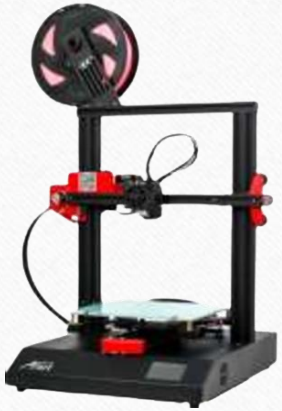
# 3D Printer via WiFi

# Hur Funkar det ?



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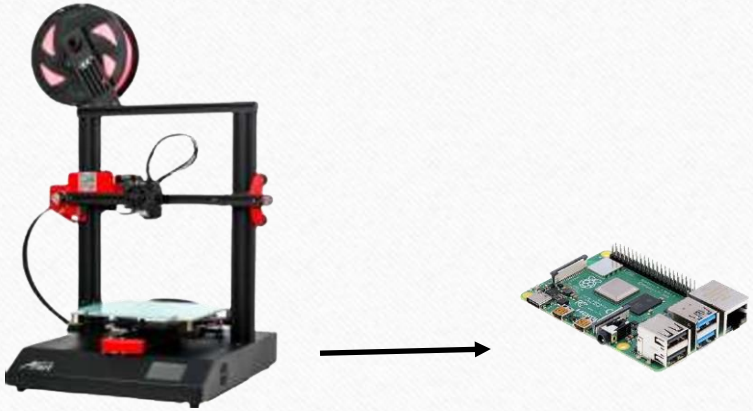

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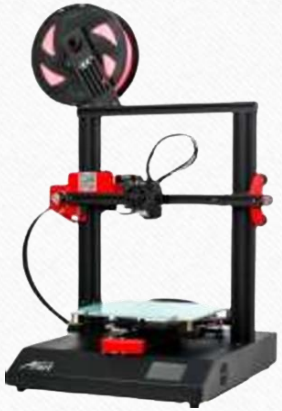

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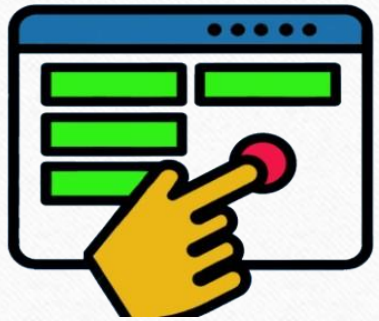
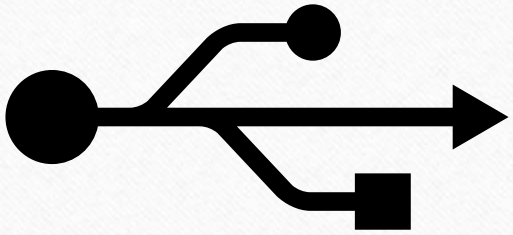
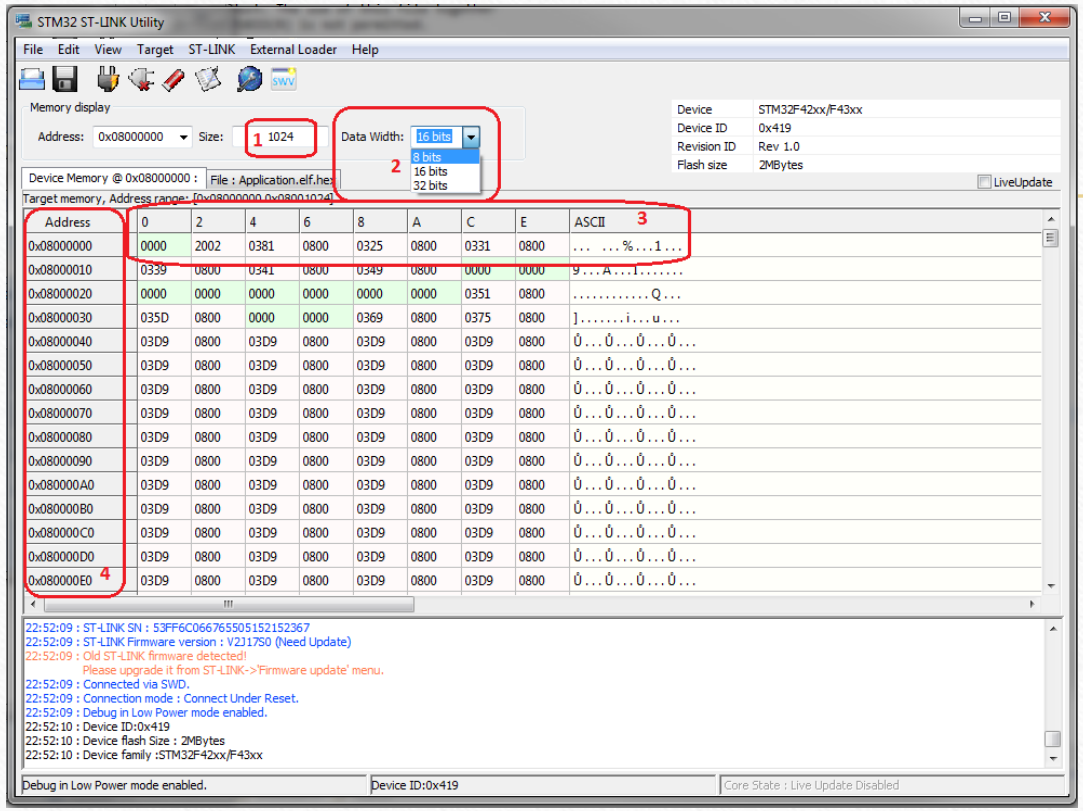


