



# Quick Start Guide for FRDM-FXS-MULTI

## Contents:

- Quick Start Package Overview
- Get to Know the FRDM-FXS-MULTI
- Getting Started Out of the Box
- Explore Further



[freescale.com/FRDM-MULTI](http://freescale.com/FRDM-MULTI)

External Use

FRDMFXSMULTIQSG  
Rev. 1.0, 4/2014

Freescale, the Freescale logo, Altivec, C-5, CodeTEST, CodeWarrior, ColdFire, ColdFire+, C-Ware, the Energy Efficient Solutions logo, Kinetis, mobileGT, PEG, PowerQUICC, Processor Expert, QorIQ, Qorivva, SafeAssure, the SafeAssure logo, StarCore, Symphony and VortiQa are trademarks of Freescale Semiconductor, Inc., Reg. U.S. Pat. & Tm. Off. Airfast, BeeKit, BeeStack, CoreNet, Flexis, Layerscape, MagniV, MXC, Platform in a Package, QorIQ Qonverge, QUICC Engine, Ready Play, SMARTMOS, Tower, TurboLink, UMEMS, Vybrid and Xtrinsic are trademarks of Freescale Semiconductor, Inc. All other product or service names are the property of their respective owners. © 2014 Freescale Semiconductor, Inc.



# Quick Start Package Overview

This document is available as part of the Quick Start Package:

Name	Type	Description
Quick Start Guide	PDF	This document

Additional reference documents are available on [freescale.com/FRDM-MULTI](http://freescale.com/FRDM-MULTI):

Name	Description
FRDM-FXS-MULTI Schematic	PDF schematics for the FRDM-FXS-MULTI hardware
OpenSDA User's Guide	Overview and instructions for use of the OpenSDA embedded debug circuit

