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# MPLAB® PICKit™ 5 In-Circuit Debugger ☆

[Download Primary User Guide](#)

- Improved Programmer-to-Go (PTG) support with the MPLAB PTG mobile app
  - Connect wirelessly from your smartphone via Bluetooth®
  - Select from multiple saved program images on the SD Card
  - Start programming from the app or by pressing on the logo
- Supply 150 mA to the target
  - Option to be self-powered from the target (2.7V to 5V)
- Simplify your workspace

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- USB Type-C® connector and cable
- No external power needed when the device is powered by high-speed USB 2.0
- Use the eight-pin single in-line header
  - Supports JTAG, SWD, UART VCP
  - Adapter board allows use of standard connectors for JTAG, SWD, ICSP, and AVR Protocols
- Reduce Costs
  - Features and performance at a fraction of the cost of comparable debuggers/programmers

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## Overview

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Did you know that MPLAB® PICKit™ 5 is now supported in Microsoft® Visual Studio® Code (VS Code®) via our **MPLAB Extensions for VS Code**? These extensions are currently released under an early access program to allow users to provide us with feedback for additional development. Join the conversation and help us to refine and expand our offerings.

The MPLAB® PICKit™ 5 in-circuit debugger/programmer

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### Package Contents

- MPLAB PICKit 5 In-Circuit Debugger/Programmer
- USB Type-A to USB Type-C cable
- Two MPLAB PICKit 5 In-Circuit Debugger/Programmer stickers

programming for all Microchip devices, including PIC® microcontrollers (MCUs) and dsPIC® Digital Signal Controllers (DSCs), AVR® and SAM devices and Arm® Cortex®-based microprocessors (MPUs). It works alongside the MPLAB X Integrated Development Environment (IDE) to provide a powerful and easy-to-use Graphical User Interface (GUI) for debugging and programming. Alternatively, the MPLAB PICKit 5 in-circuit debugger/programmer can be used stand-alone with the MPLAB Programmer-to-Go (PTG) mobile app, allowing you to connect to the tool from your smartphone via Bluetooth®. With stand-alone programming features accessible from your smartphone, the MPLAB PICKit 5 in-circuit debugger/programmer is a versatile programming companion that lets you prototype and debug your solution and then unplug and bring the device with you to deploy that solution out in the field.

The MPLAB PICKit 5 supports a wide variety of interfaces such as four-wire JTAG or Serial Wire Debug (SWD) with streaming UART Virtual Comm Port (VCP), and with the **Debugger Adapter Board (AC102015)** can use standard connectors for JTAG, SWD, ICSP, and AVR Protocols. With the unique programmer-to-go function, the PICKit 5 can also be powered by the target board and program a default image simply by pressing the button hidden under the logo. You can also connect via Bluetooth using the MPLAB PTG mobile app and browse the micro SD™ card installed in the tool for a different image and start programming the target board right from the app.

**Note: The PICKit 5 is compatible with MPLAB X IDE version 6.10 and later. [Download Now.](#)**

### System Requirements

- Available USB 2.0 port
- Microsoft Windows® 10 or later, macOS®, or Linux®
- MPLAB X IDE version 6.10 or later

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### MPLAB X INTEGRATED DEVELOPMENT ENVIRONMENT (IDE)

MPLAB® X Integrated Development Environment (IDE) is an expandable, highly configurable software program that incorporates powerful tools to help you discover, configure, develop, debug and qualify embedded

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### MPLAB XC8 PRO FUNCTIONAL SAFETY COMPILER NETWORK SERVER LICENSE

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### DEBUGGER ADAPTER BOARD

The Debugger Adapter Board is a connectivity board that gives MPLAB ICD4 and MPLAB PICKit 4 Debugger cable compatibility with Atmel Debugger and Segger style connectors.

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## All Application Notes

## Documentation

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MPLAB PICKit 5 In-Circuit Debugger User's Guide

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