



Rapidly prototype ARM® Cortex®-M4 and Cortex-M0+ processors

Freescale Freedom Development Platform

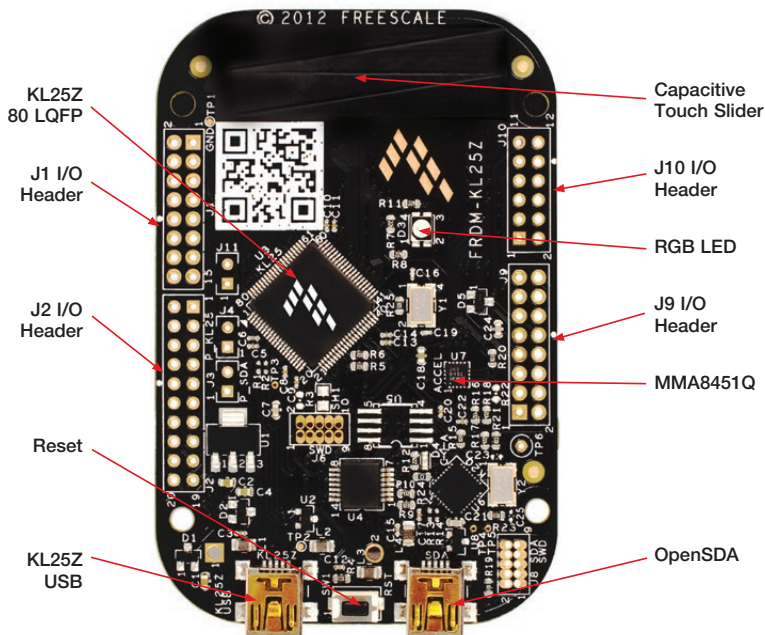
Overview

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

Each platform offers an easy-to-use mass-storage device mode flash programmer, virtual serial port and classic programming and run-control capabilities.

It's easy to get started. Simply choose your preferred Freescale Freedom development hardware, select compatible software, connect with the community and go.

Example Freescale Freedom Development Platform: FRDM-KL25Z



Features

- Cost-effective (starting at \$12.95)
- Small size (approximately 3.25" x 2"), fits within a mint tin
- Arduino™ footprint-compatible with support for a rich set of third-party expansion boards ("shields")
- Kinetis MCUs based on ARM technology
- Easy access to the MCU I/O pins
- Integrated open-standard serial and debug adapter (OpenSDA) with support for several industry-standard debug interfaces
- Capacitive touch slider and tri-color LED
- Flexible power supply options—coin cell battery, external source



Software Enablement and Support

- Rich ARM ecosystem includes ARM Keil® tool, IAR, SEGGER, CodeWarrior IDE, ARM mbed™ platform and more
- Freescale MQX™ Lite RTOS: Very light MQX kernel for resource-limited MCUs that allows applications to run with less than 4 KB RAM
- Processor Expert software configuration tool and embedded components
- FRDM-KL25Z is mbed-enabled through the built-in USB flash programming interface (OpenSDA). Simply plug it in, drop on an “mbed interface” program binary and it’s up and running

OpenSDA: Open-Standard Serial And Debug Adapter

The integrated debug circuit, OpenSDA, bridges serial and debug communications between a USB host and an embedded target processor. OpenSDA features a mass storage device bootloader that provides a quick and easy mechanism for loading different OpenSDA applications such as flash programmers, run-control debug interfaces, serial-to-USB converters and more, including:

- Freescale mass storage device flash programming interface that eliminates tool installation for quick evaluation of demonstration applications
- P&E Multilink interface that provides run-control debugging and compatibility with IDE tools
- SEGGER OpenSDA firmware makes OpenSDA compatible to J-Link Lite
- mbed interface application that provides connection to mbed online tools and supports a virtual serial port, CMSIS-DAP and a mass-storage programming interface
- CMSIS-DAP interface (standalone): new ARM standard for embedded debug interface



Get Started

Learn more at freescale.com/freedom


Get your FRDM-KL25Z mbed-enabled from mbed.org/handbook/mbed-FRDM-KL25Z.

Enable your OpenSDA as a Segger J-Link Lite at segger.com/opensda.html.

Get Connected

Join the Freescale community
freescale.com/community.

 Visit Freescale on Facebook
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For a complete list of boards offered as part of the Freescale Freedom development platform, please visit freescale.com/Freedom

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Document Number: FREEDEVPLTOVERFS REV 3





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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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