TWR-K65F120M Kinetis SDK Engineering Release

Rev. 1

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# Purpose

This document describes the K65 Kinetis SDK (KSDK) engineering release for K65 Alpha customers. It will cover what features have been tested and known issues.

# Overview

This software package is a very early preview of Kinetis SDK support for the K65 family. It is released “AS IS” and has only received minimal testing. A few basic demos have been tested for basic functionality, but this engineering release has not gone through the rigorous testing of an official KSDK release.

We recommend using this software release only for basic board checkout purposes. It is not recommended to begin production code development with this release, as driver and HAL APIs may change, directory structures may change, features may change, and drivers and other KSDK features have not been explicitly tested on the K65 platform yet.

This is a stand-alone release which does not rely on previous Kinetis SDK releases. Any bugs found in this release should be reported, but bug fixes are not guaranteed by Freescale for this release. Once the final release for K65 is released in Q2 2015, customers will be expected to migrate to the official release.

# Tested Demos

The following demos have been tested and are verified as working with Kinetis Design Studio 2.0 on a TWR-K65F180M Rev B tower board:

* \demos\hello\_world
* \demos\lptmr\_demo
* \demos\adc\_hw\_trigger\pit
* \rtos\mqx\mqx\examples\hello
* \usb\example\device\hid\hid\_mouse (Full Speed and High Speed)
* \usb\example\device\msd (High Speed)

As part of the demo testing, the KSDK Platform and KSDK MQX Platform libraries were also successfully compiled.

While these basic demos work, the driver and HAL features that the demos use have not been thoroughly tested with the K65 family.

# Known Issues

There are several known issues with this engineering release:

* Some IAR projects will not compile successfully
* The \demos\i2c\_rtos demo does not function correctly
* Clock manager feature does not support external PLL (clock from USBPHY)

# Getting Started

Get started by unzipping the KSDK for K65 package. It should be placed into a directory path that contains no spaces.

Then read the **<KSDK\_path>\doc\Getting Started with Kinetis SDK (KSDK).pdf** document for details about Kinetis SDK and how to compile the KSDK libraries and example projects with different IDEs. Note that this release has only been tested with Kinetis Design Studio. You can then read the other documentation in the \doc folder for more information on Kinetis SDK.