

Kinetis SDK v.1.2.0 Release Notes for FRDM-KV31F Freescale Freedom Development Platform

1 Overview

These are the release notes for the Freescale Kinetis Software Development Kit (SDK) 1.2.0 support for Freescale Freedom FRDM-KV31F development platform. This release adds support for the board including the set of demos and examples into existing KSDK 1.2.0. For more information about the KSDK 1.2.0 content, structure and limitations, see *Kinetis SDK v.1.2.0 Release Notes* (document KSDK120RN).

Contents

1 Overview.....	1
2 What Is New	2
3 Development Tools.....	2
4 Supported Development Systems	2
5 Release Contents	3
6 Kinetis SDK Release Overview	3
6.1 Demo applications	3
6.2 Driver examples.....	3
7 Known Issues	3
7.1 Multilink issue	3
8 Revision History.....	4

For the latest version of this and other Kinetis SDK documents, see the Kinetis SDK homepage www.freescale.com/ksdk.

2 What Is New

These are the new features for Kinetis SDK 1.2.0:

- Added board support for Freescale Freedom FRDM-KV31F development platform

3 Development Tools

The Kinetis SDK 1.2.0 Freescale Freedom FRDM-KV31 development platform support was compiled and tested with these development tools:

- Kinetis Design Studio IDE v3.0
- IAR Embedded Workbench for ARM[®] version 7.40.2
- MDK-ARM Microcontroller Development Kit (Keil)[®] 5.14
- Makefiles support with GCC revision 4.8-2014-q3-update from ARM Embedded
- Atollic[®] TrueSTUDIO[®] 5.3.0

4 Supported Development Systems

This release supports boards and devices listed in this table. Boards and devices in boldface were tested in this release:

Table 2. Supported MCU devices and development boards

Development boards	Kinetis MCU devices
FRDM-KV31F (Rev. A)	MKV31F512VLL12 , MKV31F512VLH12, MKV30F128VFM10, MKV30F128VLF10, MKV30F128VLH10, MKV30F64VFM10, MKV30F64VLF10, MKV30F64VLH10, MKV31F128VLH10, MKV31F128VLL10, MKV31F256VLH12, MKV31F256VLL12

5 Release Contents

This table describes the release contents.

Table 3. Release Contents

Deliverable	Location
Demo applications	<install_dir>/examples/frdmkv31f/demo_apps/...
Driver examples	<install_dir>/examples/frdmkv31f/driver_examples/...
Documentation	<install_dir>/doc/...
A Processor Expert service pack	<install_dir>/tools

6 Kinetis SDK Release Overview

6.1 Demo applications

The demo applications demonstrate the usage of the driver libraries and other integrated software solutions on supported development systems. For details, see the *Kinetis SDK v. 1.2 Demo Applications User's Guide* (document KSDK12KV31DEMOUG).

6.2 Driver examples

The driver examples demonstrate configuring drivers by passing configuration data to the API functions. For details, see the *Kinetis SDK v.1.2 Demo Applications User's Guide* (document KSDK12KV31DEMOUG).

7 Known Issues

7.1 Multilink issue

The P&E Micro GDB server, installed with Atollic TrueSTUDIO may fail to program the KV31 derivative (Freescale FRDM-KV31F Freedom development platform). To prevent this issue, ensure that the latest version of the P&E Micro GDB server is installed from www.pemicro.com/arm/3rd-party/index.cfm.

Additionally, verify that the path to the newly installed P&E Micro GDB server is correct in the main menu of the Atollic IDE by going to Window→Preferences→Run/Debug→Embedded C/C++ Application→Debug Hardware→P&E Micro.

For additional limitations, see *Kinetis SDK v1.2.0 Release Notes* (document KSDK120RN) for the list of known issues in KSDK 1.2.0.

8 Revision History

This table summarizes revisions to this document.

Revision History		
Revision number	Date	Substantial changes
0	07/2015	Initial release

How to Reach Us:

Home Page:

www.freescale.com

Web Support:

www.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 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: freescale.com/SalesTermsandConditions.

Freescale, the Freescale logo, and Kinetis are trademarks of Freescale Semiconductor, Inc., Reg. U.S. Pat. & Tm. Off. Tower is a trademark of Freescale Semiconductor, Inc. All other product or service names are the property of their respective owners. ARM, ARM powered logo, Keil, and Cortex are registered trademarks of ARM Limited (or its subsidiaries) in the EU and/or elsewhere. All rights reserved.

© 2015 Freescale Semiconductor, Inc. All rights reserved.

