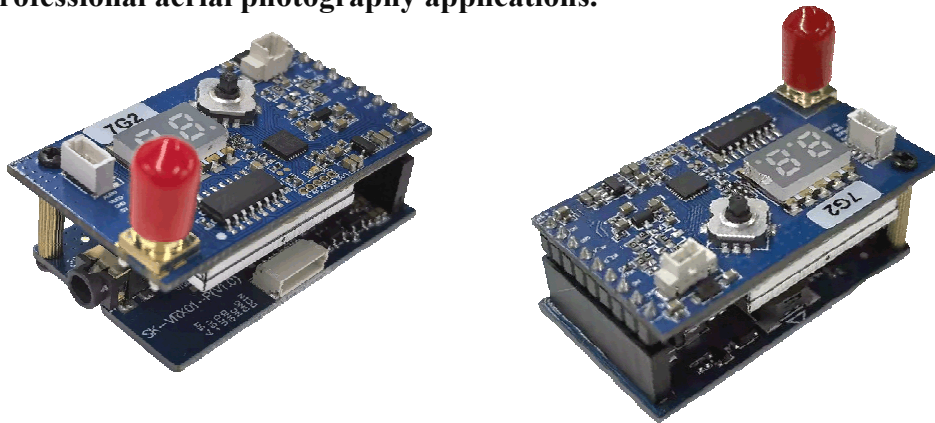


VRX-F12-7G Video Receiver

(6.1G~7.2G, 64CH)

The VRX-F12-7G is a 6.1G~7.2G FPV analog video receiver that outputs CVBS signals compatible with a wide range of display terminals, including Fat shark goggles, SKYZONE goggles, DJI Goggles V1/V2 and analog monitors. It also supports simultaneous external DVR connection for video signal output. Boasting low latency and strong anti-interference performance, this receiver is widely used in FPV drone flight, outdoor recreation, racing competitions and professional aerial photography applications.

