

5.8G transmitter Module User's Guide

Model Number: WAV-RFM-001

Model Name:5.8G transmitter

Edition version: 1.0

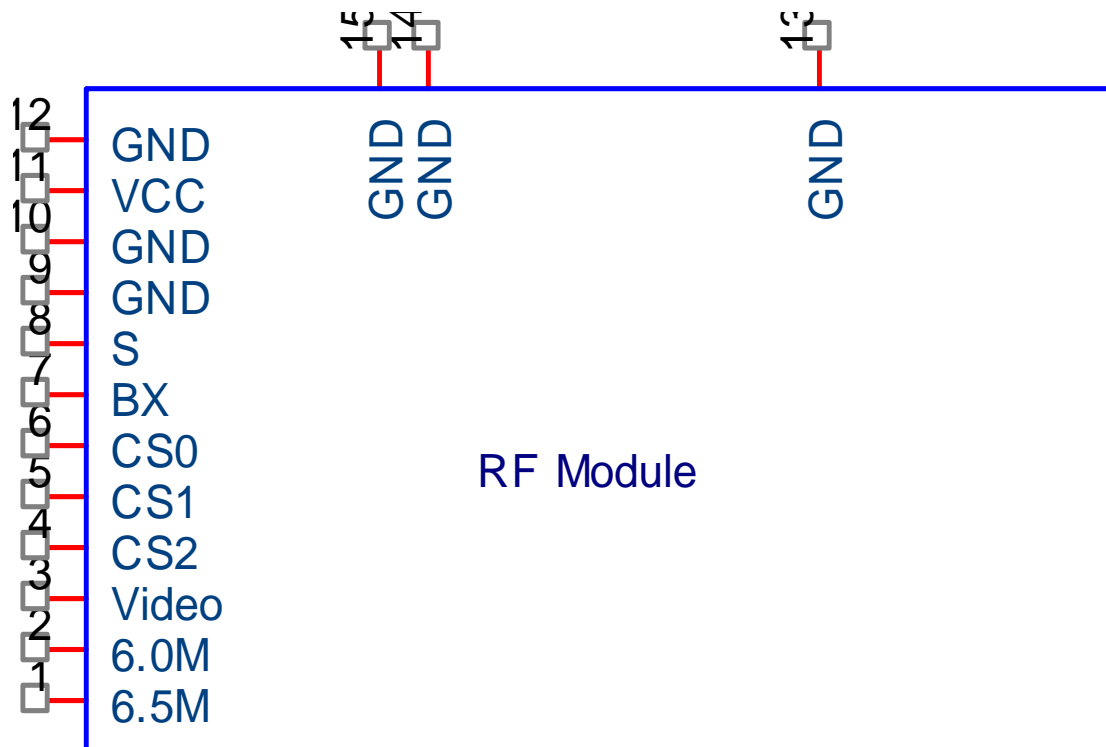
Product Description

The WAV-RFM-001 is an integrated single chip transmitter designed for analog A/V sender FM transmitter operating in the 5.8GHz ISM band

Features

- ❑ 5.8GHZ Band FM Modulator and transmitter
- ❑ Be compatible with both NTSC and PAL video formats
- ❑ 8 channel operation for analog A/V sender and FM transmission applications
- ❑ Channel select by use of either a Slide switch for a set of pre-defined Frequencies
- ❑ Don't need external Audio and video circuit
- ❑ Two input Stereo sound

