Quick Reference
FRDM-K64F-AGM04

Sensor Toolbox Development Platform for
MMA8652FC 3-axis digital accelerometer,
FXAS21002C 3-axis digital angular rate gyroscope,
MAG3110 3-axis digital magnetometer, and
NXP FRDM-K64F development board

SENSOR TOOLBOX DEMONSTRATION KIT

GET TO KNOW THE FRDM-K64F-AGM04

MMA8652FC 3-axis,
12-bit, digital accelerometer
10 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)

IN1_8652 – 3
IN1_21002 – 5
IN1_3110 – 6

IN2_8652 – 1
IN2_21002 – 3

I2C_SDA0 – 9
I2C_SCL0 – 10

6 – I2C_SCL1
5 – I2C_SDA1

7 – GND
6 – GND

4 – VDD
2 – VDD

Test points (14 places)

Through hole pins (14 places)

FXAS21002C 3-axis digital
angular rate gyroscope
24 QFN (4 mm x 4 mm x 1 mm)
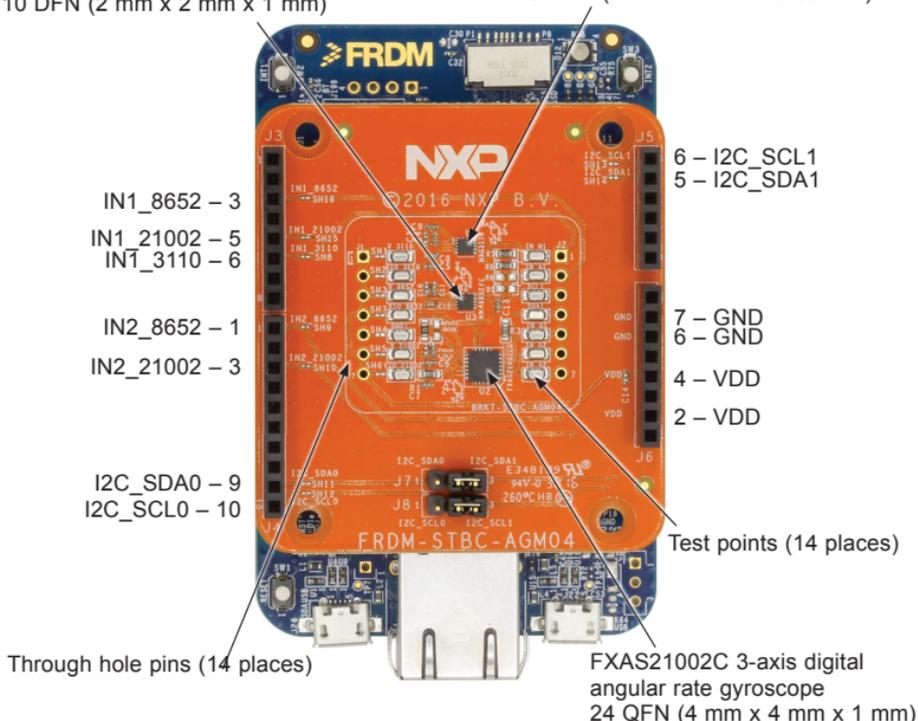
Figure 1: FRDM-K64F-AGM04

HOW TO GET STARTED

1. Verify package contents:
   - FRDM-K64F
   - FRDM-STBC-AGM04
   - USB cable

2. Download the mbed Windows serial port driver:
   development.mbed.org/handbook/Windows-serial-configuration
   For the latest FRDM-K64F drivers, please visit nxp.com/openSDA

3. 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, Figure 2.

4. Download and install the latest Sensor Toolbox software at:
   www.nxp.com/sensortoolbox

Figure 2: Connect kit to computer