Adding a Klipper based 3D Printer

using Katapult or formerly known as CanBoot.

List of do not's

failing to follow this list means a new requirement to write very low level code for the board from scratch.

- turn of SWD(this is a last resort option that is untested(stated by their github!)

List of do's

Reccommended directly from katapult github or from experience

- DO have a backup method of reovery such as DFU, uart backing up stock bootloader.

For our specific set up we used the SKR mini E3 V3 that has an STM32G0B1

That last portion G0B1 dictates if it can be flashed via USB or CANbus

G0B1 our version is only 'Flashable' via CANbus

both are able to be reflashed via SD card so that was our solution.

Regular install via Repetier

We installed a general config for the board that came from the klipper github(they aslo describe how to install with a generic if there the specific board is not on there) placed in SD or ready to transmit to board

when you add a printer give it the version capable labeled no repetier.

Install via Update

Find the serial port you will be using the printer on first.

ls /dev/serial/by-id/ while ssh'ed into the computer that is meant to control the klipper based printer.

This will find us the USB port.

dmesg -wH can hellp you find if the printer is being connected at all as faulty USB's might make it hard to tell from time to time.

go to klipper config on repetier

triple dots on the side and hit build microcontroller

download .bin from repetier at the klipper config section

send ur .bin file and rename it to firmware.bin

then plug it into generic printer

power on the printer

(an optional sanity check test)

power down printer remove the printer and open it on a windows computer the filetype should now be .cur file meaning it implemented the firmware to the board.

reference to github here - *NOTE: Prior to flashing Katapult it is recommended to do a full chip erase. Doing so allows Katapult to detect that no application is present and enter the bootloader. This is required to enter the bootloader if you have not configured an alternative method of entry.*

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