Module Pin Configurations



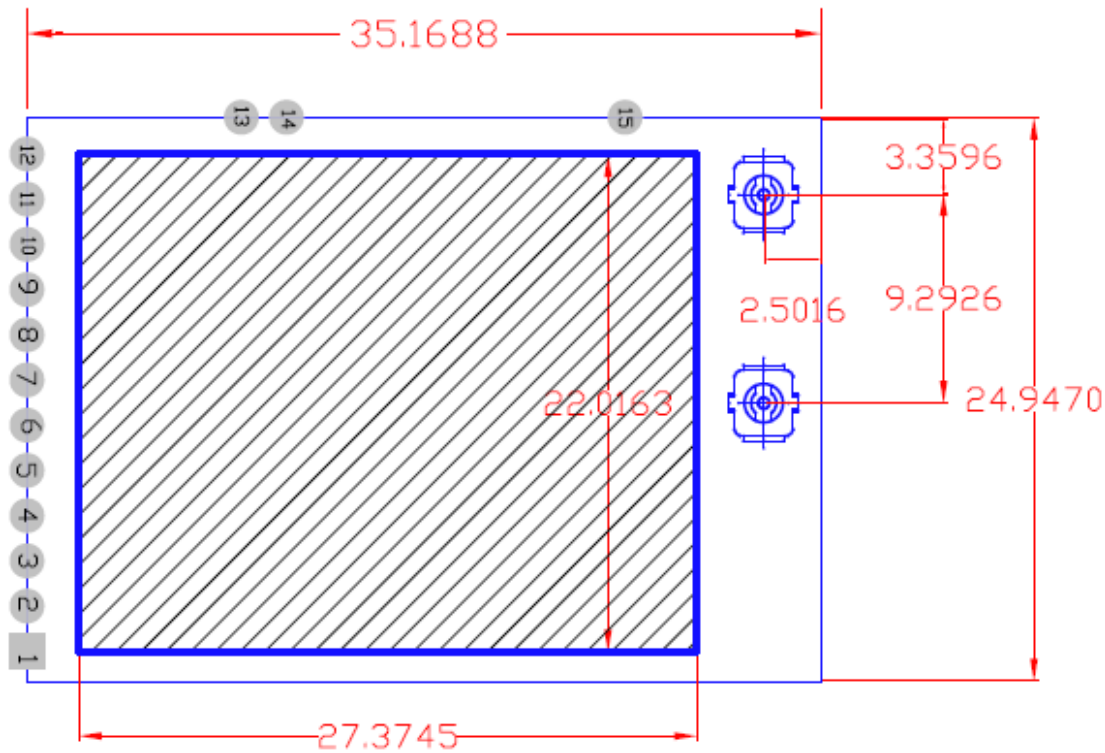
Pin Descriptions

PIN	Name	I/O	Function
1	6.5M	I	Audio Right CH Input
2	6.0M	I	Audio Left CH Input
3	Video	I	AV Composite Input
4	CS2	I	Channel selection Bit 2
5	CS1	I	Channel selection Bit 1
6	CS0	I	Channel selection Bit 0
7	BX	I	Alternative Band Select
8	S	I	A/B Band Select
9	GND	GND	Ground
10	GND	GND	Ground
11	VCC	Power	+5V
12	GND	GND	Ground
13	GND	GND	Ground
14	GND	GND	Ground
15	GND	GND	Ground

Specification

AC/ DC Parameters		Min.	Typ.	Max.	Unit
Supply voltage (DC)		3.4	5	7	V
Supply current			100		mA
RF output power		-1	0	1	dBm
Operation Frequency Range		5733	-	5866	MHZ
Channel frequency Select CS0~CS2 Status	000		5733		MHZ
	001		5752		MHZ
	010		5771		MHZ
	011		5790		MHZ
	100		5809		MHZ
	101		5828		MHZ
	110		5847		MHZ
	111		5866		MHZ
Operating temperature		-10	-	60	°C
Storage temperature Range		-40	-	85	°C
Audio subcarrier frequency	Left		6.0		MHZ
	Right		6.5		MHZ
Modulation/Demodulation Type	FM/FM Modulation				
Video Input	AV Composite Input				
Audio Input	Left, Right sound				
Outer Antenna	U.FL Connector				
PCB Layer	4 Layer				
Pin Output	15 Pin				

Package Outline



User environment

This is a no additional circuitry will be able to AV Composite and audio signals via WAV-RFM-001 video and audio transmission, See photos below indicate

- 1) External power adapter, voltage range 12V ~ 6V are permitted range**
- 2) AV Composite cable to connect the signal source, for example DVD Player, MP4 ... as long as AV Composite signals are available through WAV-RFM-001 signal transmission**

Information for the OEMs and Integrators

The following statement must be included with all versions of this document supplied to an OEM or integrator, but should not be distributed to the end user.

This device is intended for OEM integrators only.

Notice:

In order to avoid misuse or any unexpected damage, please read this guide first.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED,

INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

Federal Communications Commission Requirements

The equipment has been tested and found to comply with the limits for Class B Digital Device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

THE CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and receiver.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement

The equipment complies with FCC radiation exposure limits set forth for uncontrolled equipment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65. The equipment has very low levels of RF energy that it is deemed to comply without testing of specific absorption ratio (SAR).

How to Contact Us

For further information or in case of difficulties please contact
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