MCU bootloader for Kinetis Microcontrollers

The MCU bootloader for Kinetis microcontrollers is a configurable flash programming utility that operates over a serial connection on Kinetis MCUs.

MCU bootloader for Kinetis enables quick and easy programming of Kinetis MCUs through the entire product lifecycle from application development to final product manufacturing and beyond for updating applications in the field with confidence. The bootloader for Kinetis MCUs is delivered either as a full download of source code for users to build a customized bootloader, or pre-programmed on the Kinetis devices either in ROM or Flash. Host-side command line and GUI tools are available to communicate with the bootloader.

The bootloader was previously named Kinetis Bootloader (or KBOOT). It has been renamed to “MCU Bootloader” (or MCUBOOT). The MCU Bootloader is now integrated into MCUXpresso SDK as a middleware component.

**FEATURES**

- A common bootloader for Kinetis MCUs
- C/C++ source code provided under a permissive BSD open-source license
- Supported serial communications with active peripheral detection
  - UART
  - SPI
  - I2C
  - USB device HID/MSC
  - CAN
- Common packet-based protocol for all peripherals
- Support to program or boot from external flash memory
- Support to program encrypted image
- ROM flash driver usage examples
- Integrated into MCUXpresso SDK as a middleware component
Command-line host tools run on Windows®, Linux® and Mac OS® GUI host tool run on Windows
- Flash utility to program, erase, and configure the bootloader
- Manufacturing tool to support programming up to four devices simultaneously
- blhost command line tool to program, erase and configure the bootloader

IDE Support:
- MCUXpresso IDE
- IAR Embedded Workbench®
- Arm® Keil® microcontroller development kit (MDK)

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