# Quick Start Package Overview

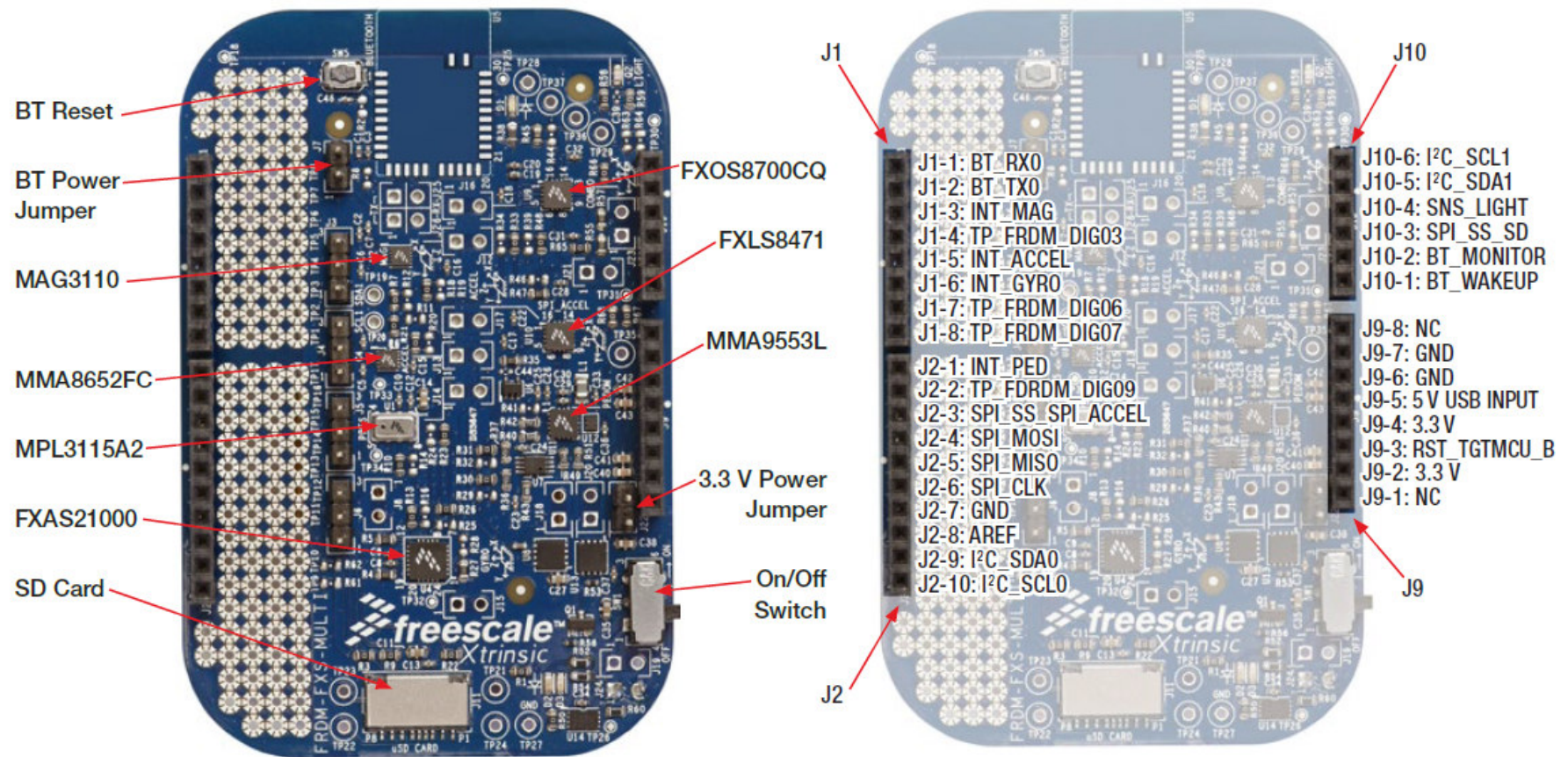
2 of 2

Documentation for the sensors on the FRDM-FXS-MULTI:

Name	Description
<a href="#">MPL3115A2.pdf</a>	Data sheet for MPL3115A2 I2C Precision Altimeter
<a href="#">MMA8652FC.pdf</a>	Data sheet for MMA8652FC 3-Axis, 12-bit Digital Accelerometer
<a href="#">FXAS21000.pdf</a>	Data sheet for FXAS21000 3-Axis Digital Gyroscope
<a href="#">FXOS8700CQ.pdf</a>	Data sheet for FXOS8700CQ 6-Axis Sensor with Integrated Linear Accelerometer and Magnetometer
<a href="#">FXLS8471Q.pdf</a>	Data sheet for FXLS8471Q 3-Axis, Linear Accelerometer
<a href="#">MMA955xL.pdf</a>	Data sheet for MMA9553L Intelligent Motion-Sensing Platform Pedometer
<a href="#">MAG3110.pdf</a>	Data sheet for MAG3110 Three-Axis, Digital Magnetometer

# Get to Know the FRDM-FXS-MULTI

1 of 2



# Get to Know the FRDM-FXS-MULTI

2 of 2

The Freescale Freedom development platform is a small, low-power, cost-effective evaluation and development system for quick application prototyping and demonstration of Kinetis MCUs and Xtrinsic sensors.

Each platform is scalable, leveraging various Xtrinsic sensors. As a next-generation tool set, there is variation of what can be demonstrated from basic discrete, raw data up through more complex contextual awareness. The FRDM-FXS-MULTI is the first of its kind offering 12-axis sensing.

## Features:

- Cost Effective
- Small Size (Approximately 81 x 52 x 2 mm)
- Arduino™ R3 footprint-compatible with support for sensor expansion boards
- Easy to access to MCU I/O pins
- Integrated open-standard serial and debug adapter (OpenSDA) when using a Kinetis Freedom Board such as the KL25Z or KL20.



