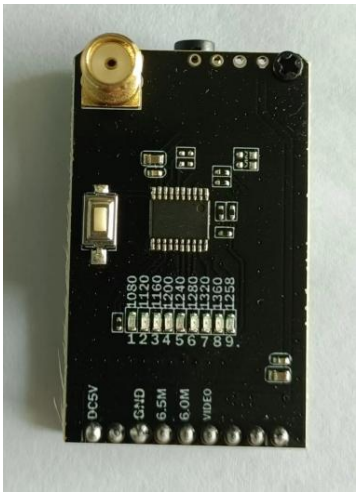
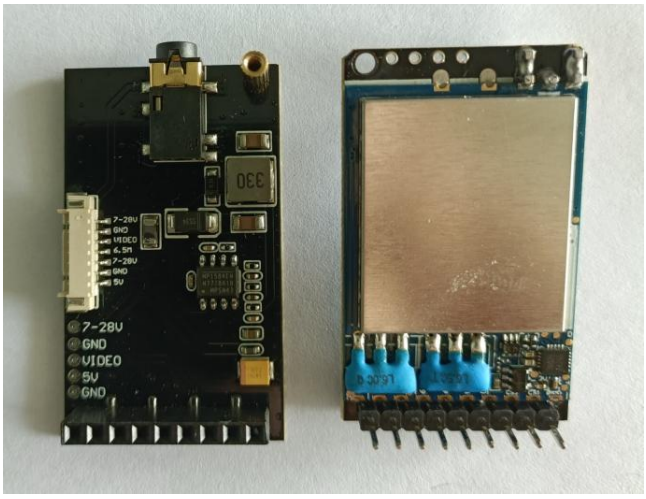
1.2GHz Video Receiver（VRX）

Quick manual



whole



partial

I：Button control and LED light

1. 9 Red led lights represent the frequency, short press once to switch into next frequency. Cycle the operation, every short press means the frequency switch and the light on.

Note: the operation has the setting memory, the system could save the current frequency when the power cut off.

II. Interface definition

1. The antenna type is SMA: The antenna head is "external thread + hole", and the antenna rod is "internal thread + needle". It is equipped with a 1.2G special customized "Y" antenna.

2. 7P 1.25 interface arrays:
(1) power input DC 7-28V;
(2) (2).input ground;
(3) (3).video input;
(4) (4). 6.5M audio input;
(5) (5).DC output 7-28V;
(6) (6).DC output ground;
(7) (7).DC output 5V.

3. 5P Pad definition array:
(1) power input DC 7-28V;
(2) input ground;
(3) video input:
(4) DC output 5V;
(5) DC output ground.

III：Specifications

DC Characteristics	
POWER SUPPLY	5.0V
Current Consumption	(280 ±40)mA
Environmental Specification	
Operating Temperature	-10~+65 ºC
Storing Temperature	-30~+85 ºC
Operating humidity	85%RH
RF	
Receiving frequency range	1080~1258MHz
Frequency channel	1080MHz,1120MHz,1160MHz,1200MHz,1240MHz, 1280MHz,1320MHz,1360MHz,1258MHz
Voltage Standing Wave Ratio	2:1
Demodulation system	FM/PLL
IF	480MHz
ANT. input impedance	50Ω, Typ.
LO Frequency stabilization	±200kHz
LO Frequency Precision	±200kHz
LO Control	PLL
Input LO Leak	-65dBm
Receiving Sensitivity	-95dBm
Input Level Range	-95 dBm ~+5 dBm
Video Characteristics	
Video Output impedance	75Ω, Typ.
Video Output Level	1Vp-p, Typ.
Video Polarity	NEGATIVE
Video Frequency Respone	±5 dB, Max. 50Hz ~ 6MHz
Differential Gain	±5 %, Max
Differential Phase	±5 Deg., Max
3Db IF WIDEBAND	16.5MHz
S/N	38dB, Min
RSSI Output Voltage (-30dBm~-90dBm)	1.3~0.7V
Audio	

Audio Output impedance	2KΩ, Typ.
Audio Output Level	1±0.2Vp-p, Typ.
Audio Output Frequency Range	100Hz ~ 20kHz
Audio carrier	6.0MHz(AR), 6.5MHz(AL)
Audio carrier precision	±30kHz
S/N(50Hz ~ 15kHz)	50dB, Min
THD：(50Hz ~ 15kHz, 3 Vp-p)	1.5 %, Max
Profile dimension	44mm(L)*27mm(W)*27mm(H)
Net weight	20g

IV：Packing list

1. **VTX module *1pc；**
2. **“Y”type antenna *1pc；**
3. **Two-channel Video output cable *1pc；**
4. **7P 1.25 single1 head cable *1pc.**

