

mikroProg™ for PSoC® 5LP

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

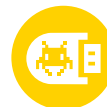


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Introduction to mikroProg™



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.

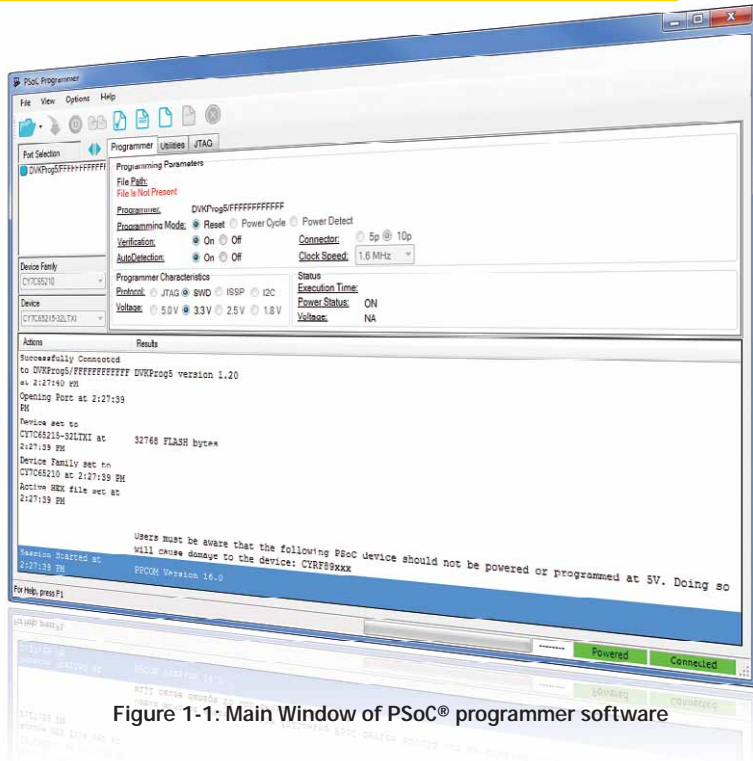
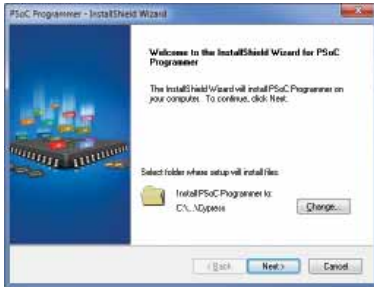
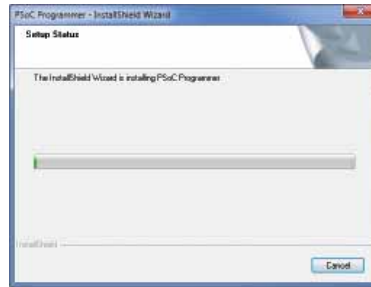


