freescale
Kinetis
Design Studio

Kinetis Design Studio IDE

Integrated Development Environment (IDE) for Kinetis MCUs

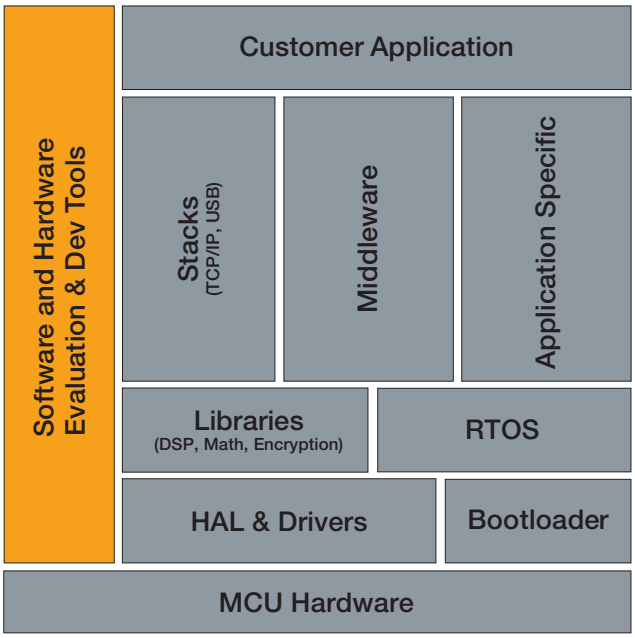
Overview

The Kinetis Design Studio IDE is a complimentary integrated development environment for Kinetis microcontrollers that enables robust editing, compiling and debugging of your designs. Based on free, open-source software including Eclipse IDE, GNU Compiler Collection (GCC), GNU Debugger (GDB), and others, the Kinetis Design Studio IDE offers designers a straightforward development tool with no code-size limitations. The Processor Expert software configuration tool, integrated in the Kinetis Design Studio IDE, saves time and effort with its knowledge base as well as helps start application development with a few mouse clicks.

Features:

- Eclipse Luna 4.4 Framework
- Host operating systems:
  - Windows® 7/8 with 32-bit binaries running on 32-bit and 64-bit OS
  - Linux® (Ubuntu 14.04 (deb), RedHat/ Centos 7 (rpm)) (64-bit binaries), requires 32-bit libraries for GNU ARM Embedded (launchpad) tools
  - Mac OS X ("Yosemite") with Segger support
- GDB debugger interface can be used in Eclipse or driven from Command Line with support for the following debug interface hardware:
  - SEGGER J-Link (w/SEGGER GDB Server)
  - P&E Multilink (w/P&E GDB Server)
  - CMSIS-DAP (w/OpenOCD GDB and OpenSDA embedded circuit for selected boards/devices)
- Support for additional downloadable Eclipse plug-ins including RTOS-awareness (such as MQX™ RTOS and FreeRTOS)
- Processor Expert software with support for Kinetis software development kit (SDK)
- Project wizard to create bare metal, Kinetis SDK and Processor Expert projects
- Languages supported:
  - Assembly, C and C++ (all with no code size restrictions)
- Libraries included:
  - newlib and newlib-nano
- Industry standard Eclipse Framework with CDT for C/C++
- Kinetis SDK peripheral drivers and CMSIS compliant startup code
- GNU ARM Eclipse plugins for managed make projects
- GNU Tools for ARM Embedded Processors (launchpad) build tools (4.8)
- Support for MQX RTOS project creation and MQX Kernel Awarness (available as MQX software download)
- Supports Eclipse plugins either from the Eclipse eco-system or from partners

Kinetis Design Studio IDE



Supported Devices/Families

- Kinetis E: MKE0x/KEA
- Kinetis K: MK10, MK20, MK30, MK40, MK50, MK60, MK70
- Kinetis L: MKL0x, MKL1x, MKL2x, MKL3x, MKL4x
- Kinetis V: MKV1x, MKV3x
- Kinetis W: MKW0x, MKW2x

Device support is added and extended through Kinetis SDK updates.

Get Started

Download now: **freescale.com/kds**

Supported Ecosystem and Partners Solutions

The Kinetis Design Studio IDE is a complementary IDE from Freescale providing all the basic requirements for software development and designed specifically for Kinetis MCUs. For commercial full-featured IDEs, please visit these partners:

- Atollic® TrueSTUDIO® **atollic.com/index.php/kinetiside**
- Green Hills® Software MULTI **ghs.com/products/freescale_kinetis.html**
- IAR Embedded Workbench® **iar.com/kinetis**
- ARM® Keil® Microcontroller Development Kit **keil.com/freescale**
- Somnium® DRT, Freescale Kinetis Edition **somniumtech.com**

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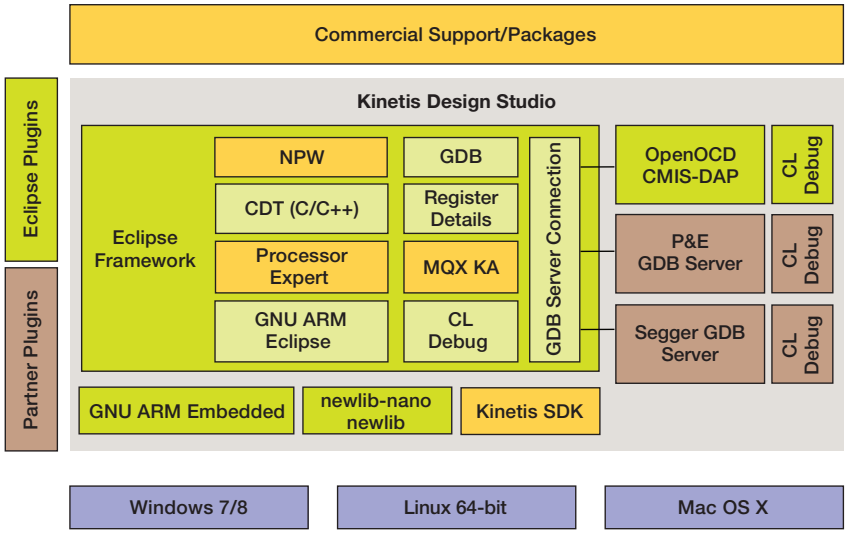
Kinetis Design Studio IDE Block Diagram



Other Featured IDEs for Kinetis MCUs

atollic

Green Hills® SOFTWARE

IAR SYSTEMS

SOMNIUM®

ARM® KEIL® Microcontroller Tools

For more information about Kinetis Design Studio IDE and other featured IDEs, please visit freescale.com/kds or freescale.com/kide

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