FORMBOT

Marathon

Bigtreetech HDMI 5''

VIVEDINO

Designed by Dr. Ing. Dan Andrei Marinescu

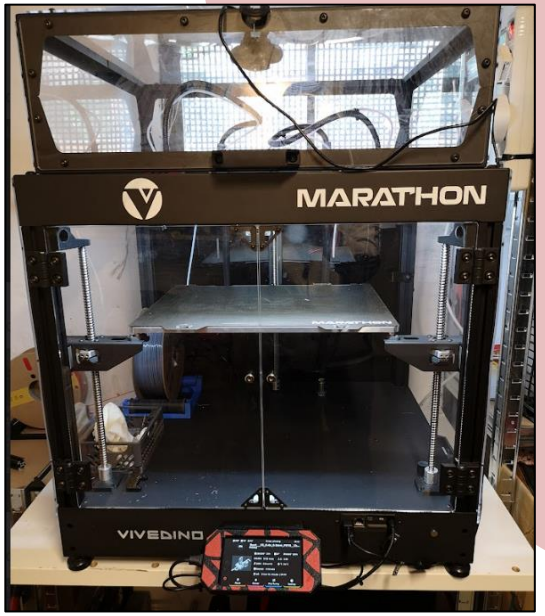
Introduction

Motivation

Klipper printers mainly rely on the Mainsail interface for controlling the printer. Marathon printers come standard equipped with an SPI display that allows for control of the printer and offline printing via USB stick, completely independent of the Mainsail interface.

The SPI display is relatively small, and its performance is modest. Some users would like to have a more robust solution when it comes to the display controller.

HDMI displays from Bigtreetech are perfectly compatible with Marathon electronics since they are also from Bigtreetech.



Pros: Improved user experience

Cons: You end up with some cables in plain sight

https://a.aliexpress.com/_EzKYAax

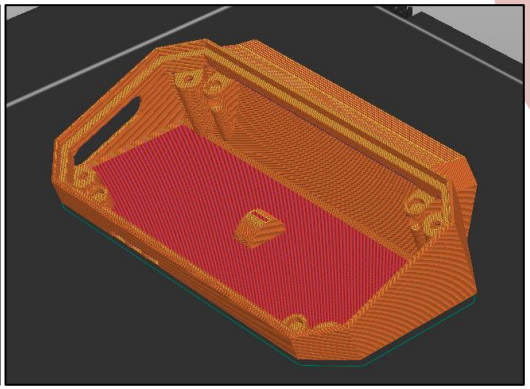
BOM

- 1x BTT HDMI 5 display → https://a.aliexpress.com/_EzKYAax
- 4x M3-Inserts → https://a.co/d/2GOOxsY
- 1x Zip tie
- 6x M3x10 DIn912 Screws

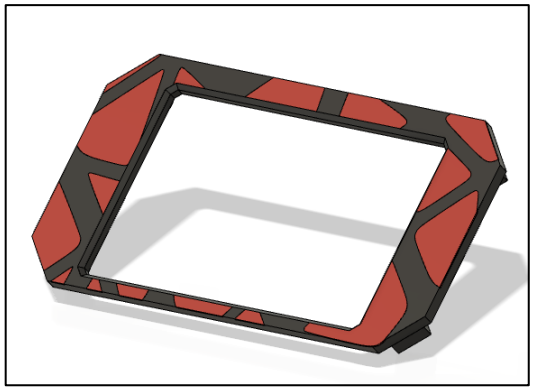
* The links are only for orientation; there are no affiliate links. You can purchase the hardware from wherever you like.

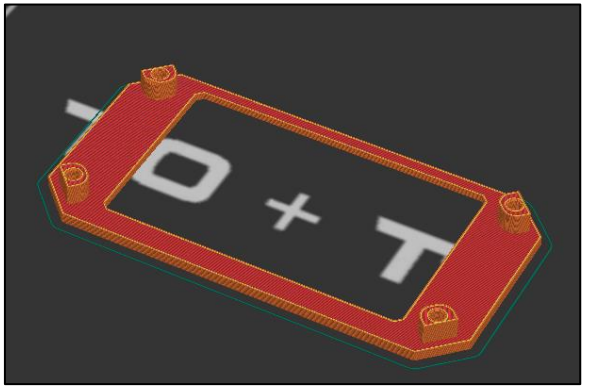
3d printed parts

- 1x Display case→ with 30% infill, no supports. Chose the material and color you like.



