IEC60730BSERN

IEC60730B Example release notes

Rev. 1 — 07/2021 Release Notes

by: NXP Semiconductors

1 Introduction

These release notes describe important release information for the IEC60730B safety example application released with IEC60730B library v4.1.

All information about IEC60730B are at www.nxp.com/iec60730.

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2 What is new

The example released with the IEC60730B library version v4_1 contains example projects for the following boards:

Table 1. Device with available example projects

Development board	Version of library	Example projects available in MCUXspresso SDK
evkmimxrt1060	4.1	SDK 2.10
evkbmimxrt1060	4.1	SDK 2.10
frdmk22f	4.1	SDK 2.10
lpcxpresso51u68	4.1	SDK 2.10
evkmimxrt1170	4.1	SDK 2.10
lpcxpresso845max	4.1	SDK 2.9
lpcxpresso824max	4.1	SDK 2.9
frdmkv11z	4.1	SDK 2.9
frdmke15z	4.1	SDK 2.9
frdmk32l2a4s	4.1	SDK 2.9
evkmimx8mm	4.1	SDK 2.9
evkmimxrt1020	4.1	SDK 2.9
evkmimxrt1024	4.1	SDK 2.9
evkbimxrt1050	4.1	SDK 2.9
frdmkv31f	4.1	SDK 2.9
lpcxpresso55s69	4.1	SDK 2.9
lpcxpresso55s28	4.1	SDK 2.9
evkmimx8mn	4.1	SDK 2.9

Table continues on the next page...



Table 1. Device with available example projects (continued)

Development board	Version of library	Example projects available in MCUXspresso SDK
frdmkl26z	4.1	For example please contact an NXP representative
frdmke02z40m	4.1	For example please contact an NXP representative
twrke18f	4.1	For example please contact an NXP representative
twrkv58f220m	4.1	For example please contact an NXP representative
twrkv46f150m	4.1	For example please contact an NXP representative
frdmk32l2b3	4.1	For example please contact an NXP representative

Updates in version 4.1.

- · WDOG test function consolidated the function for the specific timer timer was merged to one with parameters that select the correct refresh sequence for a dedicated WDOG.
- Hardware flash test on i.MXRT10xx The hardware test is now supported also for i.MXRT1010 and other devices with the same DCP module.
- Analog I/O test on i.MXRT10xx software triggered version of the Analog I/O test was added.
- Newly supported devices frdmk32l2b3, frdmk32l2a4s, lpcxpresso55s28, evkmimx8mn, evkmimx8mm, evkmimxrt1024, evkmimxrt1170, frdmk22f.
- Updated device The examples for Kinetis devices were updated from version 3 to example version 4.1.
- frdm-ke15z The ADC test is now set for a 5 V reference. This is set in the safety_config.h file. For more information, see the corresponding example user's guide.

3 Development tools

The safety IEC60730B example application were tested with the following development tools:

- IAR Embedded Workbench IDE version 9.10.2
- Arm[®]-MDK Keil[®] uVision[®] version 5.34
- MCUxpresso IDE version 11.4.0

FreeMASTER tool version 3.0 was used for application monitoring.

4 Known issues or important changes

This chapter contains the description of known issues or non-stantdard behavior of the released example.

MIMX8M Mini and Nano

The MIMX8M Mini and Nano application examples are not provided for the Keil and MCUXpresso IDEs.

LPCxpresso80x - MCUXpresso IDE

The FreeMASTER monitoring is turned off due to small memory size of the MCU.

FRDM-KL26 uVision Keil support

The current version of the SDK does not support KL26 with the ArmV6 compiler.

FRDM-KW36/38 uVision Keil support

Example for KW36/38 in uVision Keil not suported.

FRDM-KE02z uVision support

The MKE02Z application example is not provided for the Keil IDE.

TWR-KV58F220M - uVision support

In the uVision Keil, turn off the flash test due to a problem with the download of the edited binary file by the debugger.

5 Revision history

Table 2. Revision table

Revision	SDK	Description
Rev 0	2.9.0	Intial release
Rev 1	2.10.0	Change devices supported in SDK rel. 2.10.

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