

LaPi Development Kit: “Out-Of-Box Guide”

Introduction:

Thank you for purchasing our LaPi Development Kit. This LaPi kit will allow you to start creating your own applications using our powerful LAPIS microcontrollers (mcu). This board has 2 re-programmable mcu's on it, each pre-programmed with firmware that will allow them to communicate out of the box with a simple Graphical User Interface (GUI) that we have developed. The GUI will allow you to plug your LaPi board into your computer over a USB interface, so that you can control any I/O pin on the device, including the UART, GPIOs, and I2C Bus controller.

Here are the 3 Steps to Install, Update and start using this system...

- 1.) Verify that the LaPi Evaluation Board is configured the way you need it.
- 2.) Review Documentation, Sample Code, and other useful files on USB Flash Drive - Connect the LaPi Dev Board to your computer using a USB cable. The drivers for the USB interface are located in the directory `\FTDI Virtual Com Port Drivers`. You should copy most of the files from the USB Flash drive to your computer. Run the windows program `...\LaPi_StartingSoftware_REV01\LaPi - PC Application\LaPi_ControlSoftware_1-14-2014_rev01.exe` to start the GUI communicating with the board. The programs on the mcus will operate with or without the debugger connected to the device.
- 3.) The code development tool used to write and debug code on the devices are provided on the USB FLASH Drive in the directory `\U8 Dev Suite Install File`. The tools run on Windows XP, Vista* and 7* (* = 32 (x32) bit or 64(x64) bit versions). You will have to log in as administrator to install in some of these environments. Refer to **Release Note-e.pdf** for detailed install directions. To assure that you are using the latest tools register at the LAPIS Semiconductor Low Power Micro Support site: <https://www.lapis-semi.com/customer/lpmcu/login.html>

The projects that are preprogrammed on the ML610Q111 and 112 devices are located in the directory `...\LaPi_StartingSoftware_REV01\LaPi - Q111 - Default Firmware (Release)` and `...\LaPi_StartingSoftware_REV01\LaPi - Q112 - Default Firmware (Release)` respectively. Make sure that the project that you choose corresponds to the device that the GUI is connected to.

To see if new projects are available visit the LaPi Dev Kit section of <http://www.rohm.com/web/global/low-power-microcontroller> or contact LaPiDevKitSupport@rohmsemiconductor.com

