

mikroProg™ for PSoC® 5LP

mikroProg™ is a fast USB programmer and debugger.
Smart engineering allows mikroProg™ to support all
PSoC® 5LP microcontroller family.



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Introduction to mikroProg™



mikroProg™ for PSoC® is a fast programmer and hardware debugger. It's a great tool for programming the Cypress® PSoC® 5LP microcontroller family. Outstanding performance, easy operation, elegant design and affordable price are its top features.

Key Features

What you see

- 01 Flat cable
- 02 USB MINI-B connector
- 03 DATA transfer indication LED
- 04 ACTIVE indication LED
- 05 LINK indication LED
- 06 POWER indication LED



1. Installing Drivers and Programming Software

Before you start working with mikroProg™ for PSoC® SLP, you'll need to download **PSoC® Programmer™**, a programming application with the necessary drivers included. Download it from Cypress' website (registration required):



<http://www.cypress.com/?rID=38050>

Make sure to disconnect mikroProg™ before installing drivers. Double click on the setup file to begin installation of the programming software.



PSocProgrammerSetup_3.20.0.1823
.exe
Win32 Cabinet Self-Extractor

After the installation is complete, you can connect the programmer to your PC using the USB cable provided in the package.

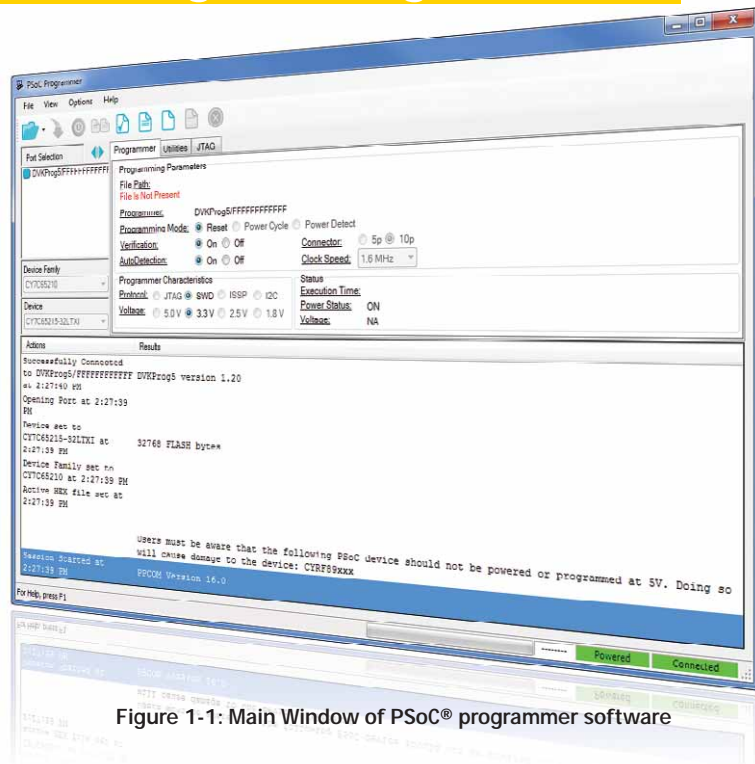
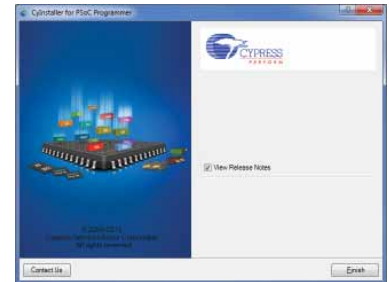
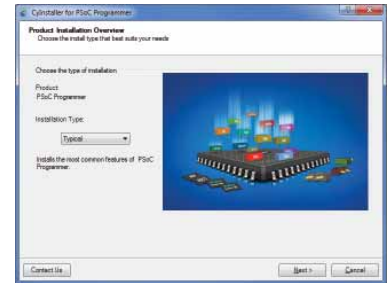
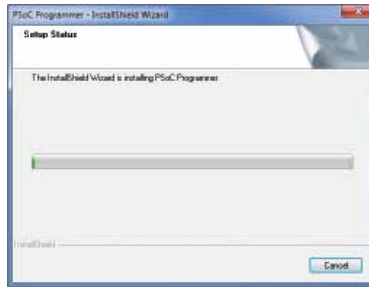
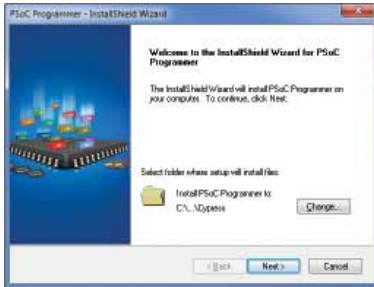


