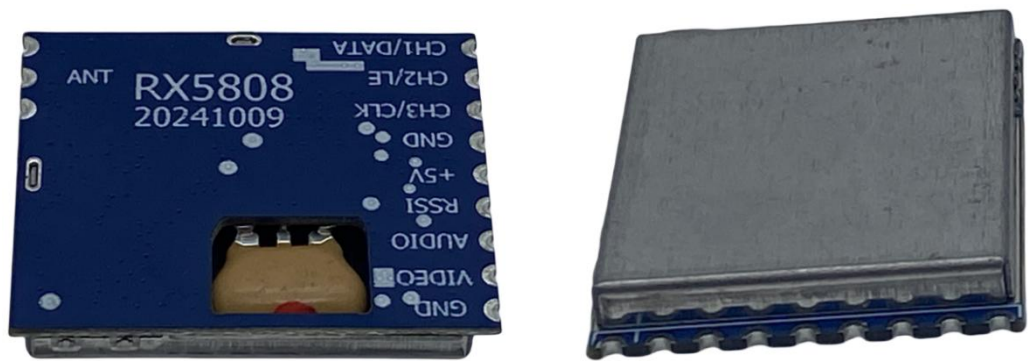


RX5808A 5.8GHz 96CH Audio-Enabled FPV Receiver Module Data Sheet

1. Product Overview

The RX5808A is a 5.8GHz ultra-wide band audio and video receiver module designed for FPV drones, racing drones, RC models and wireless video transmission applications. It supports reception in the 4900MHz–6060MHz frequency band with 96 programmable channels, and integrates 6.5MHz audio demodulation. Featuring high sensitivity, low power consumption and compact size, it enables stable wireless AV signal reception, widely used in FPV goggles, handheld receivers, drone video link systems and more.

2. Product Photos



3. Key Specifications

Category	Item	Specification
RF Performance	Frequency Range	4900MHz ~ 6060MHz
	Number of Channels	96CH
	Modulation	Wide band FM (Audio + Video)
	Receiving Sensitivity	Typical -90dBm
	Input Impedance	50Ω
Electrical Characteristics	Operating Voltage	DC 5V (3.5V–5.5V compatible)
	Operating Current	Typical 170mA
	Audio Sub-carrier	6.5MHz
	Video Output	1.0Vp-p, 75Ω, NTSC/PAL compatible
Output	Audio Output	Analog audio output
	RSSI Output	0–3.3V analog voltage
Physical	Dimensions	28mm × 23mm × 3.5mm
	Weight	Approx. 4.5g (without antenna)
	Operating Temperature	-10℃ ~ +85℃
	Storage Temperature	-40℃ ~ +125℃

4. Pin Definition

Pin No.	Marking	Direction	Description
1	CH1/DATA	Input	Channel select / SPI data
2	CH2/LE	Input	Channel select / SPI latch enable
3	CH3/CLK	Input	Channel select / SPI clock
4	GND	GND	Ground
5	+5V	Input	DC 5V power supply

Pin No.	Marking	Direction	Description
6	RSSI	Output	Received signal strength indicator
7	AUDIO	Output	Audio signal output
8	VIDEO	Output	Video signal output
9	GND	GND	Ground
10	ANT	Input	Antenna input (50Ω)

Note: Supports both manual DIP switch channel selection and SPI digital control.

5. Features

Ultra-wide frequency coverage from 4900MHz to 6060MHz, compatible with mainstream 5.8GHz VTX transmitters.

96 available channels with fast switching via SPI or manual control.

High receiving sensitivity and strong anti-interference performance.

On-board 6.5MHz audio demodulation for synchronized AV output.

Compact and lightweight design, ideal for integration into FPV goggles and receivers.

Analog RSSI output for real-time signal monitoring and OSD display.

6. Typical Applications

FPV racing drones and UAV video reception

Wireless audio and video transmission for drones

FPV goggles and head-mounted displays

Short-range industrial wireless monitoring

RC models, drone racing and live broadcasting

5.8GHz 96 Channels Frequency Table (12 Bands × 8 Channels)								
Band	CH1	CH2	CH3	CH4	CH5	CH6	CH7	CH8
Band A	5725	5745	5765	5785	5805	5825	5845	5865
Band B	5733	5752	5771	5790	5809	5828	5847	5866
Band E	5645	5665	5685	5705	5885	5905	5925	5945
Band F	5740	5760	5780	5800	5820	5840	5860	5880
Band R (Raceband)	5658	5695	5732	5769	5806	5843	5880	5917
Band L (Low)	5362	5399	5436	5473	5510	5547	5584	5621
Band U (Ultra Low)	4900	4920	4940	4960	4980	5000	5020	5040
Band M (Mid-Low)	5060	5080	5100	5120	5140	5160	5180	5200
Band N (Mid)	5220	5240	5260	5280	5300	5320	5340	5360
Band P (Plus)	5960	5975	5990	6005	6020	6035	6050	6060
Band X (Extended)	5400	5420	5440	5460	5480	5500	5520	5540
Band Y (Wide)	5600	5615	5630	5645	5660	5675	5690	5720