



Quick Reference

## FRDM-STBC-AGM04

Sensor Toolbox Development Platform for  
MMA8652FC 3-axis digital accelerometer,  
FXAS21002C 3-axis digital angular rate gyroscope, and  
MAG3110 3-axis digital magnetometer

SENSOR TOOLBOX SHIELD DEVELOPMENT BOARD



## Quick Reference

### GET TO KNOW THE FRDM-STBC-AGM04

MMA8652FC 3-axis, 12-bit,  
digital accelerometer  
10-pin DFN (2 mm x 2 mm x 1 mm)

MAG3110 3-axis, digital magnetometer  
10 DFN (2 mm x 2 mm x 0.85 mm)



FXAS21002C 3-axis digital angular rate gyroscope  
24 QFN (4 mm x 4 mm x 1 mm)

Figure 1: FRDM-STBC-AGM04

## HOW TO GET STARTED

1. Connect the FRDM-STBC-AGM04 development board to an NXP Freedom development board, such as the FRDM-K64F (or any Arduino R3 compatible board). Refer to the NXP Freedom development board Quick Start Guide for driver information. The latest drivers for the FRDM boards can be found at:

[www.nxp.com/openSDA](http://www.nxp.com/openSDA)

2. Plug one end of a USB cable into the SDA port on the assembly. Plug the other end of the cable into the USB port on the computer.

3. Download and install the latest Sensor Toolbox software at:

[www.nxp.com/sensortoolbox](http://www.nxp.com/sensortoolbox)



Figure 2: Connect board to computer

[www.nxp.com](http://www.nxp.com)

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