Figure 1-1: Main Window of PSoC® programmer software

Software installation wizard



2. Connecting to the Target Device

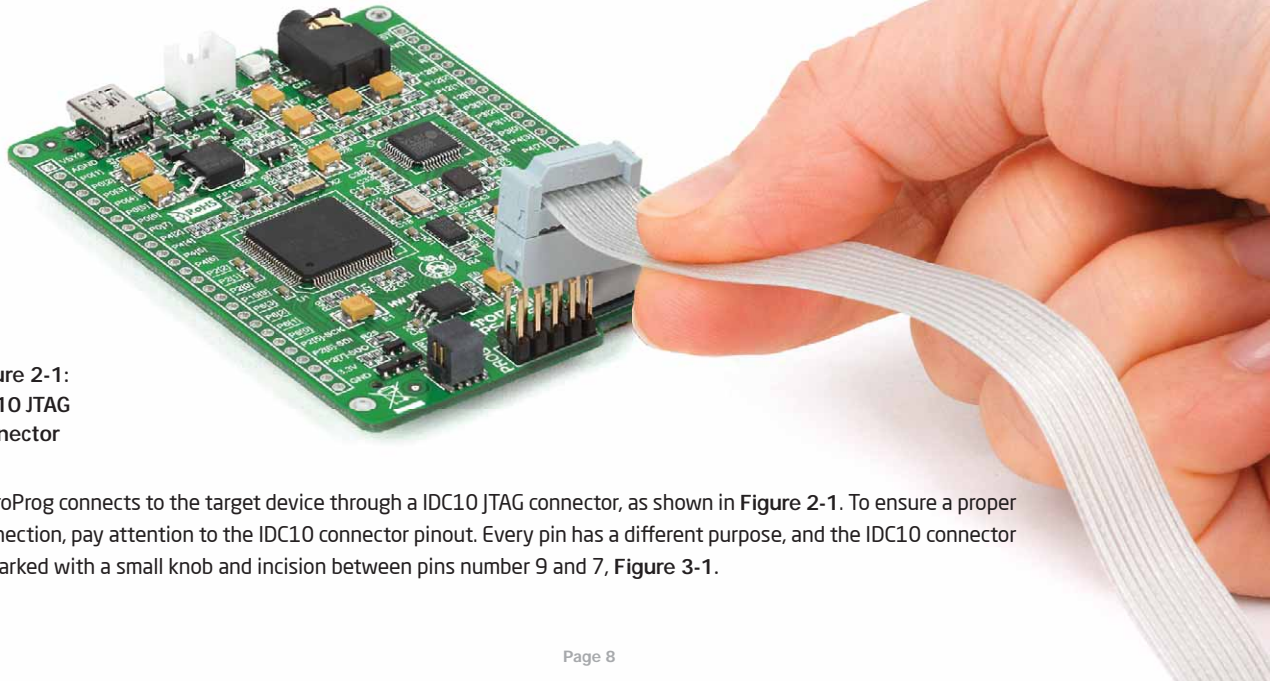


Figure 2-1:
IDC10 JTAG
connector

mikroProg connects to the target device through a IDC10 JTAG connector, as shown in **Figure 2-1**. To ensure a proper connection, pay attention to the IDC10 connector pinout. Every pin has a different purpose, and the IDC10 connector is marked with a small knob and incision between pins number 9 and 7, **Figure 3-1**.

3. Connector Pinout

01 VCC-3.3V - MCU power supply

03 GND - Ground

05 GND - Ground

07 GND - Ground

09 GND - Ground

02 SWDIO - SWD data I/O

04 SWDCK - SWD clock

06 SWO - Serial wire output

08 NC - Not connected

10 XRES - System Reset

Programming/
debugging lines

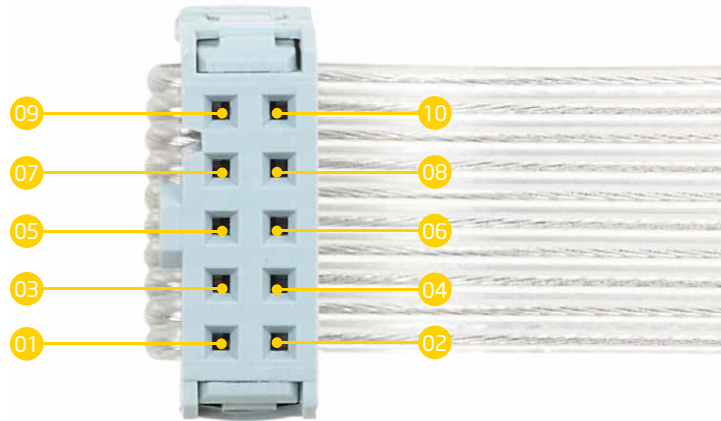


Figure 3-1: Female connector pinout

4. Connection Schematic Example

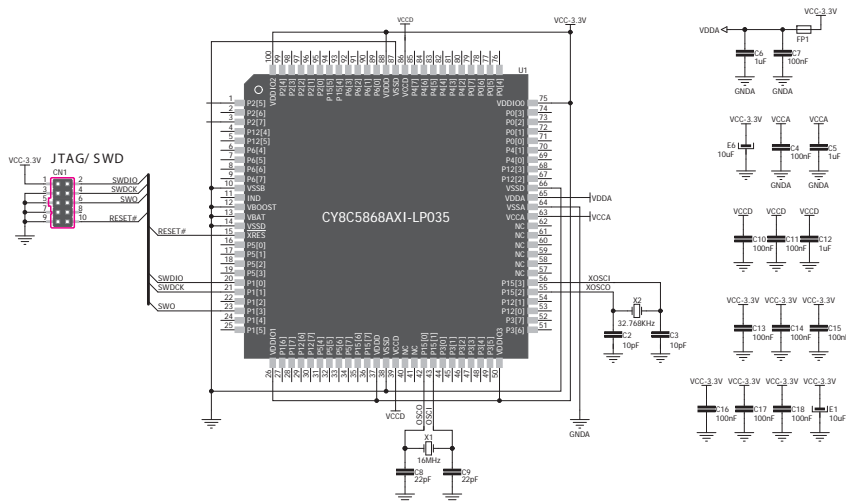
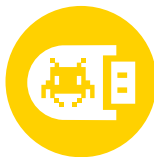


Figure 4-1: Connection schematic for 100-pin CY8C5868AXI-LP035 MCU via 2x5 male headers

This example demonstrates connections with one of the most popular supported microcontrollers **CY8C5868AXI-LP035**. MCU uses SWDIO, SWDCK, TWO and RESET lines for SWD programming.



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