

10W-7.2 G Video Transmission VTX



Welcome

6.1-7.2GHz 64CH 10W VTX

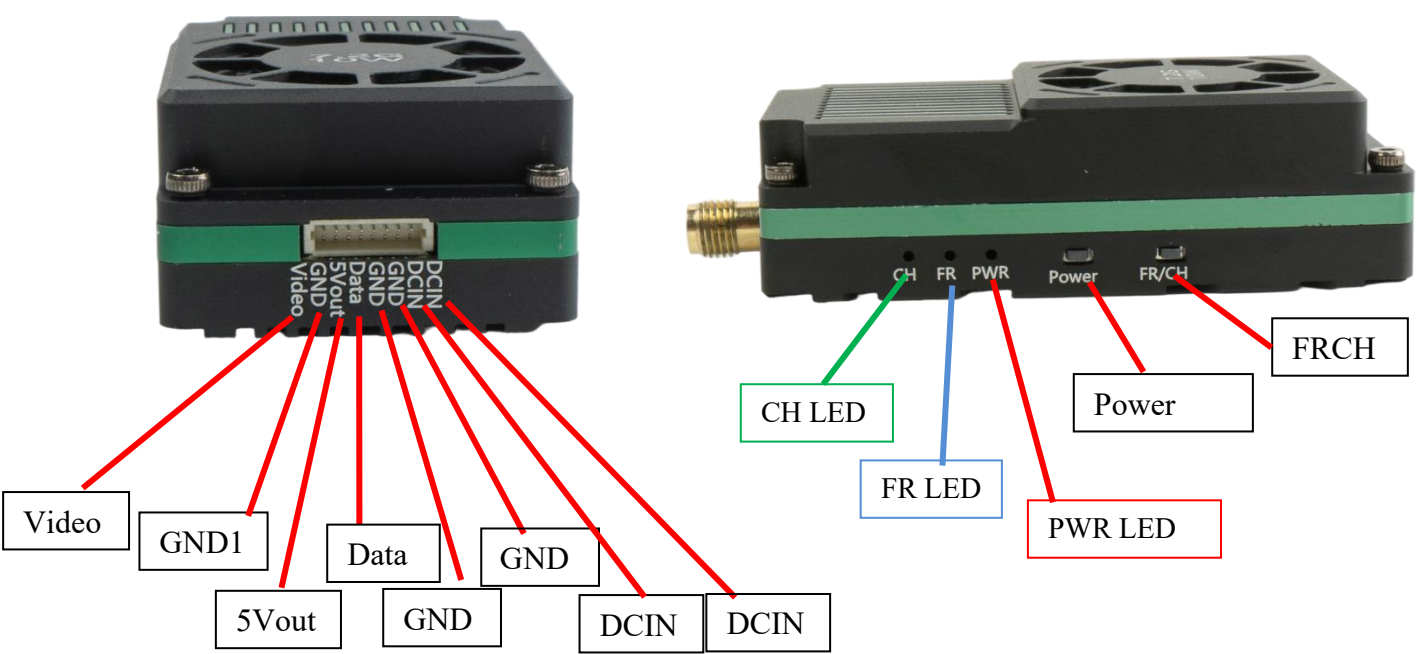
I. Product Parameters

Project	Specifications
Working voltage :	DC 7-36V
Working current:	2.6A@12V
Operating ambient temperature :	-10~65℃
Weight :	50g (excluding the antenna)
Outline dimension :	64mm*34mm*19.5mm
Installation hole position:	20mm × 20mm spacing, with built-in M2 threaded holes 30.5mm × 30.5mm spacing, with built-in M3 threaded holes
Number of channels:	64CH
Frequency range :	6100~7200MHz
Output power :	500mW 、 2W 、 5W、 10W
Control protocol :	IRC Tramp supports OSD parameter tuning
Modulation type:	FM frequency modulation
Channel bandwidth :	8MHz
Antenna interface:	SMA (external thread, internal hole)
Video format:	NTSC/PAL

II. Product Features

● Supports wideband operation from 6.1G to 7.2G
● Button/IRC control for quick CH and power adjustment
● Radio frequency crystal for automotive-grade temperature range with enhanced frequency stability
● All-metal CNC housing with dustproof and explosion-resistant properties, excellent heat dissipation, and stable power output
● Fast frequency locking ensures smooth startup without interfering with other devices
● High output power, stable output power, and long transmission range

III. Interface Function Definition and Operation Instructions



Interface	Functional description
Video	Video signal input: Connected to the flight control video signal output (the VTX of the flight controller)
GND1	Ground wire: Connect to the camera's negative terminal (may be removed if not needed)
5Vout	5V power output: Connect to the camera's positive terminal to provide 5V power (may be removed if unnecessary)
Data	Image transmission control signal input: Connect to the UART TX interface of devices such as flight controllers, and enable the IRC control protocol to regulate parameters including transmission frequency, band, and power.
GND	Connect the negative terminal of the power input to the device's ground terminal (GND).
DCIN	Power input positive terminal, DC 7V–36V.
POWER:	Power adjustment button ➤ Short press to adjust power, cycling between four levels: 500mW, 2W, 5W, and 10W. ➤ Double-click to enter PIT mode (repair station mode; video output power is extremely low—avoid enabling it). ➤ Long press to lock/unlock the image transmission power and frequency buttons (to prevent accidental touches)
FRCH:	Frequency Group/Channel Adjustment Button ➤ Short press to change channels, cycling between CH1–CH8 ➤ Hold down for 3 seconds to enter frequency group switching mode (the blue light flashes independently); a short press again changes the frequency group.
PWR LED:	Power indicator light: Red (the number of flashes indicates the power level) ◆ Red light off: indicates entry into PIT mode ◆ The red light remains on: indicates that the video transmission power and frequency buttons are locked.
CH LED:	Channel indicator light: Green (flashes to indicate channel CH)
FR LED:	Band indicator light: Blue (indicates the number of flashes for the Band)

