

Connect the Raspberry Pi via UART

n order to use the only hardware serial port of the Raspberry Pi, you need to disable the console function and map the hardware serial port to

USB *1 Thermistor Jumper Pads: V2.0 Type-C USB-C_D+ PA12

about any of the information

provided on this PIN Diagram,

please ask for help from the 3D

printer community, check the

Processor's data sheet and the

"UART"

board's schematic diagram.

MKS Monster 8 boards have additional Jumper Pads which are located on the back side of the board. These Jumper Pads can be soldered together or cut so that you can change if a pull-up resistor is used or not used. Please see the MKS Monster 8

If you are unsure

USB-C_D- PA11 schematic diagram and look for the following labels: "JP1", "JP2", "JP3", and "JP4".

Marlin 2.0.x Firmware Changes:

Each Thermistor Port is labeled (TB, TH0, TH1 and

+3.3V (SND (SND)

In Platformio.ini file change: default_envs =

mks_monster8_usb_flash_drive

In Configuration.h file change: #define SERIAL_PORT -1

#define SERIAL PORT 21 #define MOTHERBOARD

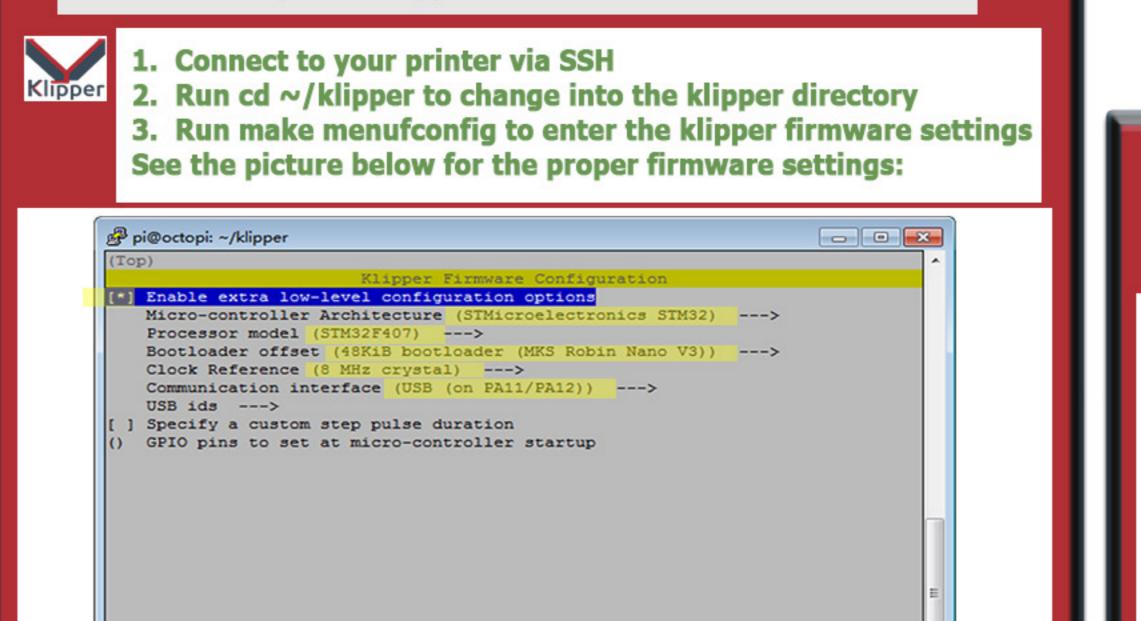
BOARD_MKS_MONSTER8

Note: Serial Port definitions in Marlin 2.0.x for this Board: -1: USB Port; 1: UART Port;

STALLGUARD (Sensor-less Homing)

Header Monster 8

* Important! Connect the DC 0V (typically labelled V-) on all of your DC power supplies together to ensure they all have the same voltage reference. If this is not done then it may be difficult to diagnose issues (devices may not turn on or may be damaged due to exceeding voltage limits).





DIAG PIN

DRIVER5

DRIVER4

DRIVER3

If using limit switches/enstops, ensure the DIAG pin is NOT connected to the MCU Endstop (i.e., ensure the 'Diag Jumper' is removed).

DISABLED

if you are using it for your extruder motor and you want to use a filament runo sensor, ensure the DIAG/DIAG1/DIAG0 PIN is NOT connected to the MCU Endstop to allow the filament runout sensor to work properly (i.e., ensure the 'Diag Jumper' is removed for the corresponding extruder motor)



and to copy the firmware file to the

power on the MKS Monster 8 after a few seconds, the Monster 8 should be flashed you can confirm that the flash was successful, by running Is /dev/serial/by-id. if the flash was successful, this should now show a

(note: this test is not appicable if the firmware was compiled for UART,