mikroProg™ for PSoC® 5LP

mikroProg™ is a fast USB programmer and debugger. Smart engineering allows mikroProg™ to support all PSoC® 5LP microcontroller family.
I want to express my thanks to you for being interested in our products and for having confidence in MikroElektronika.

The primary aim of our company is to design and produce high quality electronic products and to constantly improve the performance thereof in order to better suit your needs.

Nebojsa Matic
General Manager

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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® 5LP, 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](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.

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](image-url)
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

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

Figure 3-1: Female connector pinout
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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