

MicroPython Setup Guide

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Revision History

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1. Getting Started

This manual contains instructions for the version of MicroPython developed for use with Studuino:bit (StuduinoBit_Micropython).

2. StuduinoBit_MicroPython

2.1. Source Code

StuduinoBit_Micropython is developed using git to manage the source code. The latest source version can be found at https://github.com/artec-kk/StuduinoBit_MicroPython on GitHub.

2.2. Firmware

The complete firmware with StuduinoBit_MicroPython included can be downloaded here:

<https://www.artec-kk.co.jp/artecrobo2/data/sbmp-20190419-v0.9.bin>

3. Installing the Firmware

Use the program `esptool.py` from the URL below to install your firmware to the Studuino:bit.

<https://github.com/espressif/esptool>

If this is the first time you're installing firmware on your Studuino:bit, use `esptool.py` to format your Studuino:bit's flash memory.

```
esptool.py --chip esp32 --port /dev/ttyUSB0 erase_flash
```

Install the firmware starting at address 0x1000 as shown below.

```
esptool.py --chip esp32 --port /dev/ttyUSB0 --baud 1500000 write_flash -z 0x1000 sbmp-20190419-v0.9.bin
```

When you've finished installation, reset your Studuino:bit hardware. Now REPL should appear when you connect the hardware to your terminal software. If you intend to use the Studuino:bit-specific library, please consult the **ArtecRobo 2.0 Class Library Reference** manual.

<https://www.artec-kk.co.jp/artecrobo2/en/software/python.php>