

Grove - I2C FM Receiver User Manual

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Wiki: http://www.seeedstudio.com/wiki/Grove - I2C FM Receiver

Bazaar: <u>http://www.seeedstudio.com/depot/Grove-I2C-FM-Receiver-</u> p-1953.html?cPath=25_128



Document Revision History

Revision	Date	Author	Description
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Under the supervision of Seeed Technology Inc., this manual has been compiled and published which covered the latest product description and specification. The content of this manual is subject to change without notice.

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1. Introduction

Grove - I2C FM Receiver is a wideband FM receiver module, this module is based on RDA5807M. The RDA5807M series is the newest generation single-chip broadcast FM stereo radio tuner with fully integrated synthesizer. The RDA5807M series has a powerful low-IF digital audio processor. The Grove - I2C FM Receiver has a headset jack, so it can connect to earphones or audio.





2. Features

- Grove interface
- Support worldwide frequency band: 50 115MHz
- Support RDS/RBDS
- Lower power consumption
- Headsets interface
- Digital auto gain control
- Input voltage: 3.3V 5V



3. Usage

We can change channel by Grove - Button and adjust volume by Grove - Rotary

3.1 Hardware Installation

Part lists :

- Seeeduino Lotus
- Grove I2C FM Receiver
- Grove Button
- Grove Rotary
- Earphone



3.2 Software Part

- 1) Download the code I2C FM Receiver;
- 2) Unzip it into the libraries file of Arduino IDE by the path: ..\arduino-1.0.5\libraries.
- 3) Open the code directly by the path: File -> Example -> I2C_FM_Receiver
- 4) Upload the code. Note that you should select the correct board type and COM port.

You can see Center Frequent:



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4. Resources

- Grove I2C FM Receiver v1.0 Eagle File
- v1.0 Schematic in pdf
- Datasheet of RDA5807M
- Grove I2C FM Receiver v1.1 Eagle File