IV. Frequency Table

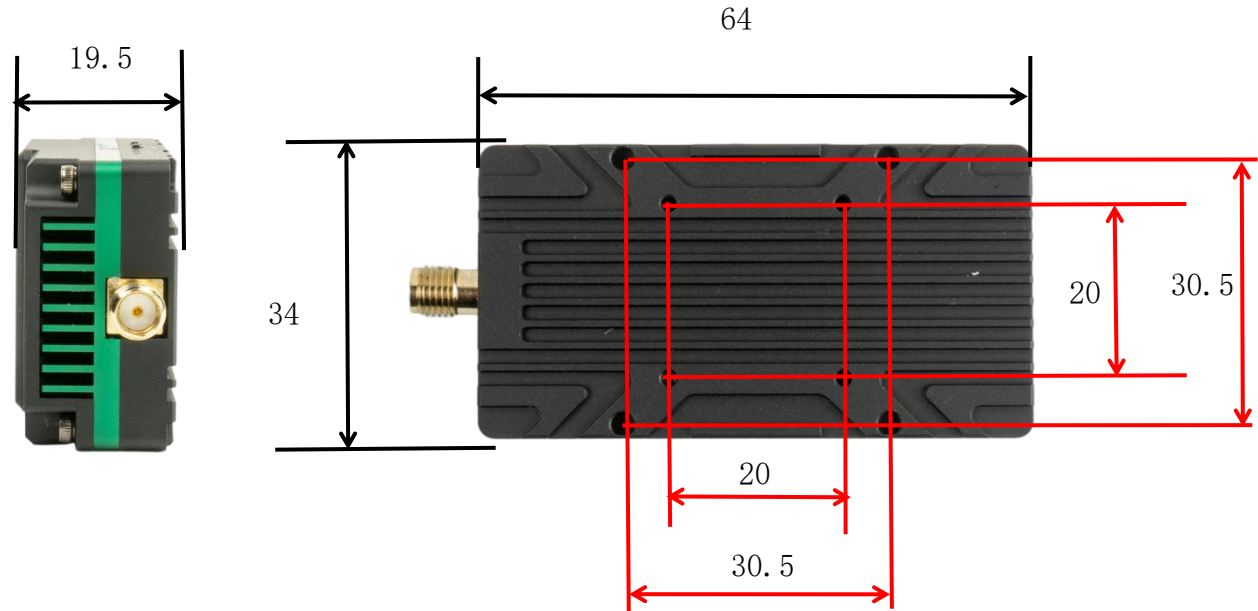
1. Power and indicator light status (PWR LED flash rate)

Red LED cycles and flashes	Extinct	Always On	Flash 1 time	Flash 2 times	Flash 3 times	Flash 4 times
Power Level	PIT	Lock Key	500mW	2W	5W	10W

2. Frequency group, channel, and indicator light status (LED flash rate)

CH and indicator light FR and indicator light		Channel (unit: MHz) Indication light (green LED)							
Group indicator light (blue): FR LED flashing indicator		CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
		Flash 1 time	Flash 2 times	Flash 3 times	Flash 4 times	Flash 5 times	Flash 6 times	Flash 7 times	Flash 8 times
LED flashes once	Band A	6110	6130	6150	6170	6190	6210	6230	6250
LED flashes twice	Band B	6270	6290	6310	6330	6350	6370	6390	6410
LED flashes 3 times	Band E	6430	6450	6470	6490	6510	6530	6550	6570
LED flashes 4 times	Band F	6590	6610	6630	6650	6670	6690	6710	6730
LED flashes 5 times	Band R	6750	6770	6790	6810	6830	6850	6870	6890
LED flash 6 times	Band H	6910	6930	6950	6970	6990	7010	7030	7050
LED flash 7 times	Band L	7070	7090	7110	7130	7150	7170	7190	7210
LED flash 8 times	Band U	6115	6265	6425	6585	6745	6905	7065	7185

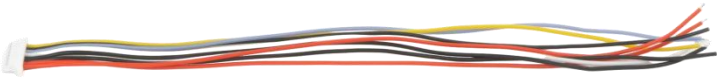
3. Installation Dimension Diagram



V. Notes:

1. If the data cable is already connected to the flight controller's TX, the buttons will not function.

VI. Accessories List (See Attached Diagram)

1. Terminal cable 8P terminal cable, length 150 mm $\pm$ 3 mm	
2. Mushroom-shaped antenna 7.2G frequency band, intermediate connecting cable: 140 mm $\pm$ 3 mm	