

# What is Core MCU Framework?

The Core MCU Framework is a specialized software platform designed for developing applications that run on microcontroller units (MCUs).

The goal of Core MCU Framework is to make it easy to move between various MCU processor platforms.

## Portability Across Different MCUs

One of the primary challenges in embedded systems development is dealing with the heterogeneity of hardware. Different MCUs have their own sets of instructions, peripherals, and memory architectures. Core MCU Framework aims to abstract these differences so that developers can write code that is portable across various MCU processors. This means you can take a program designed for one MCU and adapt it to another with minimal changes.

## Simplified Development Process

Core MCU Framework provides a collection of libraries and tools that simplify common tasks in embedded systems programming.

For example, Core MCU Framework offer standardized libraries for handling I/O operations, timers, interrupts, and other peripherals common to MCUs. This can significantly speed up the development process and reduce the learning curve when moving between different MCUs.

## Consistent API

A uniform application programming interface (API) across various MCUs allows developers to apply the same code structure and calls, regardless of the underlying hardware. Core MCU Framework's consistent API ensures that developers don't need to relearn command sets or libraries when switching MCUs, thus saving time and reducing errors.

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