
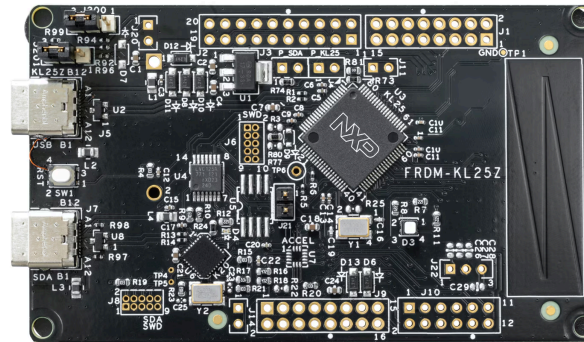


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Home (/) /Details Center (/design/design-center/resources)
/ Development Boards and Designs (/design/design-center/development-boards-and-designs:EVDEBRDSSYS)
/ General-Purpose MCUs (/design/design-center/development-boards-and-designs/general-purpose-mcus:FREDEVPLA)
/ FRDM-KL25Z | KL14/KL15/KL24/KL25 | Dev Platform

FRDM Development Platform for Kinetis® KL14, KL15, KL24, KL25 MCUs

FRDM-KL25Z ACTIVE Receive alerts 



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New FRDM-KL25Z revision available, upgrade to USB-C. SDK examples are compatible with previous board revisions. MMA8451Q accelerometer not soldered on Rev.I | MMA8451Q is no longer recommended for new designs.

The FRDM KL25Z is an ultra-low-cost development platform for Kinetis® L Series KL1x (KL14/15) and KL2x (KL24/25) MCUs built on Arm® Cortex®-M0+ processor.

- Features include easy access to MCU I/O, battery-ready, low-power operation, a standards-based form factor with expansion board options and a built-in debug interface for flash programming and run-control.
- The FRDM-KL25Z is supported by a range of NXP® and third-party development software.
- You can now use mbed.org at no charge, with full access to the online SDK, tools, reusable code—which means no downloads, installations or licenses—and an active community of developers.
- Processor Expert® component for low voltage H-Bridge >products enables rapid embedded application development.
- The FRDM-KL25Z is supported by Zephyr OS for developing the Internet of Things with a free, open-source embedded operating system.

Less ^

DESIGN FILES

SOFTWARE



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(//www.nxp.com)

FRDM Development Platform for Kinetis® KL14, KL15, KL24, KL25 MCUs

ACTIVE



Supported Devices

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KL Series Arm Cortex-M0+

- **KL1x** (/products/KL1x): Kinetis® KL1x-48 MHz, Mainstream Small Ultra-Low Power Microcontrollers (MCUs) based on Arm® Cortex®-M0+ Core
- **KL2x** (/products/KL2x): Kinetis® KL2x-72/96 MHz, USB Ultra-Low-Power Microcontrollers (MCUs) based on Arm® Cortex®-M0+ Core

Features

MKL25Z128VLK4 MCU

- 48 MHz
- 128 KB flash
- 16 KB SRAM
- 80LQFP

Sensor

- Capacitive touch "slider"
- MMA8451Q accelerometer

Debug

- Sophisticated OpenSDA debug interface
- Open-source data logging application provides an example for customer, partner and enthusiast development on the OpenSDA circuit
- P&E Multilink interface provides run-control debugging and compatibility with IDE tools

Connectivity

- Connectivity Easy access to MCU I/O

Tools and OS Support

- Arm® Mbed™ enabled
- Supported by Zephyr® OS



- Mass storage device flash programming interface (default) – no tool installation required to evaluate demo apps

Overview Product Details Documentation Design Resources **User Components** Support Tri-color LED BUY OPTIONS GET STARTED (/DOCUMENT/GUIDE/GETTING-STARTED-WITH-THE-FRDM-KL25Z:NGS-FRD

MCUXpresso Software and Tools



- MCUXpresso SDK (/design/design-center/software/development-software/mcuxpresso-software-and-tools-/mcuxpresso-software-development-kit-sdk:MCUXpresso-SDK)
 - MCUXpresso IDE (/design/design-center/software/development-software/mcuxpresso-software-and-tools-/mcuxpresso-integrated-development-environment-ide:MCUXpresso-IDE)
 - MCUXpresso Config Tools (/design/design-center/software/development-software/mcuxpresso-software-and-tools-/mcuxpresso-config-tools-pins-clocks-and-peripherals:MCUXpresso-Config-Tools)
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