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8 Bit Board Bootloader Flashing guide – For 1284p CPUs

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Product Information

Unified 2 Firmware

Home (https://www.th3dstudio.com/) > **Help Center (https://support.th3dstudio.com/)** >
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8 Bit Board Bootloader Flashing guide – For 1284p CPUs

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For 8 Bit Boards ONLY

The bootloader information here is only to flash the bootloader. This is only for the 1284p boards.

If you have a 32 bit board they already have bootloaders on them. Do NOT try to load a bootloader with this guide or our hardware if you have a 32 bit board.

Getting Started

Once you complete the bootloader steps in the video below you are ready to flash the firmware. Disconnect the UNO from the board and connect the printer board to your computer to flash the firmware.

Important things to note **before** watching the video.

- The new CR-10 Board does NOT have a jumper on it. You can still flash just skip the jumper step.
- If you have a jumper MOVE IT BACK to VREG when you are done.
- As long as your UNO LED is flashing at a steady rate (fast or slow, doesn't matter) the UNO is ready to accept the programmer sketch
- Make sure you select Arduino as ISP for the programmer or it will NOT work!
- Remove any SD cards from the board BEFORE flashing the bootloader. The pins are shared with the programming header.
- Follow the video guide and then check out the firmware page (https://www.th3dstudio.com/hc/?top-category=downloads) to flash your firmware.

Bootloader Flashing Package Download

Since Unified 1 is being discontinued, we have packaged up a small Arduino IDE package just for flashing the bootloader. The directions in the bootloader video still apply when using this new package. **Open "OpenBootloaderWindows.bat" to launch the package.**

TH3D Bootloader Flashing Package	
DOWNLOAD	
361 MB	50 downloads

This bootloader package and directions are designed for use with the TH3D Uno Bootloader Flashing Kit (https://www.th3dstudio.com/product/arduino-uno-bootloader-flashing-kit/)

Bootloader Flashing Guide Video

Bootloader Flashing Guide - CR-10/Ender 2/Ender 3/Ender 5/X3S/X5S/Wanhao i3 - 1284p Boards

This is the guide you need to flash the bootloader for the machines that have 1284P boards in them. They are:

- **CR-10 – ALL Sizes**
- **Ender 2**
- **Ender 3**
- **Ender 3 Pro**
- **Ender 5**
- **Ender 5 Pro**
- **Anet Machines**
- **Wanhao i3**

Hardware is required and we sell a kit here: **TH3D Uno Bootloader Flashing Kit (https://www.th3dstudio.com/product/arduino-uno-bootloader-flashing-kit/). If your machine is not listed above then it already has a bootloader on it we try to keep the list updated above. If you are in doubt and are a customer please contact our support using the contact us link at the top of this page.**

Did you get a bad flash on your 2560 Creality board? Read here (https://www.th3dstudio.com/knowledgebase/creality-v2-0-v2-1-v2-2-board-atmel-2560-icsp-programming-header-pinout/)on how to re-flash the board.

