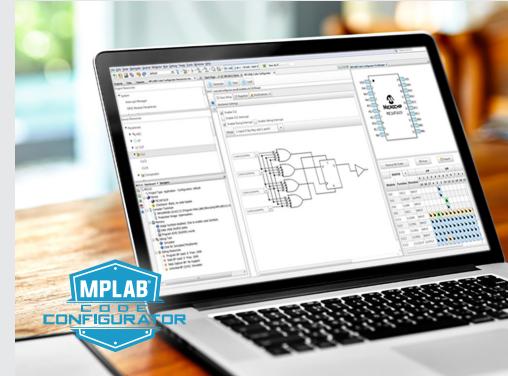


# MPLAB Code Configurator

Intuitive Code Development Tool for 8-, 16- and 32-bit PIC® Microcontrollers

## Summary

MPLAB Code Configurator is a free graphical programming environment that generates seamless, easy to-understand C code to be inserted into your project. Offering an intuitive interface, it enables and configures a rich set of peripherals and functions specific to your application. It is incorporated into MPLAB X Integrated Development Environment (IDE) and MPLAB Xpress cloud based IDE to provide a powerful and easy-to-use development platform. Supporting 8-, 16- and 32-bit PIC MCUs, MCC can be used to jumpstart your next design. It allows you to generate easily modifiable, production-ready application code for our broad portfolio of PIC MCUs in a few easy steps.



- Intuitive interface for quick start development
- Automated configuration of peripherals and functions
- Minimizes reliance upon product datasheet
- Reduces overall design effort and time
- From novice to expert
- Accelerates generation of production ready code

## MCC Supports click boards™

To help you bring your ideas to life even faster, we've added quick-start software libraries for MikroElektronika click boards into our award-winning MPLAB Code Configurator (MCC) plugin. Now, you can easily incorporate sensing, control, or communication functionality to your prototype design without the stress and hassle of low-level code development and validation.

## Range of Click Boards Supported

- Sensors
- Human machine interface
- Storage
- Mixed signal
- Wired and wireless communication

## Three Easy Ways to Get MCC

It's easy to add MPLAB Code Configurator to your development environment. Just choose one of the following options:

- Option 1: Install the MPLAB X IDE plugin
- Option 2: Use MPLAB Xpress cloud-based IDE
- Option 3: Manually install the MPLAB X IDE plugin

## Customer Testimonials

Don't just take our word for it. Here is what our customers have to say:

*"It was the tool I was looking for to speed up development with new boards."*

—Saul Ollenides, General Electric

*"I had five peripherals running in less than 30 minutes and this was the very first time I used this tool. I have configured registers by hand and I can safely say this program saves at least 90% of project startup time."*

—Craig Beiferman, Electrical/Software Engineer, Universal Laser Systems

*"It was quite easy. You could graphically see what you wanted to do and then go in and decide how you wanted to set things up and it took care of all the details."*

—Kevin Rochford, Senior Principal Engineer, Autoliv

*"We use the MCC all the time. It allowed us to do in two hours what took several days of digging through datasheets in the past."*

—Patrick Marcus, President, Marcus Engineering

*"Setup was a breeze."*

—Vincent D'Alessandro, Senior Design Engineer, Embedded Design Works

# How Can MPLAB Code Configurator Help You?

## Shorten Development Cycle and Time to Market

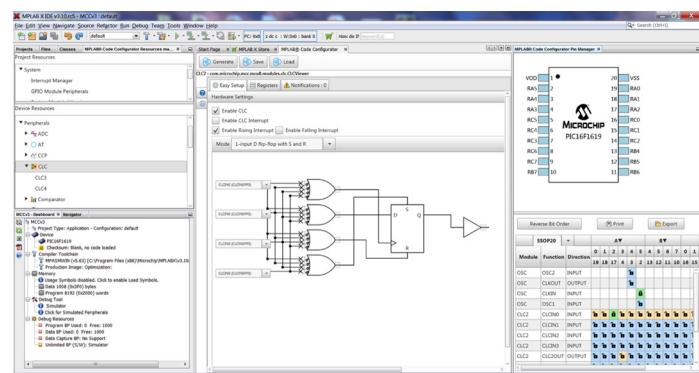
Getting started with a new device family used to require reading lengthy datasheets or manuals, understanding peripheral configurations and device settings and detailed knowledge of software libraries. MCC simplifies this by graphically displaying the relevant information for your selected device. It's an all-in-one tool that helps significantly reduce your development time.

## Accelerate your Hardware Development

The Peripheral Pin Select (PPS) feature on many PIC MCUs allows for flexible pin mapping or configuration without work-arounds in the application code. MCC provides a simple user interface for implementing Intelligent pin mapping where you can visually assign peripheral functions to pins. You also receive an alert when two or more peripherals are assigned to the same pin. Easy pin mapping simplifies your hardware development and MCC makes it faster to set-up.

## Develop with Confidence

Using MCC to configure a software library automatically configures the related device configuration and peripherals. The MCC tool reduces risk of unintended errors by ensuring device and peripheral configurations for specific libraries. MCC helps you develop applications faster with production-ready code libraries. Take advantage of our proven code libraries or add your own libraries into MCC.



## Generate Code while Conceptualizing

It can take hours to understand complex register settings and setting the right configuration for peripherals in your application. With the "Easy Setup" feature in MCC, you don't need to study the register level configuration details. You can graphically configure the peripherals based on your feature requirements. If you are an experienced developer and used to working at a register level, the "Easy Setup" feature will give you visual confirmation of the settings added at a register view.

## Features and Benefits

Features	Highlights	Benefits
<b>Integrated Configuration Tool</b>	<ul style="list-style-type: none"><li>Device and peripheral configuration</li><li>Software library configuration</li><li>High-level function management</li></ul>	Generate your code in no time and add it to your project from within the tool.
<b>Modular Architecture</b>	<ul style="list-style-type: none"><li>Modular distribution</li><li>Version handling</li></ul>	Choose your peripherals and libraries to customize your project.
<b>Integrated Software Libraries</b>	<ul style="list-style-type: none"><li>Bootloader generator</li><li>Communication stacks: LIN, TCP/IP Lite, USB</li><li>mTouch® Technology</li></ul>	MCC-supported software libraries can be added directly into your project.
<b>Flexible Pin Management</b>	<ul style="list-style-type: none"><li>Peripheral Pin Select (PPS) assignment</li><li>Pin conflict alerts</li></ul>	Assign peripheral functions to your choice of pins.
<b>Easy Configuration</b>	<ul style="list-style-type: none"><li>"Easy Setup" interface</li><li>"Registers" interface for advanced users</li></ul>	Scalable to support both novices and experts.
<b>Integrated Development Board Support</b>	<ul style="list-style-type: none"><li>Curiosity Development Boards</li><li>Explorer Development Boards</li><li>PICDEM™ Lab II Development Board</li></ul>	Use MCC and load the necessary drivers on selecting the board for quick and easy hardware setup.

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