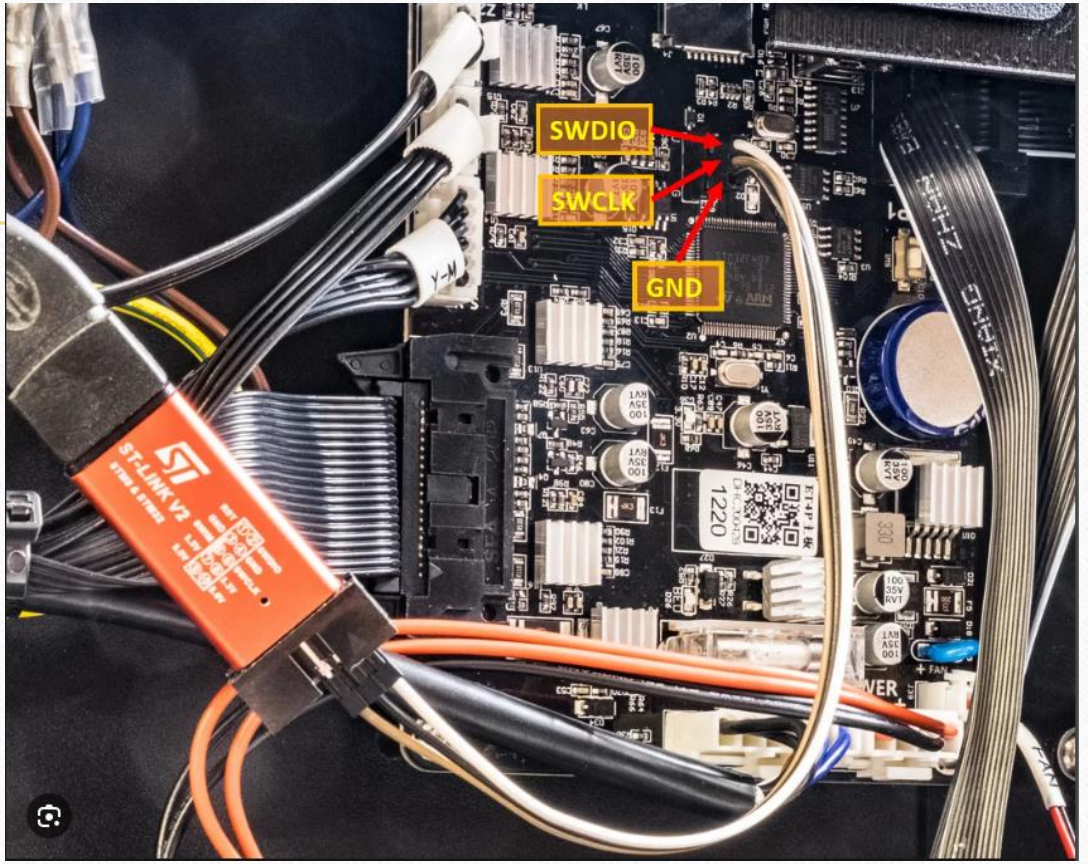
# Första koppling !