Getting a "avrdude: stk500_recv(): programmer is not responding" error? This means that the bootloader did not flash to the board. Make sure to check your wires and that you flashed the Arduino Uno with the "ArduinoISP" sketch per the video guide above.
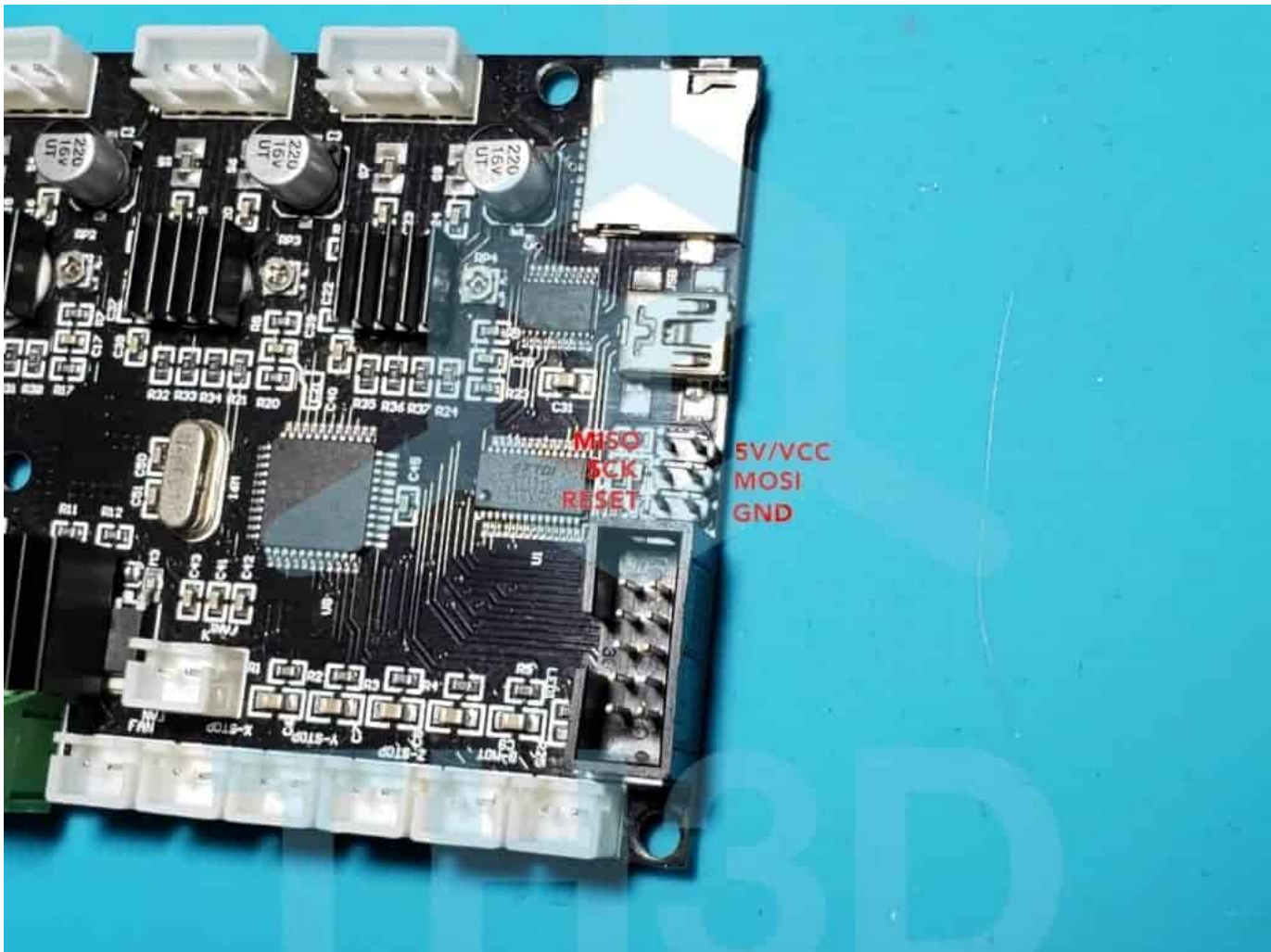
ICSP Header Pinout Images
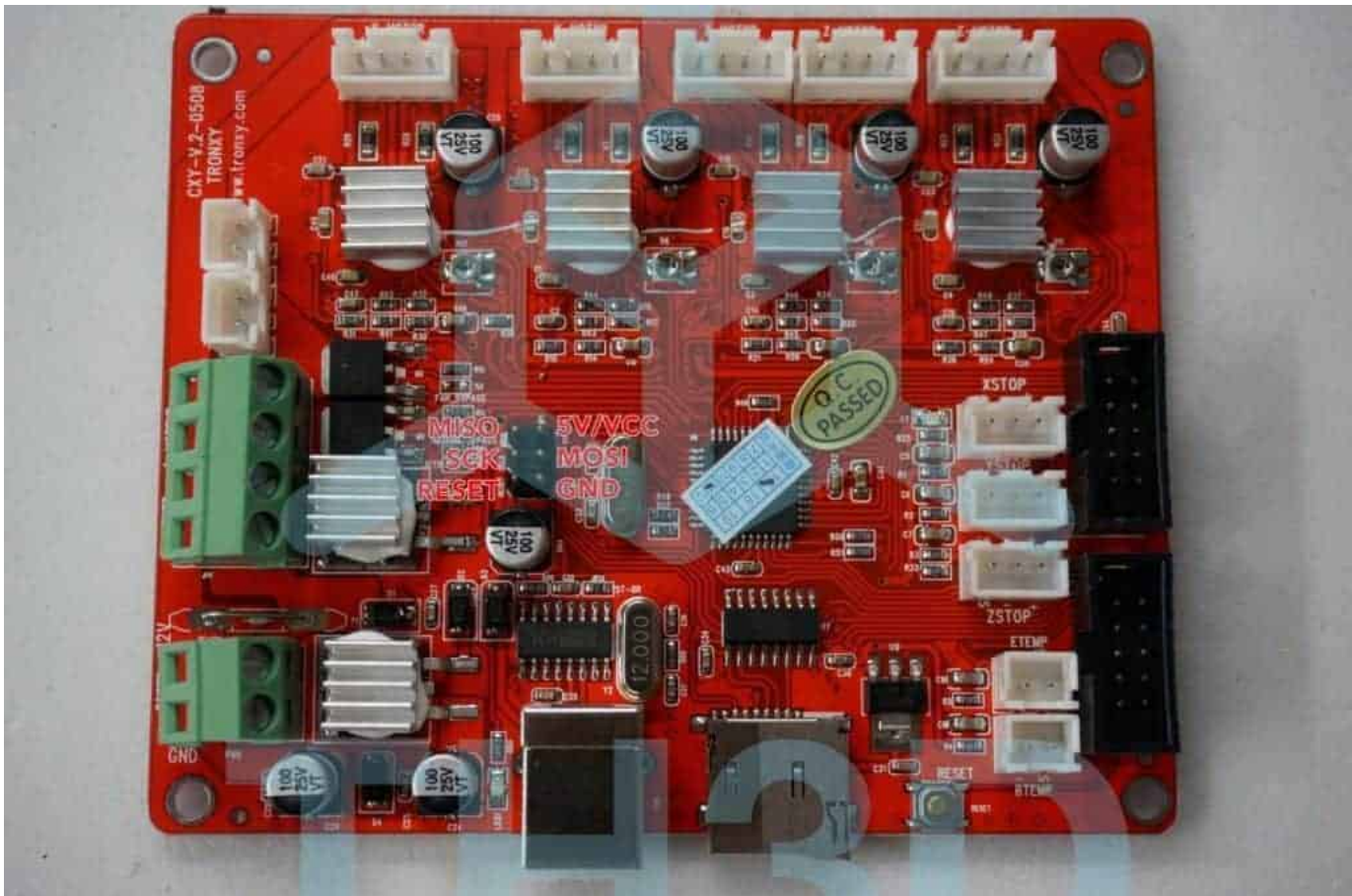
UNO Header Pinout

Wanhao i3 Melzi

Creality Melzi

TronXY Melzi Green

TronXY Melzi Red

Anet Melzi