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INDUSTRIAL PRODUCT DATASHEET

# Freescale FRDM-KL25Z

The Freescale FRDM-KL25Z is a retired rapid prototyping platform with Kinetis KL25Z128VLK MCU, Arduino R3 compatibility, and OpenSDA debug interface.

| SKU | UPDATED | PRICE |
| --- | --- | --- |
| 103990013 | 2024-08-09 02:09:58 | $19.90(Excl. VAT) |



# Overview




The Freescale FRDM-KL25Z is a Freedom development platform for rapid prototyping of microcontroller-based applications, featuring a Kinetis L series MCU based on the ARM Cortex-M0+ core. This retired platform includes a KL25Z128VLK device with 48MHz operation, 128KB flash, and full-speed USB, along with onboard RGB LED, 3-axis accelerometer, capacitive touch slider, and OpenSDA debug interface.

# Key Features

This product is retired, please consider our **Arch** as your alternative choice.

The Freescale Freedom development platform is a set of software and hardware tools for evaluation and development. It is ideal for rapid prototyping of microcontroller-based applications. The Freescale Freedom KL25Z hardware, FRDM-KL25Z, is a simple, yet sophisticated design featuring a Kinetis L series microcontroller, the industry's first microcontroller built on the ARM? Cortex?-M0+ core.

FRDM-KL25Z can be used to evaluate the KL1 and KL2 Kinetis L series devices. It features a KL25Z128VLK, a KL2 family device boasting a max operating frequency of 48MHz, 128KB of flash, a full- speed USB controller, and loads of analog and digital peripherals. The FRDM-KL25Z hardware is form- factor compatible with the Arduino? R3 pin layout, providing a broad range of expansion board options. The on-board interfaces include an RGB LED, a 3-axis digital accelerometer, and a capacitive touch slider.

The FRDM-KL25Z is the first hardware platform to feature the Freescale open standard embedded serial and debug adapter known as OpenSDA. This circuit offers several options for serial communications, flash programming and run-control debugging.

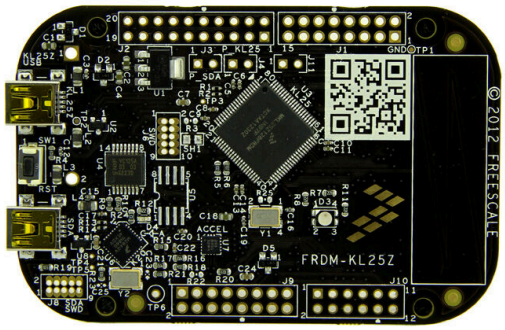
**Features**

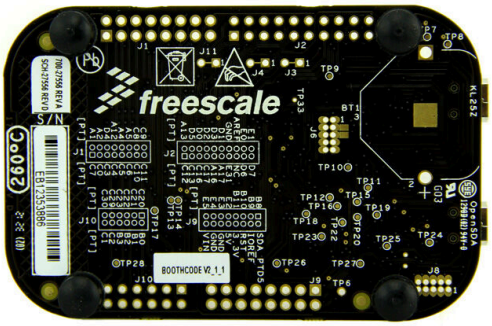
- Capacitive touch slider
- MMA8451Q accelerometer
- Tri-color (RGB) LED
- Flexible power supply options – USB, coin cell battery, external source
- Battery-ready, power-measurement access points
- Easy access to MCU I/O via Arduino ? R3 compatible I/O connectors
- Programmable OpenSDA debug interface with multiple applications available

**Resources**

- **FRMD-KL25Z User's Manual**
- **Getting Started with mbed**

# Product Gallery







## Compliance & Logistics

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# Resource Links

- https://www.seeedstudio.com/Freescale-FRDM-KL25Z-p-1420.html

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