

# Updating your micro:bit firmware

## What is the micro:bit firmware?

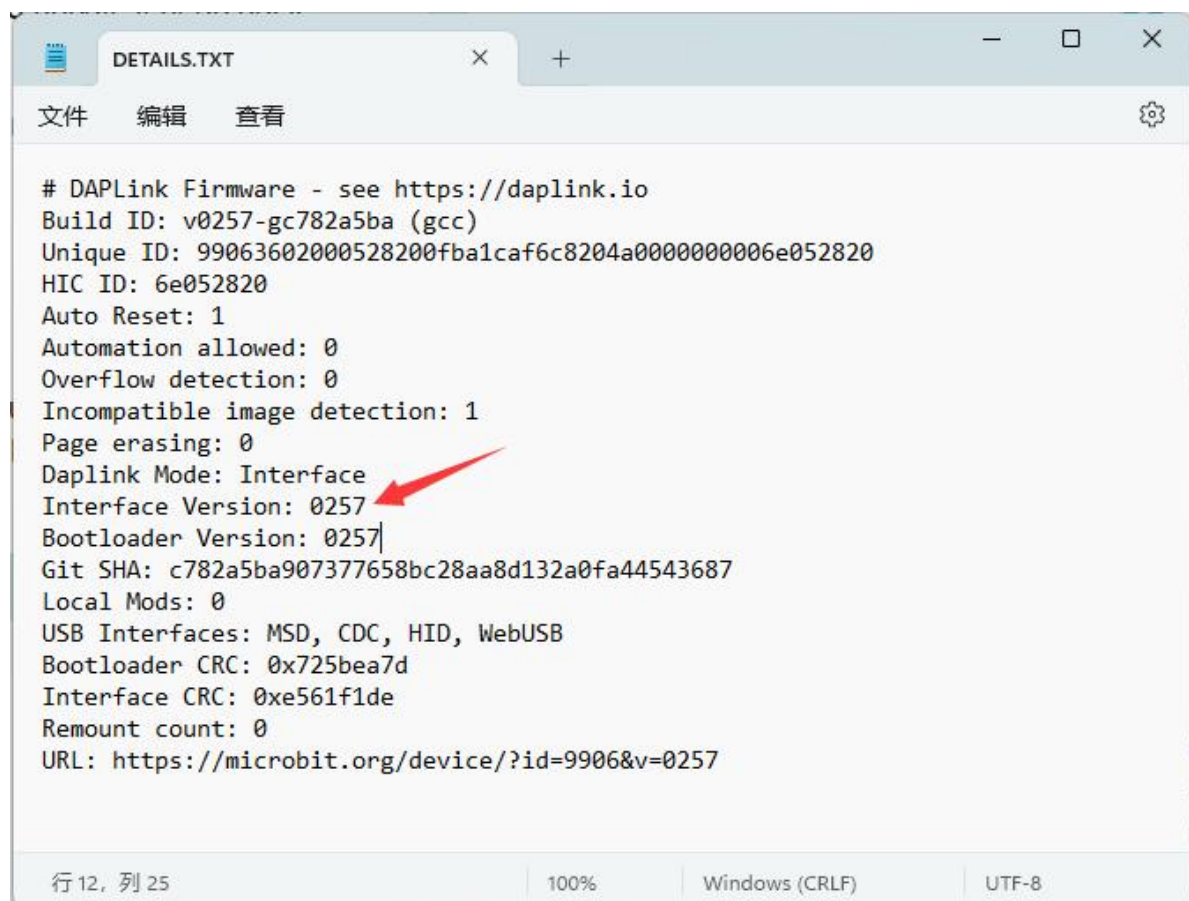
Firmware is a special kind of software that makes devices function properly. You can think of it as the software that makes a machine behave the way it does. The micro:bit has two chips on the back of it; one of them runs your code, while the other one runs the firmware to enable you to program the device.

The micro:bit will work with the firmware it came with, so if you don't need to update it head back to our [guide to the micro:bit features](#).

There may be times when you may want to update the firmware to [test out new software features](#). If that's the case, this page will show you how to do it.

## How to find out the current firmware version

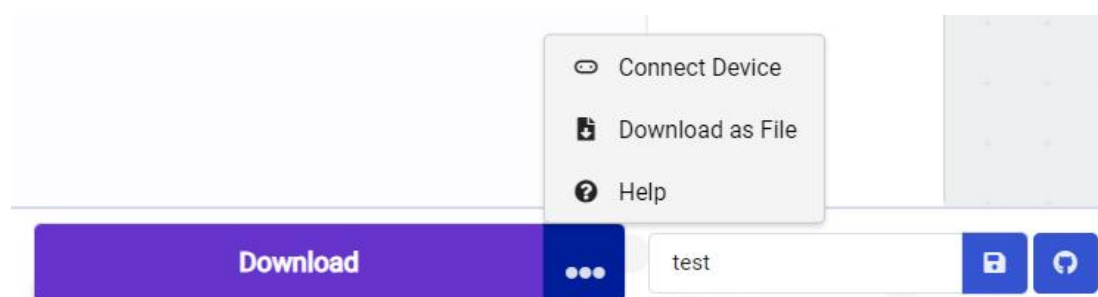
Before you upgrade, you'll want to find out what version of the firmware you have on your micro:bit. **Plug it in via USB**, open up the **DETAILS.TXT** file from the **MICROBIT** drive and look for the number on the line that begins 'Interface Version'.