- 1x Display cover → with 30% infill, no supports. Chose the material and colours you like. The cover has a colour pattern, you can print in ‘dual color’ mode

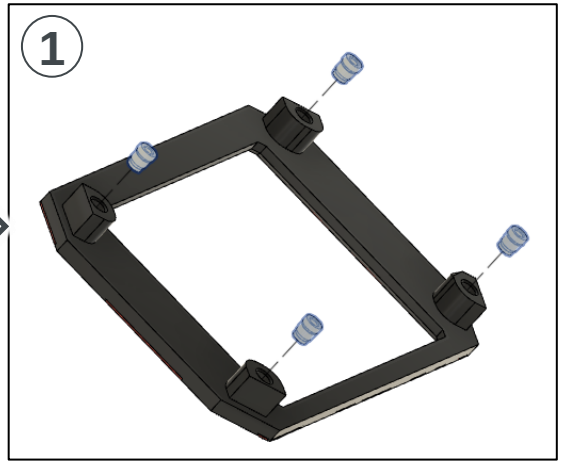




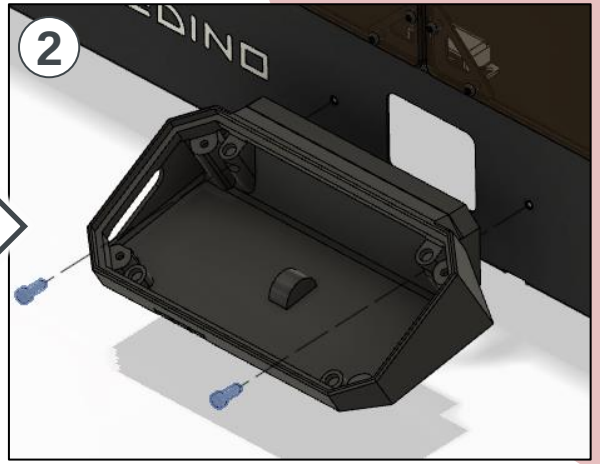
Prepare and Installation

Before installing the new HDMI Display, the standard SPI screen has to be removed !

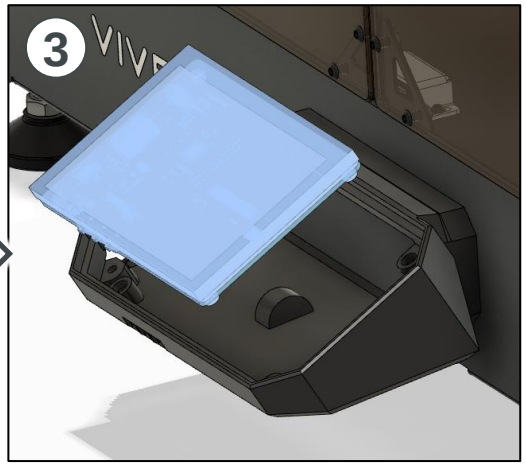
Install the 4x M3-Inserts as shown



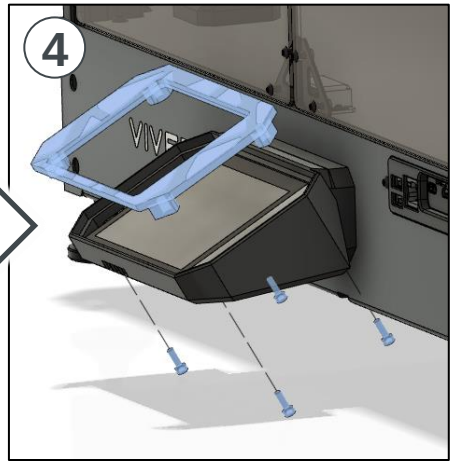
Install the display case to the printer using 2x M3x10 Screws



Place the HDMI Display in its designated place.