Figure 1-1: Main Window of PSoC® programmer software

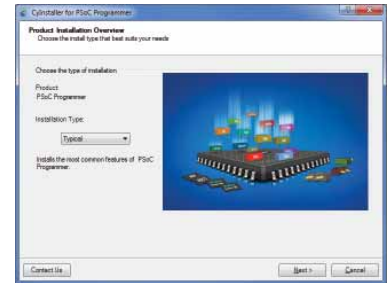
Software installation wizard



01 Start Installation



02 Setup



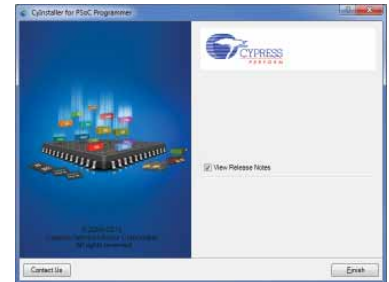
03 Installation type



04 Accept license agreement



05 Installation in progress



06 Finish installation

2. Connecting to the Target Device

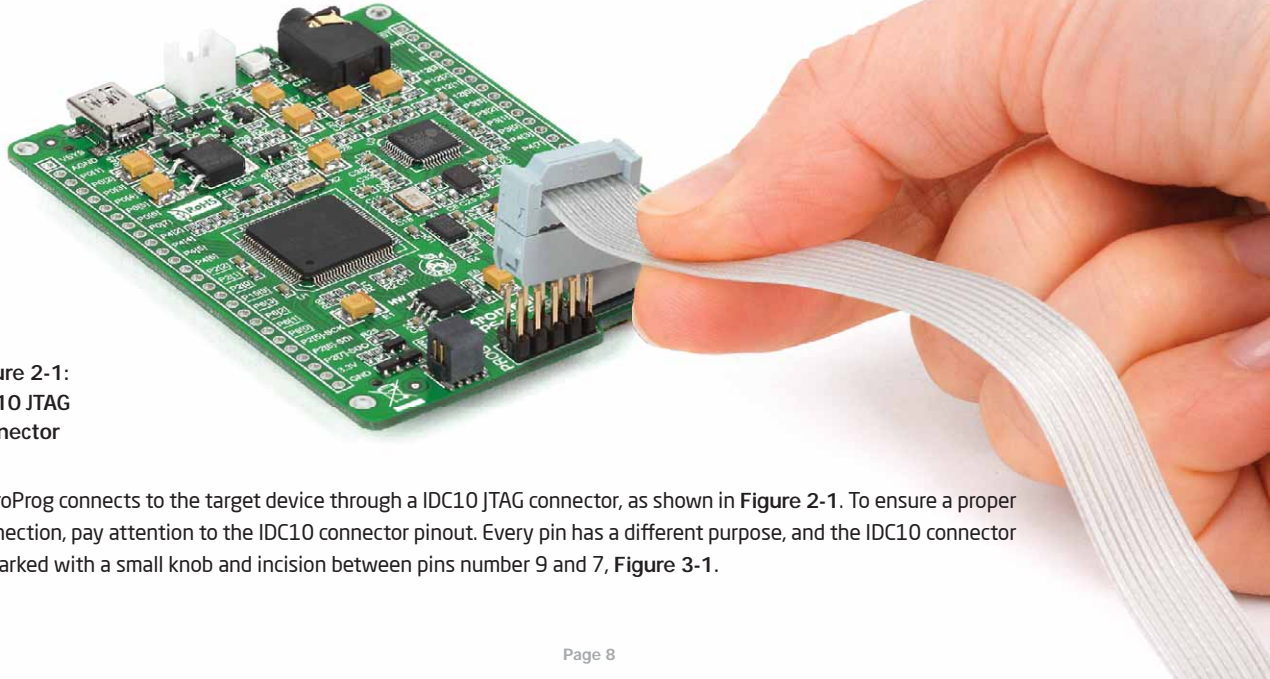


Figure 2-1:
IDC10 JTAG
connector

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

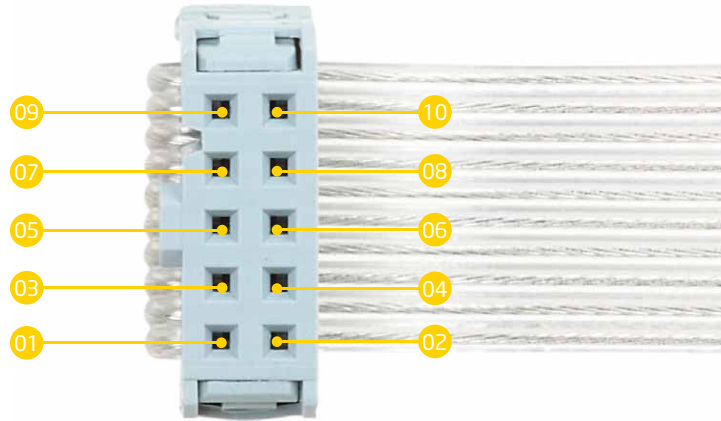


Figure 3-1: Female connector pinout

4. Connection Schematic Example

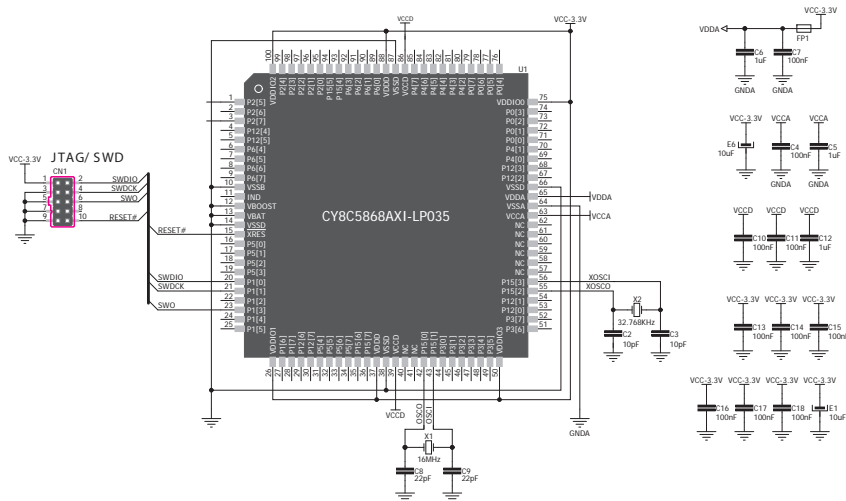


Figure 4-1: Connection schematic for 100-pin CY8C5868AXI-LP035 MCU via 2x5 male headers

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

