

YKUSH3

Firmware Update Guide

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Conteúdo

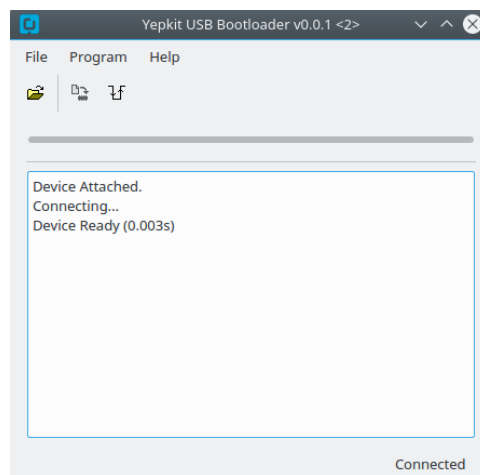
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1. Update YKUSH3 boards firmware through USB

The YKUSH3 board bootloader has the capability to program the device with firmware images received through USB. To do so a host application capable of interacting with the board bootloader is required.

The bootloader is compatible with the Microchip MLA utilities HIDBootloader application which can be used to program new firmwares to the YKUSH3 boards.

To update the firmware using the USB you will need the firmware update tool which allows to import firmware images and load them to YKUSH3 boards using the USB connection.



This application is available for download at the YKUSH3 product page¹.

To update the firmware follow these steps:

1. Connect the board to your PC through USB;
2. Set the board into bootloader mode by connecting GPIO 1 and GPIO 2 pins to High and resetting the device (e.g., disconnecting and reconnecting the board power), when the LED indicator starts to slow blink the board is in bootloader mode;
3. Open the firmware update tool (run the HIDBootloader for Linux and ykush3_firmware_update.bat for Windows);
4. Load the firmware binary file by clicking Import Firmware Image;
5. Program the new firmware image by clicking Erase/Program/Verify Device;
6. Once the programming process has finished, reset the device by clicking Reset Device.

1.1. Get the firmware update tool for Windows

Download the “Firmware update tool - Windows” package from YKUSH3 product page. Extract the contents of the zip file and enter the extracted directory. In there you will find the ykush3_firmware_update.bat which should be run to start the YKUSH3 firmware update tool.

¹www.yepkit.com/product/300110/YKUSH3

This tool is based on the Microchip MLA HIDBootloader application binaries for Windows. Refer to <http://www.microchip.com/mplab/microchip-libraries-for-applications/mla-license> for MLA licensing details.

1.2. Build the firmware update tool for Linux

Start by downloading the “Firmware update tool source code - Linux e Windows” package from YKUSH3 product page. Extract the zip file and enter the package folder. In the root package folder run `make` to build the project. Please note that you will need the Qt5 toolkit to be installed in your system to build the application.

Once built run it by clicking on the **HIDBootloader** executable file in `Bootloader/linux/` folder.