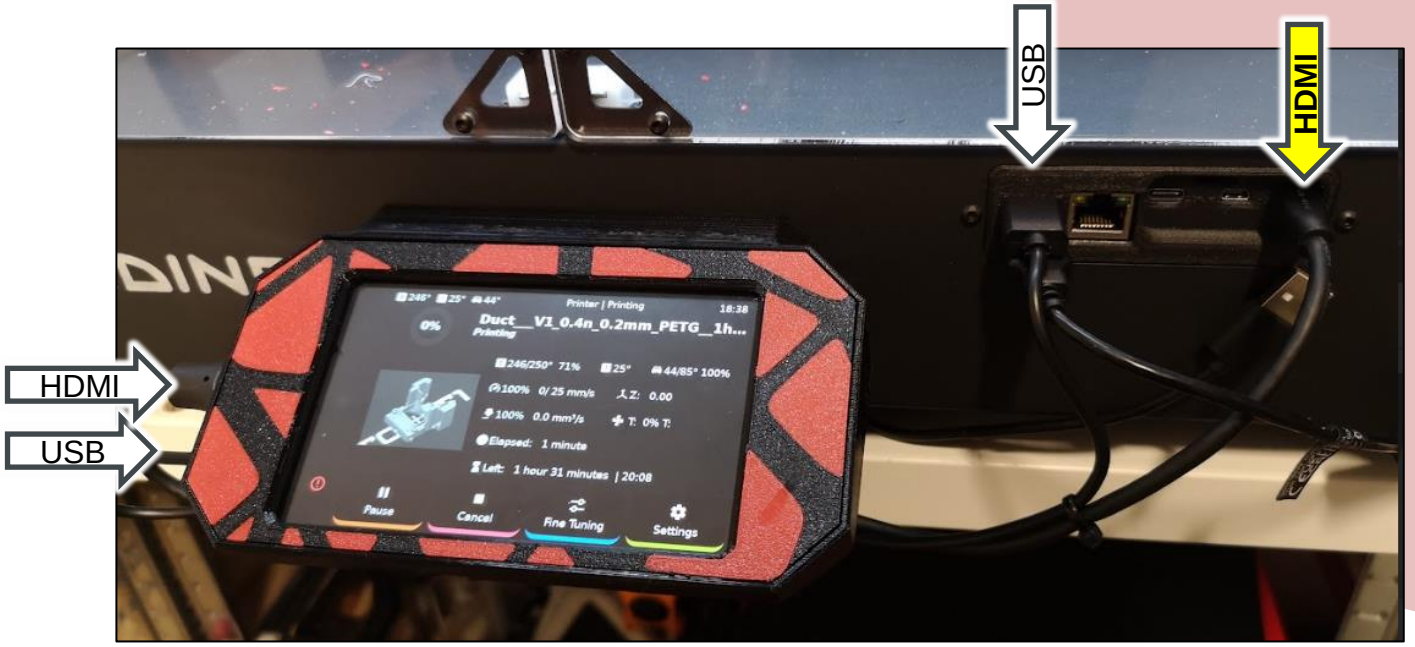


Fixate the cover with 4x M3x10 screw from beneath as shown



Cables connections

- Connect the HDMI and USB cables to the Display as indicated
- On the printer front side connect the other end of the cables.
- **Plug the HDMI connector in the indicated port form the printer interface**



The HDMI cable that is delivered together with the display is long and thick. To be used on Marathon, the included micro HDMI adapter also has to be used. To obtain cleaner and better-looking cable management, another HDMI cable was used for the installation.

