AirLinK-T

3.0-3.8GHz 10W VTX Video Transmitter
MODEL: AL3310



Key Features

- With an ultra-wide frequency range spanning 3060–3840 MHz and support for 80 channels, it offers exceptional flexibility for diverse operating environments.
- Ultra-Lightweight: Weighs only 36.8g with a compact thermal design that sustains stable maximum power output.
- High-Efficiency RF: Next-gen fully integrated on-chip PA delivers broad frequency range with superior RF performance.
- Precision Control: Proprietary digital PLL plus fully closed-loop detection ensures accurate frequency tuning and flat power response.
- Quality Assurance: Full aging and power calibration processes applied to every unit, ensuring exceptional batch-to-batch consistency.

General Characteristics

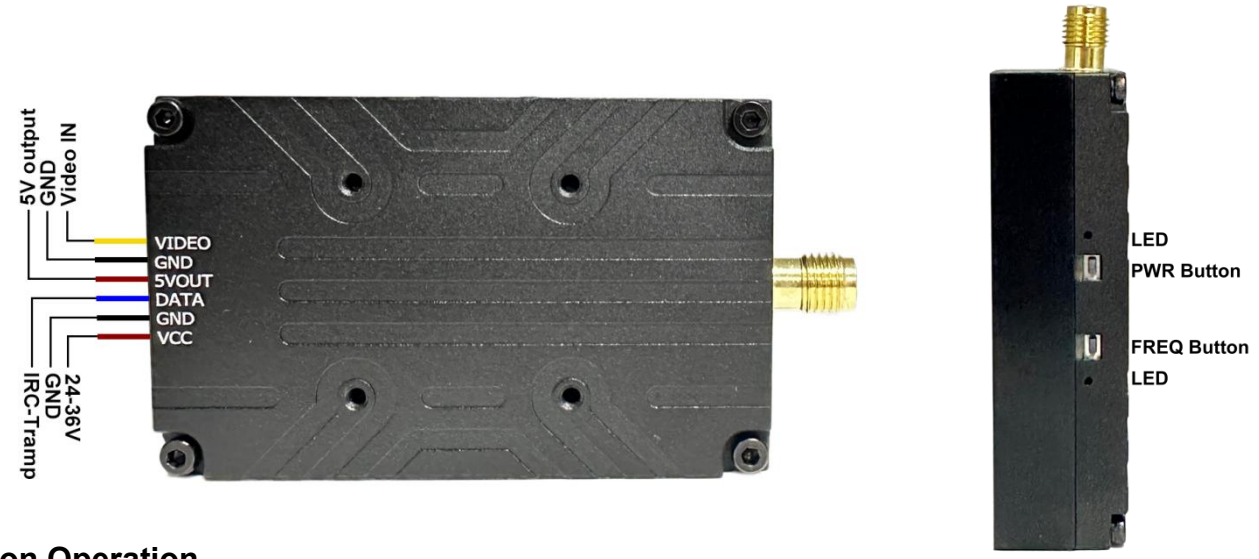
Frequency band	3060-3840MHz	RF power	PIT/2.5W/5W/7W/10W
Channel	80 CH	Power Supply	DC 12-36V
Modulation	FM	Frequency precision	±200KHz (Typ.)
Frequency control	PLL	Video input level	1V±0.2Vp-p (typ.)
Control Protocol	IRC Tramp	S/N(For ±3MHz)	>55dBc
Dimension	58*36*16mm	Operating Temperature	-10℃~+70℃
Hole	20*20mm	Weight	36.8g

Frequency table

BAND	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
Band A	3060	3080	3100	3120	3140	3160	3180	3200
Band b	3083	3114	3145	3176	3207	3238	3269	3300
Band C	3215	3235	3255	3275	3295	3315	3335	3355
Band d	3170	3190	3210	3230	3250	3270	3290	3310
Band E	3320	3345	3370	3390	3420	3445	3470	3495
Band F	3310	3330	3355	3380	3405	3430	3455	3480
Band H	3330	3350	3370	3390	3410	3430	3450	3470
Band L	3360	3380	3400	3420	3440	3460	3480	3500
Band n	3520	3540	3560	3580	3600	3620	3640	3680
Band u	3700	3720	3740	3760	3780	3800	3820	3840

RF Power

Value	1	2	3	4	5
Power level	PIT	2.5W	5W	7W	10W
Gain	25dBm	34dBm±0.5	37dBm±0.5	38.5dBm±0.5	40dBm±0.5



Button Operation

Channel select mode:
Short press channel button, enter CHANNEL setup, LED on and flash, select channel by short click.
Band select mode:
Continue press the button for 3s, enter BAND setup, LED on and flash, select band by short click.
Power select mode:
Short press power button, enter POWER setup, LED on and flash, select power by simple short presses.
For setup via the flight controller, connect the DATA pin and use the IRC Tramp protocol.

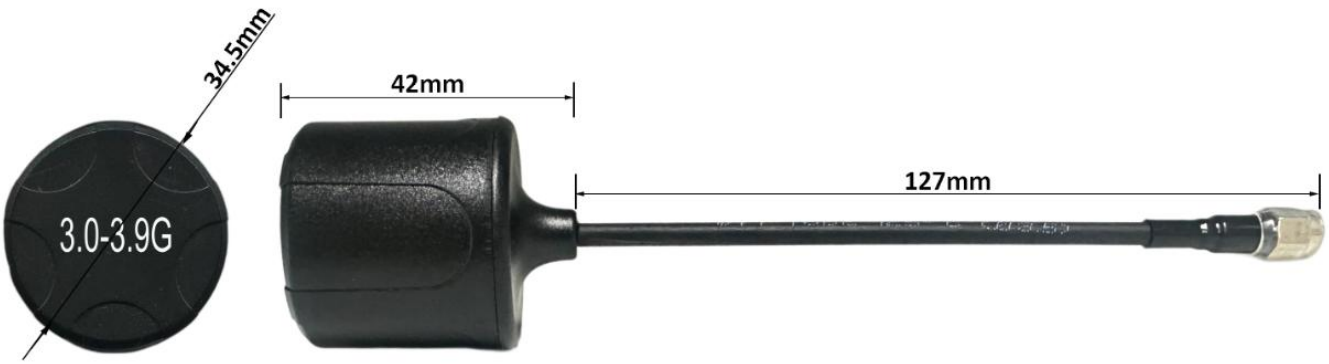
Attention

Antenna must be connected before use! Otherwise there is a risk of damage to the product.

The product needs to be mounted reliably, avoiding vibration and high temperatures.

The product has a built-in power filter, but still need to avoid excessive power supply interference.

Antenna



Bandwidth	3000-3900 MHz	Gain	5 dBi
V.S.W.R	＜1.5	Polarization	RHCP
Radiation pattern	Omni-directional	Impedance	50 Ω
Connector	SMA Male	Cable	RG141 semi-steel