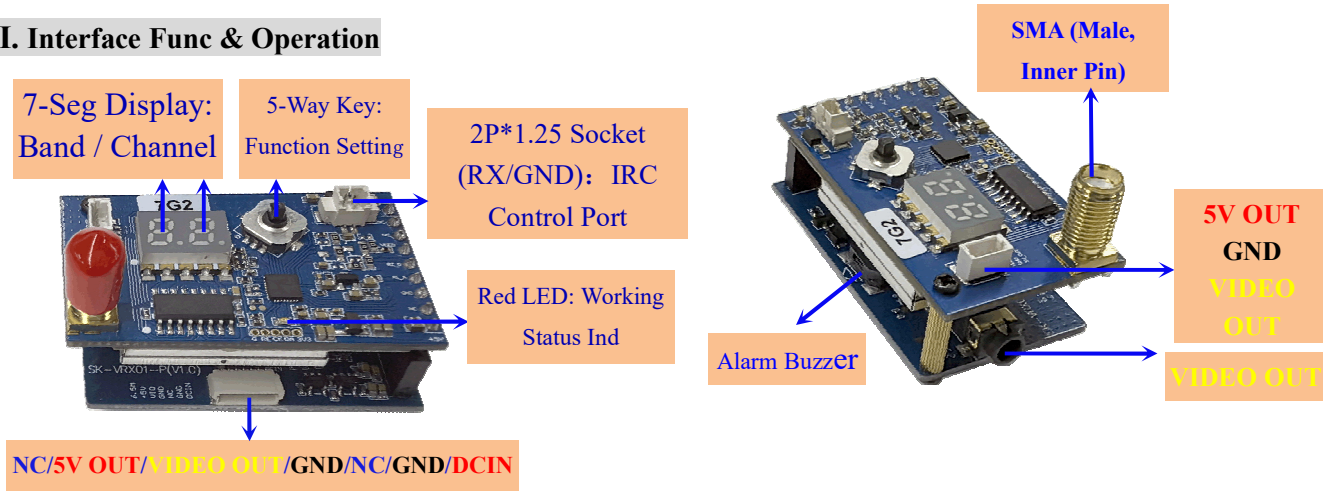


I. General Characteristics

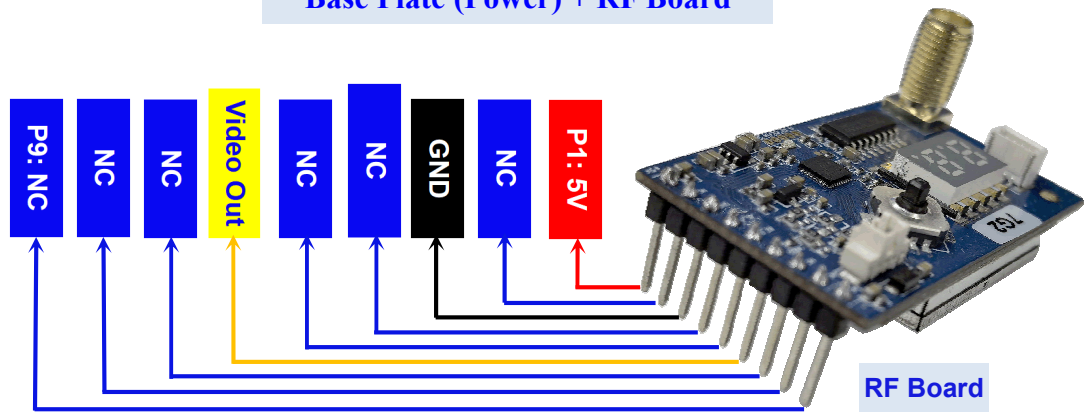
Item	SPEC.
Input Voltage	DC 7V~28V (2~7S)
Current Consumption	295 ± 30mA @DC 12V
Output Voltage	5V ± 0.5V Output (MAX 500mA > 7.2V)
Channel customer	64CH (6110MHz ~ 7210MHz)
Receiver Sensitivity	-96dBm ± 2dBm
Modulation type	FM
Frequency control	PLL
Frequency Stability	±100KHz (Typ.)
Frequency precision	±200KHz (Typ.)
S/N (Fo ± 3)	>70dBc
Antenna Port	50 Ohms
Ant. Interface	SMA (Male, Inner Pin)
Video Std.	PAL / NTSC

Video input level	1V ± 0.2Vp-p type
Video Signal Fmt.	CVBS
Operating Temperature	-10°C~+60°C
Profile dimension	48mm * 27mm * 20mm (Excluding SMA)
Weight	20.5g (Base Plate Included, Antenna)

II. Interface Func & Operation



Base Plate (Power) + RF Board



Connector	Func. Description
SMA	Antenna Signal Output Port (Male, Inner Pin)
5V OUT	5V±0.5V (MAX 500mA Output>7.2V)
GND	Video GND, Power Input Negative, Signal GND
VIDEO OUT	Video Output Port (1Vp-p ± 0.2Vp-p @ 75Ω)
NC	No Connection, Floating
VIDEO OUT	Video Out: 1Vp-p ± 0.2Vp-p @ 75Ω
DC IN	Power Input Positive: DC 7V ~ 28V (2S ~ 7S)

