

MM238RW FPV Receiver Model

(4.9G / 5.8G / 6.0G SPI MODE)

The MM238RW is a module that supports CVBS signal output, featuring low latency and strong anti-interference capabilities. It is widely used in fields such as FPV drone flight, outdoor entertainment, racing competitions, and professional aerial photography. It allows developers to carry out functional expansion and customized development based on the existing SPI protocol.



1)、Specification

DC Characteristics	
POWER SUPPLY/ Current Consumption	+3.6~5.0V/ 190mA , Max
Environmental Specification	
Storing Temperature/ Operating Temperature	-40°C~ +85°C / -30~+80 °C
Operating humidity	85%RH
RF	
Receiving frequency range	4867-6060MHz
Voltage Standing Wave Ratio	2:1
Demodulation system	FM/PLL
IF	480MHz
ANT. input impedance	50Ω, Type
LO Frequency stabilization	±100kHz
LO Frequency Precision	±100kHz
LO Control	PLL
Input LO Leak	-55dBm
Receiving Sensitivity	-90dBm
Input Level Range	-90dBm ~+5dBm
Video Characteristics	
Video Output impedance/level	75Ω, Type/1±0.2Vp-p
Video Polarity	Negative
Video Frequency Response	±5 dB, Max. 50Hz ~ 6MHz
Differential Gain	±5 %, Max
Differential Phase	±5 Deg., Max
3dB IF WIDEBAND	16.5MHz
S/N	38dB, Min

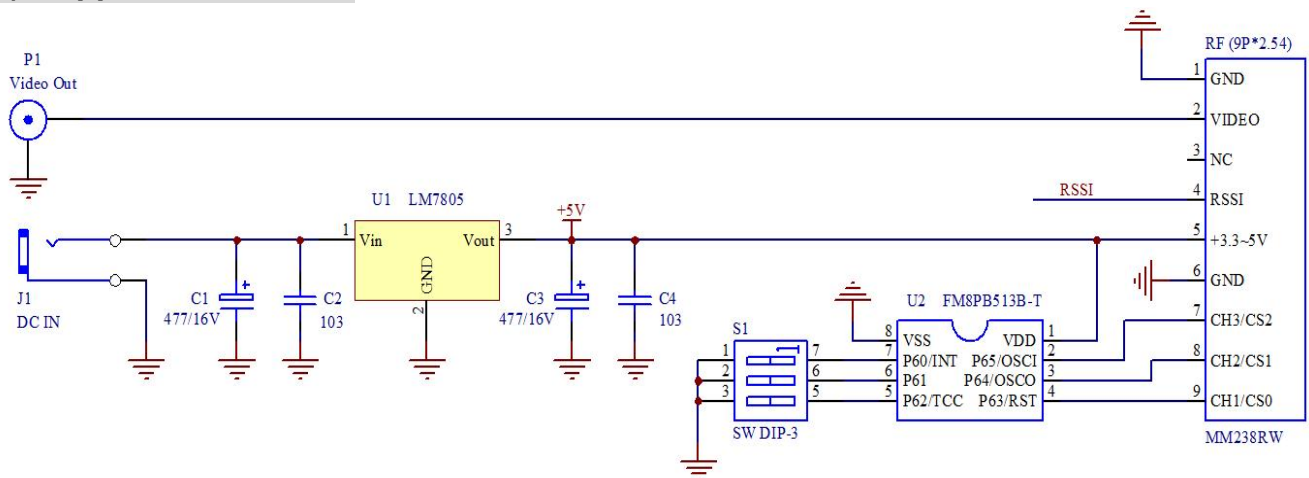
Transmission range	150m~250 (line of sight) @ Transmitter power 14dBm
Dimension	28.4mm(L)*23mm(W)*3.3mm(H)
Weight	Approx.: 3.9g

2)、Function introduce

Pin NO.	Function
1	GND
2	Video Output
3	NC
4	RSSI
5	+3.3~+5V Input
6	GND
7	CH3 (SPI Mode CLK)
8	CH2 (SPI Mode LE)
9	CH1 (SPI Mode DATA)
10	GND
11	GND
12	GND
13	ANT Signal Input
14	GND



3)、Application Circuit



4)、Dimension