

Feature-rich IDE for NXP's Kinetis and LPC Microcontrollers

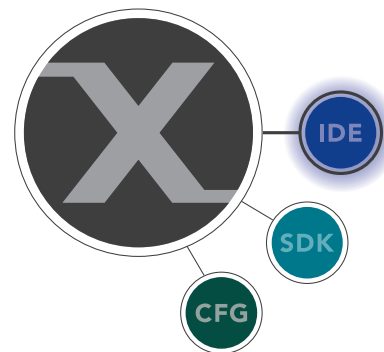
# MCUXpresso Integrated Development Environment (IDE)

Application development with Eclipse and GCC-based IDE for advanced editing, compiling, and debugging.

## MCUXpresso IDE

The MCUXpresso IDE enables powerful application development for NXP MCUs based on ARM® Cortex®-M cores, including LPC and Kinetis microcontrollers. The MCUXpresso IDE offers advanced editing, compiling and debugging features with the addition of MCU-specific debugging views, code trace and profiling, multicore debugging, and more.

- ▶ Feature-rich IDE optimized for ease-of-use
- ▶ Based on industry standard Eclipse and GCC providing a powerful application development environment
- ▶ Supports Freedom, Tower, LPCXpresso and your custom development boards with debug probes from NXP, P&E, and SEGGER
- ▶ Available in full-featured free (code size unlimited) and affordable professional editions (including MCUXpresso IDE email support and advanced trace features)



The MCUXpresso IDE is part of the cohesive suite of MCUXpresso Software and Tools, and is inherently compatible with MCUXpresso Software Development Kit (SDK) and the MCUXpresso Config Tools.

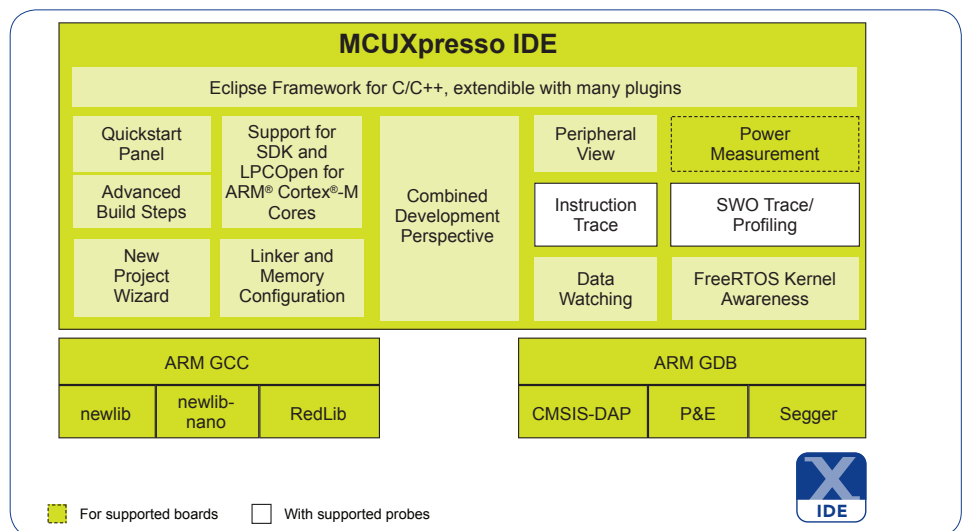
Designed to ease and accelerate embedded system development and optimization, the MCUXpresso Software and Tools bring high quality comprehensive enablement to NXP's Powerhouse Portfolio of microcontrollers built on ARM Cortex-M cores, including Kinetis and LPC MCUs. A shared software environment enables easy migration and scalability between Cortex-M core-based product portfolios.



## FEATURES

- ▶ A free-of-charge, code size unlimited IDE for Kinetis and LPC MCUs
- ▶ Based on extensible and feature rich Eclipse IDE with specific enhancements to simplify MCU application development and debugging
- ▶ Industry-standard GNU toolchain with a choice of libraries: ARM newlib C/C++ library, ARM newlib-nano library, and optimized small footprint NXP RedLib library.
- ▶ Combined support for LPCOpen and Kinetis SDK v2
- ▶ Small installation image with on-demand SDK and device support files
- ▶ SDK Wizard to create and clone projects
- ▶ Drag & Drop importing of MCUXpresso SDK packages
- ▶ Support for CMSIS-DAP debug probes, including SWO trace via LPC-Link2
- ▶ Support for P&E Micro and SEGGER debug probes
- ▶ Built-in support for FreeRTOS thread aware debugging and RTOS views
- ▶ Extendible with thousands of Eclipse plug-ins
- ▶ Advanced views for instruction trace, SWO Trace, profiling, data watching and peripheral viewing
- ▶ Supported host operating systems:
  - Microsoft® Windows® 7/8/10
  - Linux® (64 bit)
  - Mac OS X 10.10 and later
- ▶ Professional Edition also available for purchase, providing additional features and MCUXpresso IDE support entitlement

## MCUXpresso IDE BLOCK DIAGRAM



## GET STARTED:

Learn more:

[www.nxp.com/mcuxpresso/ide](http://www.nxp.com/mcuxpresso/ide)

Join the MCUXpresso SDK community:

<https://community.nxp.com/community/mcuxpresso/mcuxpresso-ide>

Professional Support & Services:

[www.nxp.com/services](http://www.nxp.com/services)

[www.nxp.com/mcuxpresso/ide](http://www.nxp.com/mcuxpresso/ide)