

# Resetting the STM32

Sometimes things go horribly, horribly wrong...

When this happens and you lose all contact with the microcontroller, there are only two options:

1. Unplugging the USB-cable and plugging it back in.

And if that doesn't work?

2. Deleting everything stored in the memory of the MCU!

To accomplish this you will need STM32 ST-LINK Utility running on your computer (you can find the install files on DTU Inside). Then do the following:

- Open STM32 ST-LINK Utility.
- Connect the microcontroller.
- Go to Target -> Settings.
- Change Mode from "Normal" to "Connect Under Reset" and click OK.
- Now click on Target -> Connect.

You should now see "STM32F301x4-x6-x8/F302x4-x6-x8/F318xx" written in the Device field to the right. If this is not the case then things have gone horribly, horribly, HORRIBLY wrong. In that case disconnect the USB cable, hold down the Reset button on the MCU, and reconnect the cable while still holding down the Reset button. Then try clicking on Target -> Connect again. You can now release the reset button. Try this a few times if it doesn't work immediately. If you don't have any success with this, things have gone horribly, horribly, HORRIBLY, *HORRIBLY* wrong and you should ask for help!

If you do succeed in connecting with the microcontroller, please do the following:

- Go to Target -> Erase Chip.
- Click OK on the pup-up dialog.

Hopefully, that should do the trick and make communication possible again.

**Before you go any further**, please consider this: there is probably a good reason why your MCU stopped working. So please check your code for obvious mistakes that might have caused this before you reupload your software. Specifically, you should make sure that you are not reconfiguring any of the pins colored red in the forbidden pins diagram. These is a reason why it's called that!