- Klipper
- .bin file
- .hex file



- Kiauh
- Klipper
- Moonraker


STM32 ST-LINK Utility
File Edit View Target ST-LINK External Loader Help
Memory display
Address: 0x08000000
Size: 1024
Data Width: 16 bits
8 bits
16 bits
32 bits
1
2
3
4
Device Memory @ 0x08000000 :
File : Application.elf.hex
Target memory, Address range: [0x08000000 0x08001024]
LiveUpdate
Device STM32F42xx/F43xx
Device ID 0x419
Revision ID Rev 1.0
Flash size 2MBytes
Address 0 2 4 6 8 A C E ASCII
0x08000000 0000 2002 0381 0800 0325 0800 0331 0800
0x08000010 0339 0800 0341 0800 0349 0800 0000 0000
0x08000020 0000 0000 0000 0000 0000 0000 0351 0800
0x08000030 035D 0800 0000 0000 0369 0800 0375 0800
0x08000040 03D9 0800 03D9 0800 03D9 0800 03D9 0800
0x08000050 03D9 0800 03D9 0800 03D9 0800 03D9 0800
0x08000060 03D9 0800 03D9 0800 03D9 0800 03D9 0800
0x08000070 03D9 0800 03D9 0800 03D9 0800 03D9 0800
0x08000080 03D9 0800 03D9 0800 03D9 0800 03D9 0800
0x08000090 03D9 0800 03D9 0800 03D9 0800 03D9 0800
0x080000A0 03D9 0800 03D9 0800 03D9 0800 03D9 0800
0x080000B0 03D9 0800 03D9 0800 03D9 0800 03D9 0800
0x080000C0 03D9 0800 03D9 0800 03D9 0800 03D9 0800
0x080000D0 03D9 0800 03D9 0800 03D9 0800 03D9 0800
0x080000E0 03D9 0800 03D9 0800 03D9 0800 03D9 0800
22:52:09 : ST-LINK SN : 53FF6C066765505152152367
22:52:09 : ST-LINK Firmware version : V2J17S0 (Need Update)
22:52:09 : Old ST-LINK firmware detected!
Please upgrade it from ST-LINK->'Firmware update' menu.
22:52:09 : Connected via SWD.
22:52:09 : Connection mode : Connect Under Reset.
22:52:09 : Debug in Low Power mode enabled.
22:52:10 : Device ID:0x419
22:52:10 : Device flash Size : 2MBytes
22:52:10 : Device family :STM32F42xx/F43xx
Debug in Low Power mode enabled.
Device ID:0x419
Core State : Live Update Disabled


SWDIO
SWCLK
GND
ST-LINK V2

# Printer config med markup-sh språk.

printer.cfg

```
24  [stepper_x]
25  step_pin: PD7
26  dir_pin: PC5
27  enable_pin: !PD6
28  microsteps: 16
29  #rotation_distance: 39.8491
30  rotation_distance: 40
31  endstop_pin: ^PC2
32  position_endstop: 0
33  position_max: 145
34  homing_speed: 50
35
36  [stepper_y]
37  step_pin: PC6
38  dir_pin: !PC7
39  enable_pin: !PD6
40  microsteps: 16
41  rotation_distance: 40
42  endstop_pin: ^PC3
43  position_endstop: 0
44  position_max: 180
45  homing_speed: 50
```

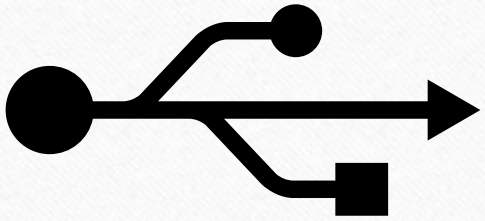
```
View 'mcu' documentation
[mcu]
serial: /dev/serial/by-id/usb-1a86_USB2.0-Serial-if00-port0
# in some cases, the serial port is detected with a slightly different name:
# serial: /dev/serial/by-id/usb-1a86_USB_Serial-if00-port0
baud: 115200
restart_method: command

View 'board_pins' documentation
[board_pins]
aliases:
    P1_1=PD7,  P1_3=PB2,  P1_5=PE4, P1_7=PB1, P1_9=<GND>,
    P1_2=PD5,  P1_4=PE5,  P1_6=PB0, P1_8=PD4, P1_10=<3V3>,
    P2_1=PE6,  P2_3=PD15, P2_5=PD1, P2_7=PE8, P2_9=PE10,
    P2_2=PD13, P2_4=PD14, P2_6=PD0, P2_8=PE7, P2_10=PE9

View 'printer' documentation
[printer]
kinematics: cartesian
max_velocity: 500
max_z_velocity: 12
max_z_accel: 50


# stick-on plastic sheet bed
max_accel: 2900
# glass bed
# max_accel: 1900
```

# Moonraker API på localhost



# FRÅGOR ?

# Andra koppling !

Openswan VPN

**AWS Site-to-Site**

VPN Connection

Virtual Private Gateway