https://amzn.eu/d/gqPMJzU

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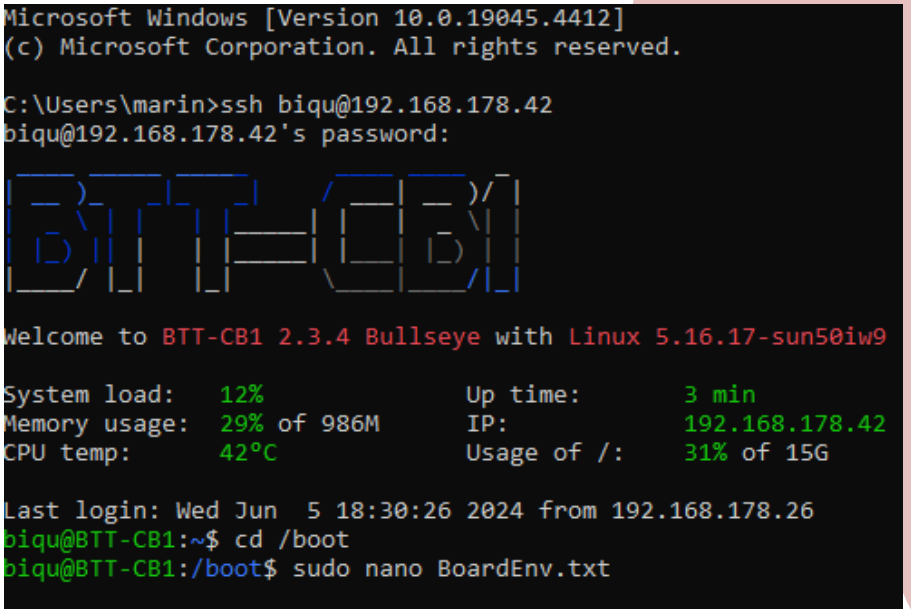
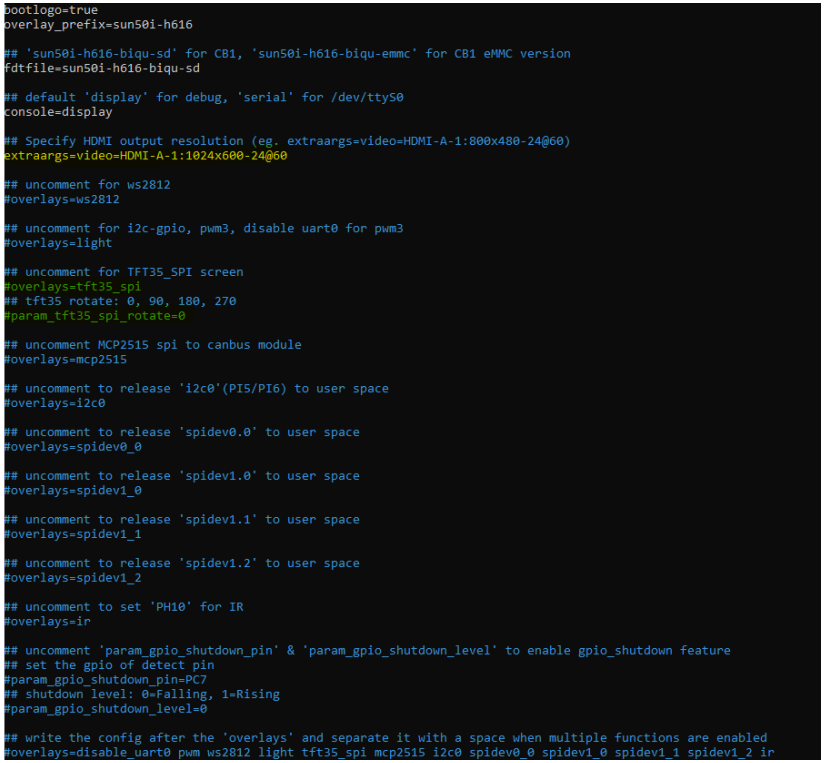
Beneath the display case the excess cable length can be hidden and fixated with a cable tie

Software settings

- Open an SSH connection to your printer
- This can be also done from **Command Prompt** in Windows:
  - Type: **ssh biqu@<your printer ip>** (*ex: ssh biqu@198.178.168.28)*
  - Paswword: **biqu** (in case you haven't chaged it)
  - Type: **cd /boot**
  - Type : **sudo nano BoardEnv.txt**
  - Comment the lines corresponding to SPI screen
  - Uncomment the line corresponding to HDMI
  - Save the file (Ctrl+X)
  - Reboot





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Happy printing!

BTT Touch Screen Git:
https://github.com/bigtreetech/BIGTREETECH-TouchScreenHardware/tree/master/BTT%20HDMI5

Formbot Vivedino:

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