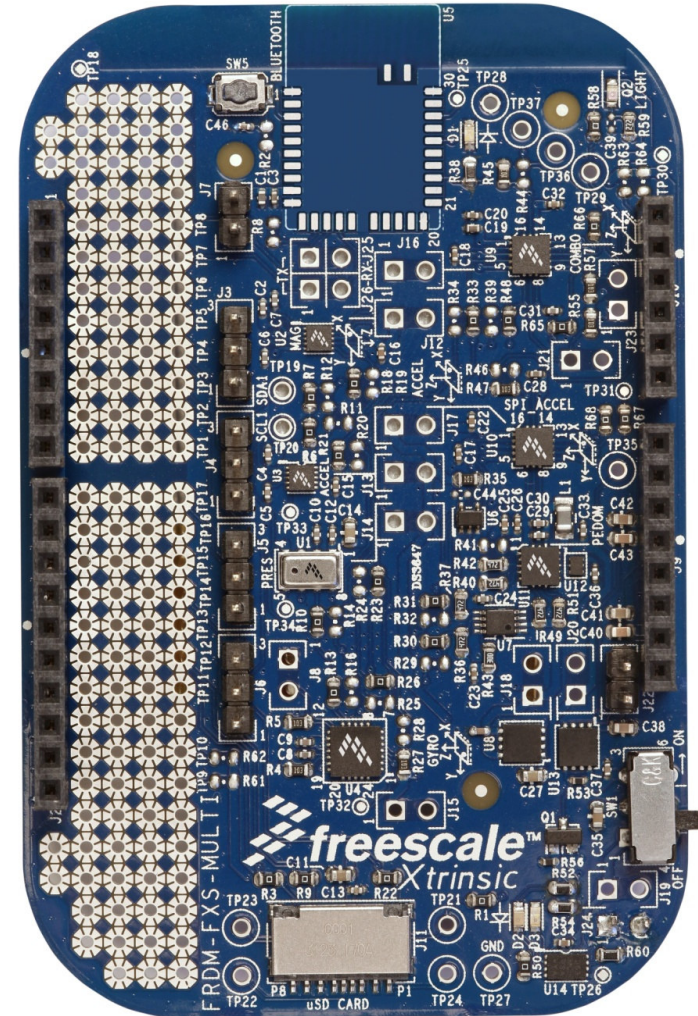


# Getting Started Out of the Box

You can utilize the FRDM-FXS-MULTI with any Arduino MCU board. We recommend using either the Kinetis KL25Z or KL20 MCU boards.

For more information on OpenSDA, refer to the *OpenSDA User's Guide* or [www.pemicro.com/opensda](http://www.pemicro.com/opensda).

You can then download demos and/or code at [freescale.com/FRDM-MULTI](http://freescale.com/FRDM-MULTI).



# Explore Further

Now that you are familiar with the FRDM-FXS-MULTI, it's time to explore the additional software and lab guides available on [freescale.com/FRDM-MULTI](https://freescale.com/FRDM-MULTI).

Select your next path from the links in the **Jump Start Your Design** section.



**How to Reach Us:****Home Page:**

freescale.com

**Web Support:**

freescale.com/support

Information in this document is provided solely to enable system and software implementers to use Freescale products. There are no express or implied copyright licenses granted hereunder to design or fabricate any integrated circuits or integrated circuits based on the information in this document. Freescale reserves the right to make changes without further notice to any products herein. Freescale makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does Freescale assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation consequential or incidental damages. “Typical” parameters that may be provided in Freescale data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including “Typicals”, must be validated for each customer application by customer’s technical experts. Freescale does not convey any license under its patent rights nor the rights of others. Freescale sells products pursuant to standard terms and conditions of sale, which can be found at the following address:  
<http://www.reg.net/v2/webservices/Freescale/Docs/TermsandConditions.htm>

Freescale, the Freescale logo, and Kinetis are trademarks of Freescale Semiconductor, Inc., Reg. U.S. Pat. & Tm. Off. Xtrinsic is a trademark of Freescale Semiconductor, Inc. All other product or service names are the property of their respective owners.







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