

# 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
1.0	Sep 22, 2015	Loovee	Create file



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#### Disclaimer

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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



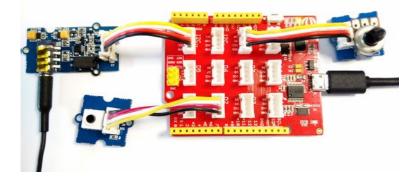
#### 3. Usage

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

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