Status Indicator & Key Functions Operation Instructions	<p>1)、 When the red LED is off, the device is in standby mode,waiting for key operation; and the keys are in active;</p> <p>2)、 Long-press the center key for 3 seconds, and the red LED will light up to activate the key operation;</p> <p>3)、 When the red LED is on, short-press the left or right key to switch frequency bands (right key for increase, left key for decrease);</p> <p>4)、 When the red LED is on, short-press the up or down key to switch frequency bands (up key for increase, down key for decrease);</p> <p>5)、 When the red LED is on, short-press the center key to enter automatic frequency scanning mode (display “00” if no signal is found);</p> <p>6)、 When the red LED is on, long-press the center key for 5 seconds: the alarm buzzer will sound, and the two red dots on the 7-segment display will flash, entering the alarm frequency scanning mode. When the red dots are flashing, short-press the center key to continue alarm frequency scanning. When a signal is received in alarm mode, the device will stay on the received channel and emit an alarm “beep-beep” sound (the interval of the “beep-beep” sound varies according to the received signal strength, with 4levels: 2S interval. 5S interval, 7S interval, and no sound means no signal received);</p> <p>7)、 To exit the alarm frequency scanning mode, manually long-press the center key for 6 seconds until the red LED turns off. For other function modes, if there is no key operation within 10 seconds, the device will automatically exit and the red LED will turn off.</p> <p>(Note: If the device is powered off in alarm mode and then powered on again, it will display the frequency band/frequency. To re-enter the alarm mode, it needs to be enabled manually.)</p>
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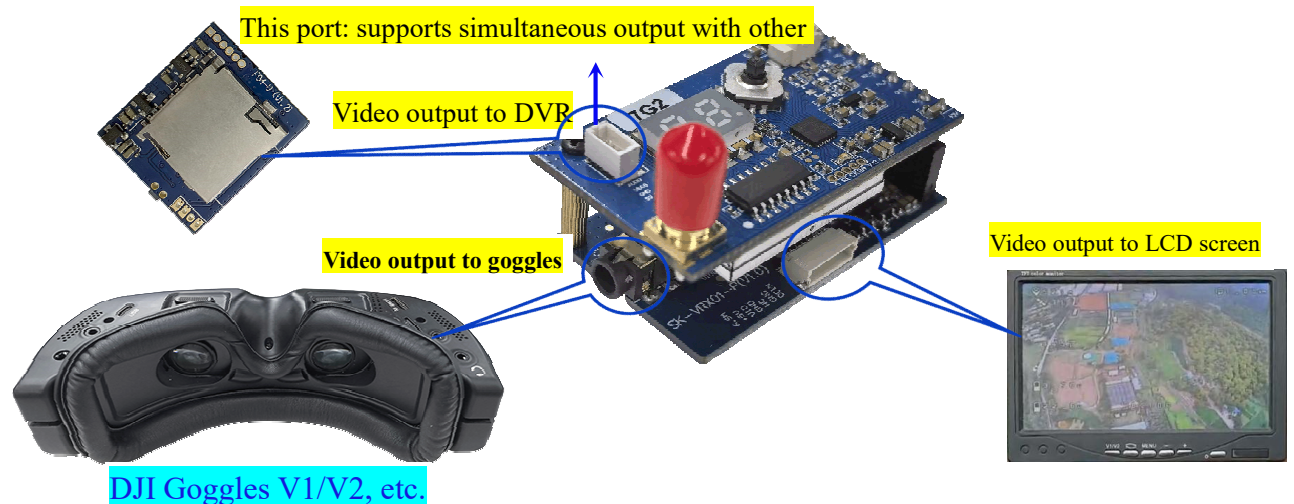
Frequency Channel Table (Frequency Band/Channel) Parameters:

BAND	Channel (Unit: MHz)							
	CH 1	CH 2	CH 3	CH 4	CH 5	CH 6	CH 7	CH 8
FR 1	6110	6130	6150	6170	6190	6210	6230	6250
7-Segment Display Status	11	12	13	14	15	16	17	18
FR 2	6270	6290	6310	6330	6350	6370	6390	6410
7-Segment Display Status	21	22	23	24	25	26	27	28

FR 3	6430	6450	6470	6490	6510	6530	6550	6570
7-Segment Display Status	31	32	33	34	35	36	37	38
FR 4	6590	6610	6630	6650	6670	6690	6710	6730
7-Segment Display Status	41	42	43	44	45	46	47	48
FR 5	6750	6770	6790	6810	6830	6850	6870	6890
7-Segment Display Status	51	52	53	54	55	56	57	58
FR 6	6910	6930	6950	6970	6990	7010	7030	7050
7-Segment Display Status	61	62	63	64	65	66	67	68
FR 7	7070	7090	7110	7130	7150	7170	7190	7210
7-Segment Display Status	71	72	73	74	75	76	77	78
FR 8	6115	6265	6425	6585	6745	6905	7065	7185
7-Segment Display Status	81	82	83	84	85	86	87	88

III. Application Introduction

1)、Base Board (Power) + RF Board: Combined Application



2)、RF Board Standalone Application:

RF Board to Goggles (Fat shark, SKYZONE, etc. with standard bay)



IV. NOTES on Use

- 1) Install the antenna before powering on the device to avoid equipment malfunction;
- 2) Select an appropriate operating frequency and set the transmitter and receiver to the same frequency (see the Frequency Channel Table for detail);
- 3) The input voltage is DC 7V-28V (2-7S). Do not operate the device outside this voltage range;
- 4) The output voltage and current is 5V/0.5A. Note that if power is to be supplied to other devices via the receiver's output, the operating current must be limited within 0.5A. Do not use the voltage output terminal of this product when the required power exceeds 5V/0.5A, otherwise the receiver may be damaged;
- 5) Both 5V and 5V-OUT are output terminals. Do not connect them to a power input terminal or a battery, otherwise damage may occur.

V. Accessories:



7Pin Conn. Cable 1PC



7Pin-DC/RCA Cable, 1PC



3.5mm Male-Male Cable, 1PC



4P/2P Connection Cable, 1PC