

NXP FREEDOM PLATFORM

The Freedom development boards are small, low-power, cost-effective evaluation and development platforms perfect for quick application prototyping and demonstration of Kinetis MCU families and NXP sensors.



Kinetis K Series

The NXP ARM Cortex-M4 based Kinetis K series of Freedom development platforms are ideal for developing low-cost, low power applications to replace 8- and 16-bit devices with 32-bit performance. The Kinetis K series MCUs offer optimized performance, scalable integration and low-power capabilities. The hardware design is Arduino form-factor compatible, featuring Ethernet, crystal-less USB, scalable, secure and OpenSDA to simplify code development.



HIGH-PERFORMANCE

NXP Freedom K20

element14.com/FreedomBoard

FRDM-K20D50M

The NXP Kinetis K20 USB MCU family platform built on the ARM Cortex-M4 processor, featuring the OpenSDA, with easy access to MCU I/O, battery-ready, low-power operation, a standard-based form factor with expansion board options and a built-in debug interface for flash programming and run-control.



HIGH-PERFORMANCE

NXP Freedom K82F

element14.com/FreedomBoard

FRDM-K82F

Featuring a Kinetis K8x series microcontroller with advanced security capabilities including Boot ROM, Hardware AES acceleration and symmetric cryptographic acceleration along with full-speed USB 2.0 On-The-Go (OTG), including options for crystal-less device functionality.



HIGH-PERFORMANCE

NXP Freedom K22F

element14.com/FreedomBoard

FRDM-K22F

Featuring a Kinetis K22 Next-Generation MCU with an ARM Cortex-M4 core, the K22F is designed for high integration USB applications thanks to its crystal-less USB controller.



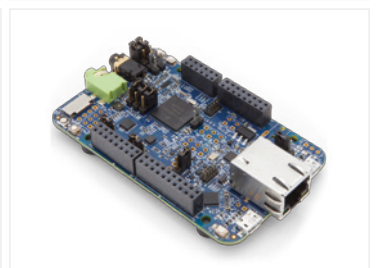
HIGH-PERFORMANCE

NXP Freedom K64F

element14.com/FreedomBoard

FRDM-K64F

Featuring a Kinetis K64 series microcontroller, built on the ARM Cortex-M4 core, offering IEEE 1588 Ethernet and full and high-speed USB 2.0 On-The-Go, 1MB of Flash, 256KB RAM, accelerometer and magnetometer.



HIGH-PERFORMANCE

NXP Freedom K66F

element14.com/FreedomBoard

FRDM-K66F

Featuring a Kinetis K66 series microcontroller, built on the ARM Cortex-M4 core, offering IEEE 1588 Ethernet and full and high-speed USB 2.0 On-The-Go, 2MB of Flash, 256KB RAM, accelerometer and magnetometer.