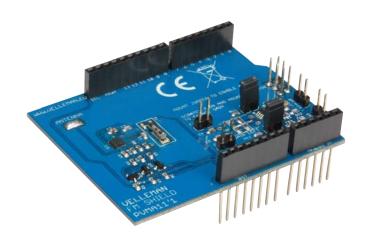




USER MANUAL JULY 2016

# STEREO FM RADIO SHIELD FOR ARDUINO®

ORDER CODE: VMA11



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Let's get started!

### **FEATURES AND SPECS**

The VMA11 is a radio and RDS receiver combined with a powerful and efficient 2.8 W class D audio amplifier. All of this is designed in the familiar Arduino formfactor. In short, this module is ideal if you want to create your own clock radio or if you want to add FM functionality to your projects!

### **FEATURES**

- worldwide FM support
- RDS/RBDS support
- volume control
- automatic frequency control
- automatic gain control
- Arduino® library available
- class D 2.8 W amplifier

#### **SPECIFICATIONS**

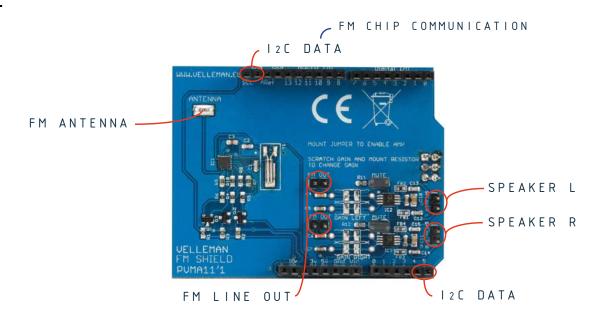
• interface: I2C

power / logic level: 3.3 Vsensitivity: 1.7 μ Vemf

max. output power: 2.8 W (4 Ohm) or 1.6 W (8 Ohm)

default gain: 18 dB (8 x) (adjustable)
THD: 0.02 % (1 W 8 Ohm / 1 kHz)
S/N ratio: 98 dB (1.4 W / 8 Ohm)
dimensions: 68 x 54 x 23 mm

### **PINOUT**



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## **LIBRARY**

Please install the library which you can download from the following link: <a href="https://github.com/Velleman/VMA11">https://github.com/Velleman/VMA11</a>

With this library you can control the FM shield and find example code which will show you all possible features.

If you are not familiar with installing Arduino libraries, please read the following explanation: <a href="https://www.arduino.cc/en/Guide/Libraries">https://www.arduino.cc/en/Guide/Libraries</a>

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**REVISION: HVMA11**