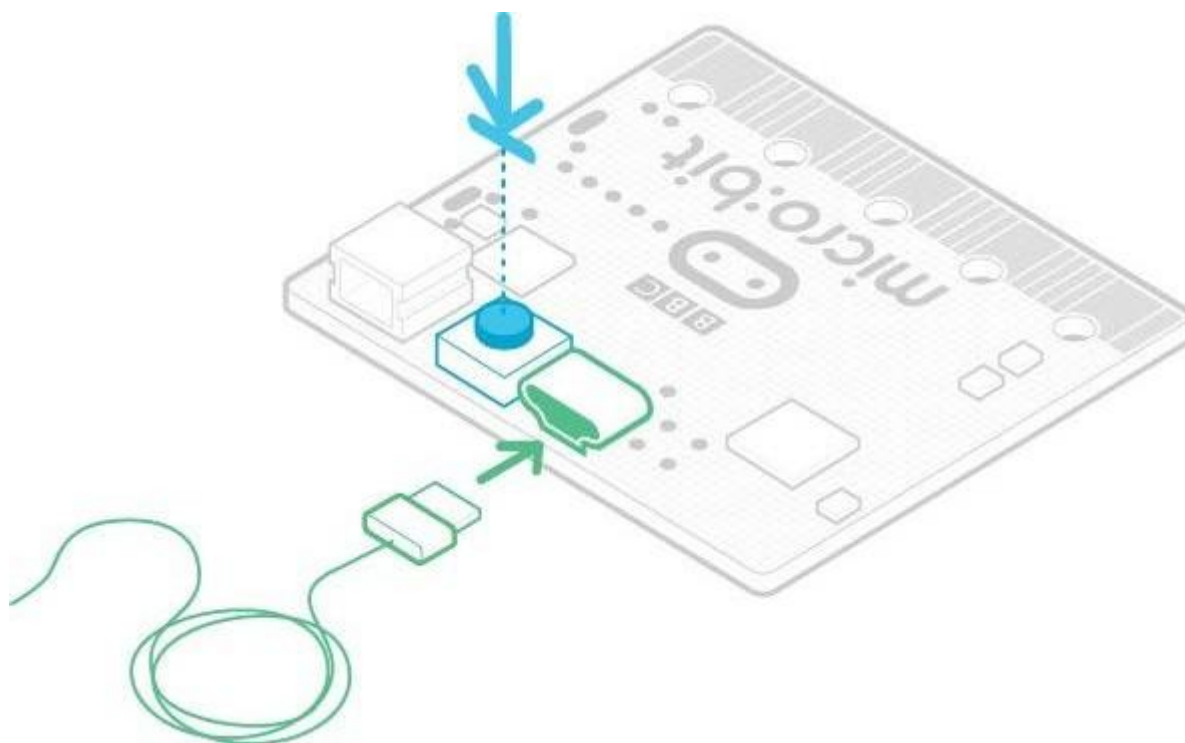
```
# DAPLink Firmware - see https://daplink.io
Build ID: v0257-gc782a5ba (gcc)
Unique ID: 99063602000528200fba1caf6c8204a0000000006e052820
HIC ID: 6e052820
Auto Reset: 1
Automation allowed: 0
Overflow detection: 0
Incompatible image detection: 1
Page erasing: 0
Daplink Mode: Interface
Interface Version: 0257
Bootloader Version: 0257
Git SHA: c782a5ba907377658bc28aa8d132a0fa44543687
Local Mods: 0
USB Interfaces: MSD, CDC, HID, WebUSB
Bootloader CRC: 0x725bea7d
Interface CRC: 0xe561f1de
Remount count: 0
URL: https://microbit.org/device/?id=9906&v=0257
```

# How to update the firmware

1. Enter the online editor: <https://makecode.microbit.org/#editor>
2. Download the hex file from this page to your computer.



3. Then with the battery pack removed and a USB lead connected to your computer, hold the reset button at the back of the micro:bit and plug the USB lead into the device. You should see a drive appear in your file manager called **MAINTENANCE**.



4. Drag and drop the .HEX you downloaded from this page onto the micro:bit and wait for the yellow system LED on the back of the device to stop flashing. When the upgrade is completed, the micro:bit will reset, ejecting itself from the computer and re-appear in normal **MICROBIT** drive mode.
5. Finally, check the **DETAILS.TXT** file that is on the **MICROBIT** drive and make sure that it has the same version number as the .HEX firmware that you just downloaded and flashed to the interface chip.