

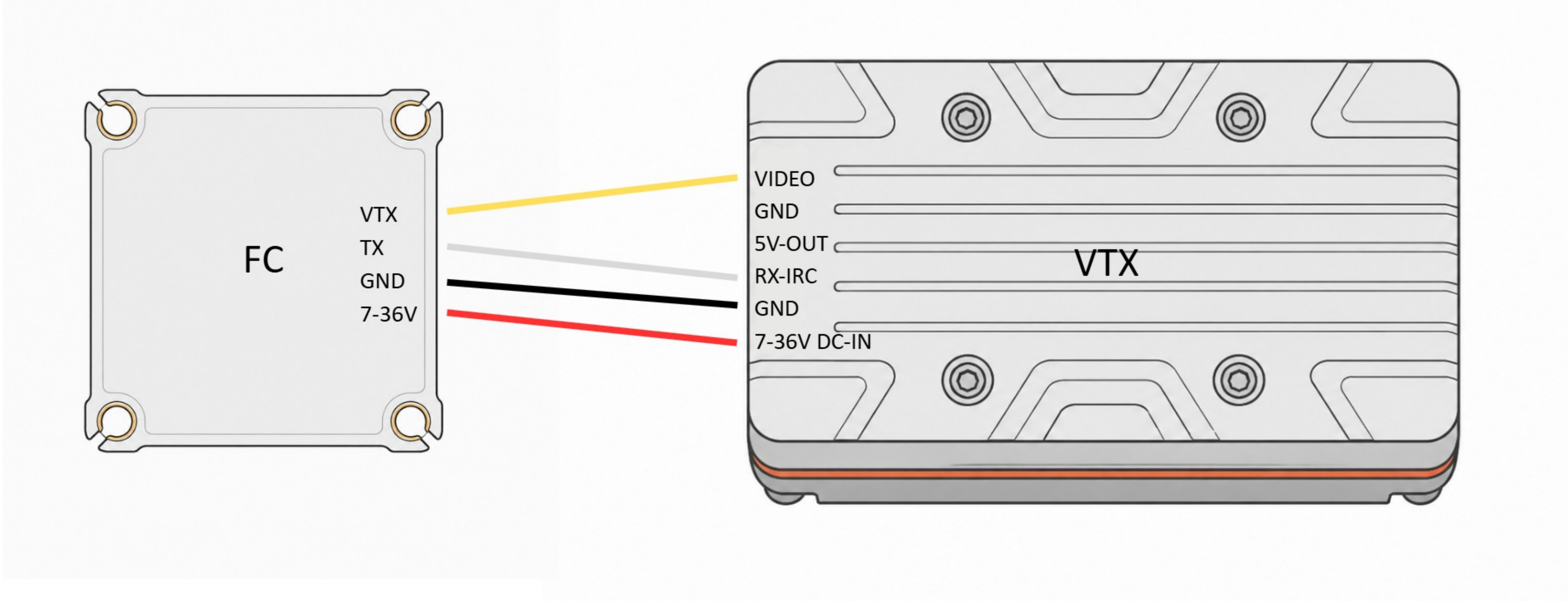


Pilotix R2500 5.8G video transmitter for FPV applications operating in the 5.8 GHz frequency band with 48 channels across A, B, E, F, R, and L bands. Features selectable output power levels of 25mW and 2.5W with IRC Tramp protocol support. Accepts input voltage from 7V to 36V (2S-8S) and utilizes an MMCX antenna interface with 75 ohm RF impedance. Supports PAL and NTSC video formats. Equipped with built-in fan cooling, three-color indicator light, and two buttons. Measures 39.2 x 29 x 12 mm with 25.5 x 25.5 mm M2 mounting pattern and weighs 16.5g. Operates in temperatures from -20°C to 40°C at 20-95% RH non-condensing.

Product details	
Model	R2500 5.8G 2.5W
SKU	4138
Electrical specification	
Antenna interface	MMCX
Channels	48 CH
Frequency range	5.8 GHz
Input voltage	7 - 36 V (2S - 8S)
Output power	≤ 2.5 W
Power levels	25mW, 2.5W
Protocol	IRC Tramp
RF impedance	75 Ω
Supported bands	A, B, E, F, R, L
Video format	PAL, NTSC
Mechanical specifications	
Buttons	2
Cooling	Built-in fan
Indications	Three color light
Mounting	25.5 x 25.5 mm (M2)

Dimension	39.2 x 29 x 12 mm
Weight	16.5 g
Operating conditions	
Humidity range	20-95% RH (non-condensing)
Operating temperature	-20 - 40 °C
Storage temperature	-30 - 50 °C
Common	
Package contents	1 x JST SH 1.0mm 6-Pin, 1 x MMCX antenna , 1 x Pigtail adapter MMCX to SMA
Warranty	2 years

Wiring diagram



VTX table

FR/CH	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
A	5865	5845	5825	5805	5785	5765	5745	5725
B	5733	5752	5771	5790	5809	5828	5847	5866
E	5705	5685	5665	5645	5885	5905	5925	5945
F	5740	5760	5780	5800	5820	5840	5860	5880
R	5658	5695	5732	5769	5806	5843	5881	5917
L	5362	5399	5436	5473	5510	5547	5584	5621