

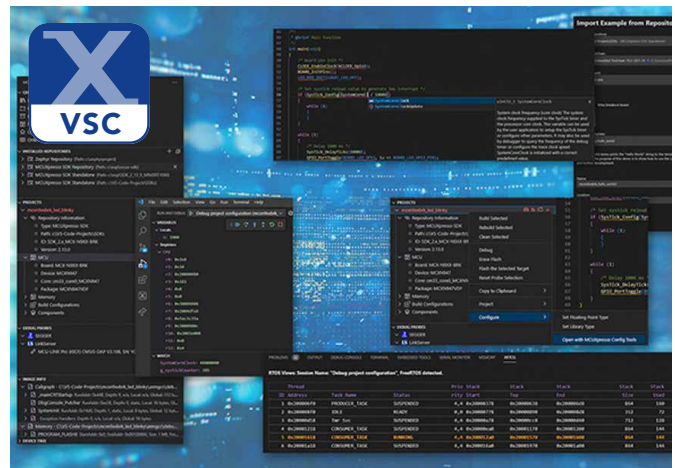
MCUXpresso for Visual Studio Code Supports NXP's Arm® Cortex®-M MCUs

MCUXpresso for Visual Studio Code (VS Code) provides an optimized embedded developer experience for code editing and development. The extension enables NXP developers to use one of the most popular embedded editor tools. MCUXpresso for VS Code supports NXP MCUs based on Arm® Cortex®-M cores including MCX, LPC, Kinetis and i.MX RT. MCUXpresso for VS Code allows developers the flexibility to work on projects from Zephyr, or MCUXpresso SDK in conjunction with Open-CMSIS-Packs.

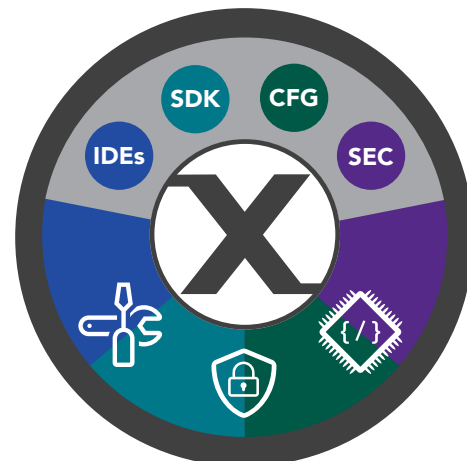
The extension provides full support for MCUXpresso software drivers and middleware, enabling developers to use this highly popular IDE for fast and responsive coding using MCUXpresso SDK. The extension is complemented by the easy-to-use MCUXpresso Installer, which manages the installation of all the other components needed such as Python, toolchains and debug probe drivers. Zephyr developers will find an optimized environment in VS Code that makes it more accessible to start exploring the capabilities of Zephyr.

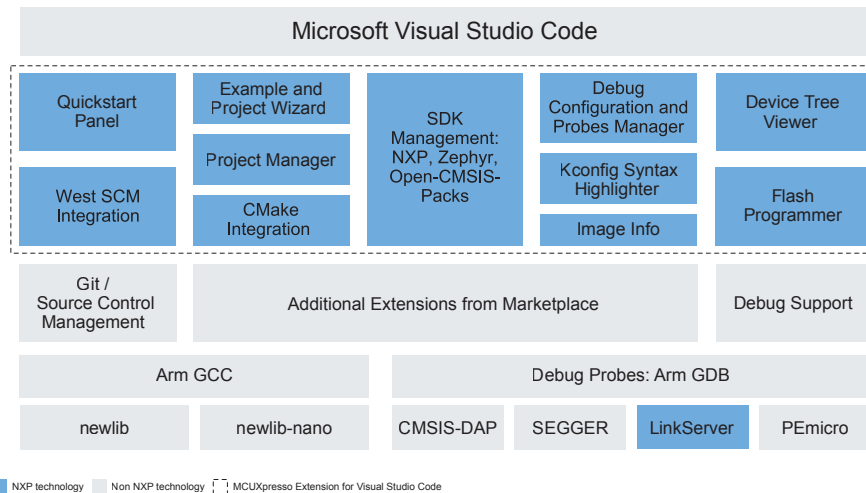
Benefits

- Fast. Quickly launch and get started
- Editor first and foremost
- Flexible Marketplace extensions
- CMake based projects
- Optimized Tools and Views for NXP developers



Designed to ease and accelerate embedded system development and optimization, the **MCUXpresso Software and Tools** ecosystem brings high-quality, comprehensive enablement to NXP's general-purpose, crossover and wireless enabled Arm Cortex-M-based MCUs, allowing easy migration and scalability between families.





VS CODE FEATURES

- **Fast** launch time from click-to-edit
- **Explorer** to view workspace/folders/files
- **GitHub** for source control management
- **Extension Marketplace** for new plugin features
- **Code editing** macros, multi-cursor, snippets
- **Terminal** integrated to run shell commands
- **Syntax highlighting** for readable C/C++ code
- **IntelliSense** code completion, parameter info, quick info, and member lists
- **Run and Debug** helpful tools
 - Toolbar: Continue/Pause/Step/Stop...
 - Breakpoints & Logpoints
 - Variables
 - Registers
 - Watch lists
 - Call Stack
 - RTOS/Thread Awareness
 - Peripheral View: Control/Status registers
- **Profiles** allow switching between extensions. Isolate setting conflicts. Allows sharing setup

Get Started:

Learn more: nxp.com/vscode

Join the [MCUXpresso for VS Code Community](#)

Professional Support and Services: www.nxp.com/services

www.nxp.com/vscode

NXP and the NXP logo are trademarks of NXP B.V. All other product or service names are the property of their respective owners. Arm, Cortex and TrustZone are trademarks or registered trademarks of Arm Limited (or its subsidiaries) in the US and/or elsewhere. The related technology may be protected by any or all patents, copyrights, designs and trade secrets. All rights reserved. © 2017-2024 NXP B.V.

NXP ENHANCEMENTS

- **MCUXpresso Installer** handles complex tool dependencies
- **Quickstart Panel** for most common operations
- **SDK Management**
 - Zephyr
 - MCUXpresso SDK
 - Open-CMSIS-Packs
- **Import/Create** Projects
 - Application Code Hub
 - SDK Examples
 - MCUXpresso IDE migration
 - ARM GNU Compiler (GCC)
 - CMake based
- **Debug Probe** configuration for LinkServer, SEGGER, and PEmicro
- **Image Info** of project static callgraph & memory
- **Heap & Stack Usage** displays memory use levels
- **Flash Programmer** with extended command UI
- **Devicetree** helps view/edit and create overlays
- **Kconfig Configuration** GUI launches from project
- **MCUXpresso Config Tools** launch for pins, clocks, peripheral and trusted execution