flow around the VTX during installation, otherwise the power will be reduced.

Wiring Diagram:



Frequency table:

VTX Table										
8		Number of bands		8		Number of channels by band				
Name	Letter	Factory	1	2	3	4	5	6	7	8
A			5865	5845	5825	5805	5785	5765	5745	5725
B			5733	5752	5771	5790	5809	5828	5847	5866
E			5705	5685	5665	5645	5625	5605	5585	5565
F			5740	5760	5780	5800	5820	5840	5860	5880
R			5658	5695	5732	5769	5806	5843	5880	5917
L			5362	5399	5436	5473	5510	5547	5584	5621
V			5975	5955	5935	5895	5875	5835	5715	5675
C			5635	5600	5565	5530	5490	5455	5420	5380
Band 1										
Band 2										
Band 3										
Band 4										
Band 5										
Band 6										
Band 7										
Band 8										
4										
Number of power levels										
1	2	3	4							
0	1	2	3	Value						
0	0.8	1.6	2.5	Label						

FC Setup:

enable the corresponding VTX(TBS Smartaudio) on UART port

Ports										
Note: read the configuration after the flight controller is connected to the VTX and the VTX is powered on. The VTX will be in the FC setup mode when you are doing the FC setup. You may need to reset the VTX if you are not sure.										
Port	Mode	Power	Frequency	Channel	Channel	Channel	Channel	Channel	Channel	Channel
UART1	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART2	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART3	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART4	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART5	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART6	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART7	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART8	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART9	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART10	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART11	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART12	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART13	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART14	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART15	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART16	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART17	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART18	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART19	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART20	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART21	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART22	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART23	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART24	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART25	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART26	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART27	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART28	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART29	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART30	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART31	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART32	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART33	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART34	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART35	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART36	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART37	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART38	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART39	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART40	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART41	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART42	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART43	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART44	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART45	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART46	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART47	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART48	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART49	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART50	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART51	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART52	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART53	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART54	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART55	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART56	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART57	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART58	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART59	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART60	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART61	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART62	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART63	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
UART64	UART	300	19200	300	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled

Button Operation:

1.Channel button

By pressing the frequency button you can cycle through the 64 frequency bands.

2.Power button

short press the power button, the LED light will change in different colors to indicate different output power level.

First, press the power button several times to turn off all the lights. This is PIT mode.Then press the power button again and the power level will increase.The maximum power level is 6(2500mW) and after that it will bo back to PIT mode.

Packing List:

