

H101 MountingHole  
H102 MountingHole  
H103 MountingHole  
H104 MountingHole

Ser.No G101  
SYM\_Serial\_No

n/w G102  
SYM\_FHNW\_Logo



Sheet: appendix\_ESP32



File: appendix\_ESP32.sch

Sheet: appendix\_UART\_USB



File: appendix\_UART\_USB.sch

Sheet: appendix\_STM32F103

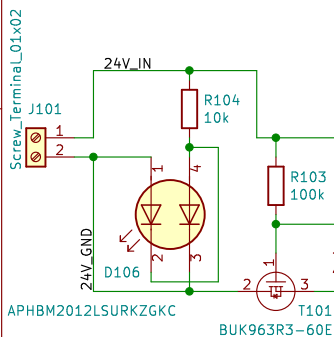
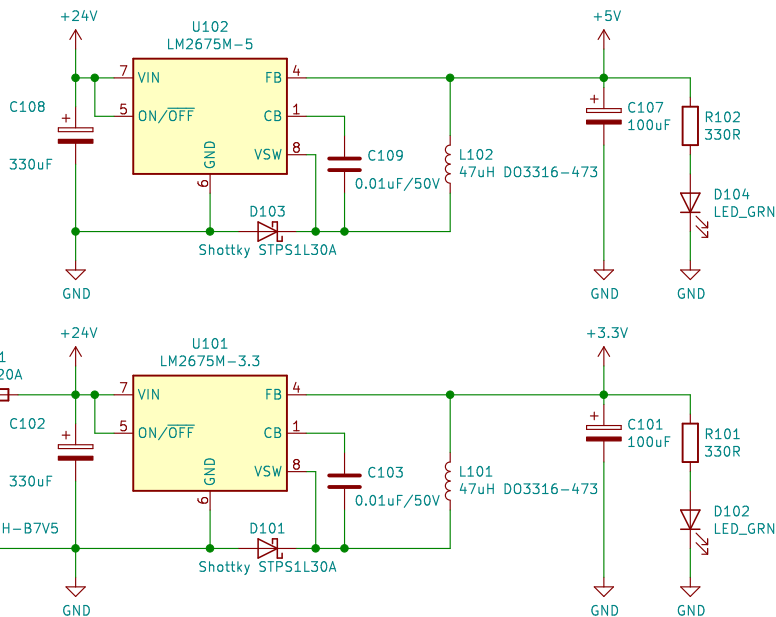
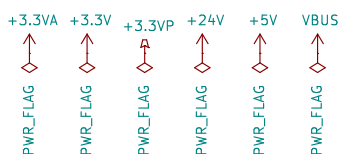
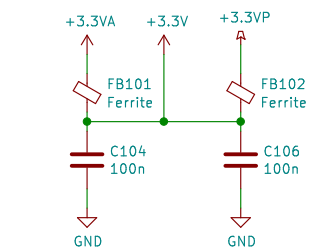


File: appendix\_STM32F103.sch

Sheet: appendix\_TMC2660\_X



File: appendix\_TMC2660\_X.sch  
Sheet: appendix\_SENSORS\_POWER



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Sheet: /

File: FHNW-Pro4E-FS19T8-3DPrinterBoard-STM32.sch

Title: 3D Printer Board STM32F103

Size: A4 Date: 2019-05-10

KiCad E.D.A. kicad (5.1.0)-1

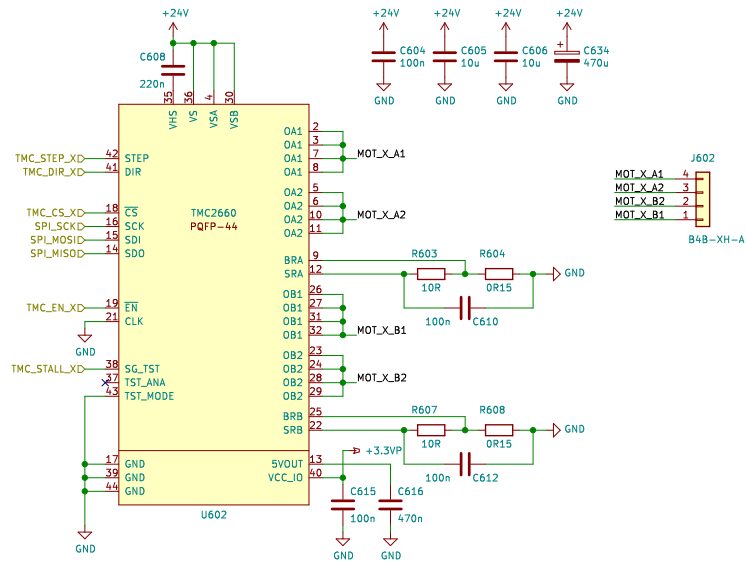
Rev: 1.1

Id: 1/6

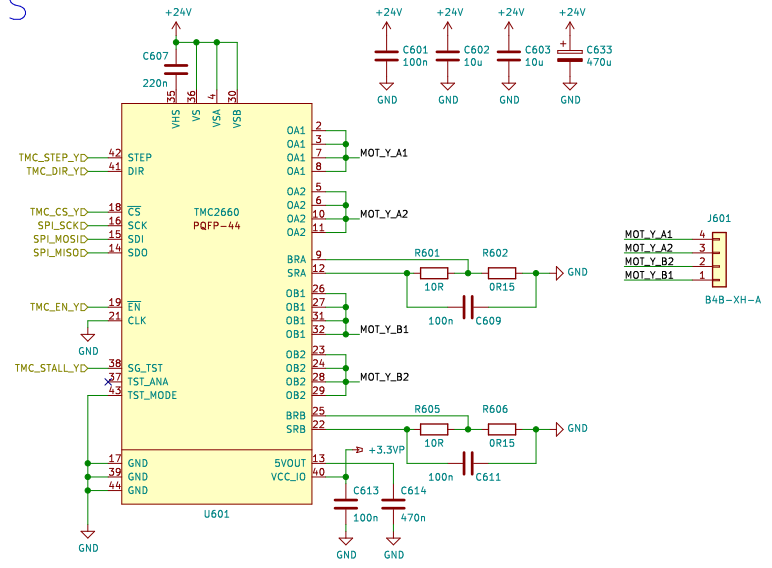




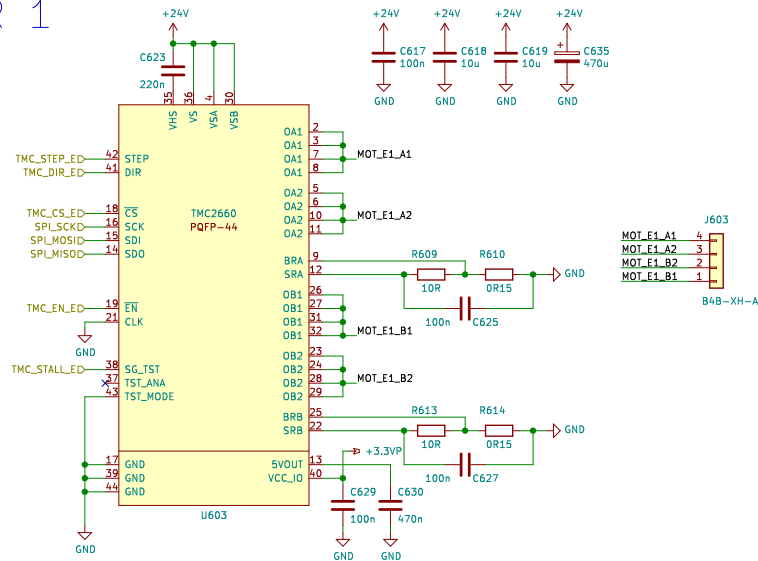
## X AXIS



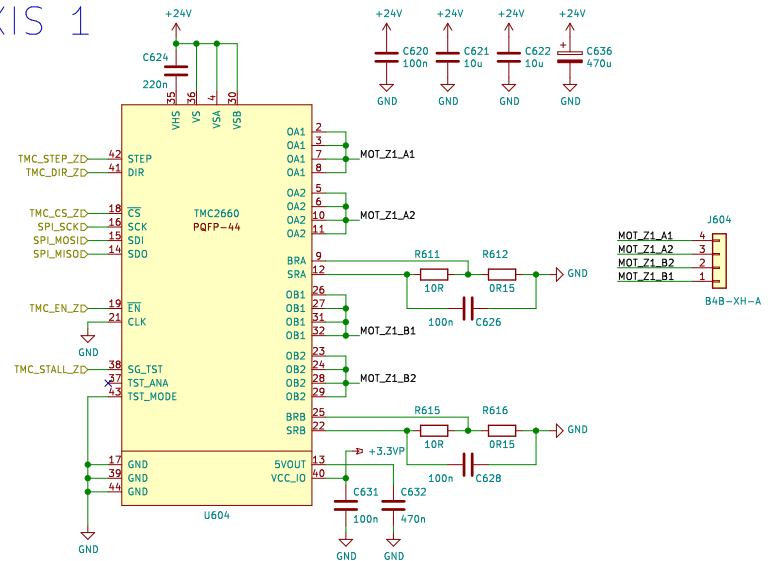
## Y AXIS



## EXTRUDER 1



## Z AXIS 1



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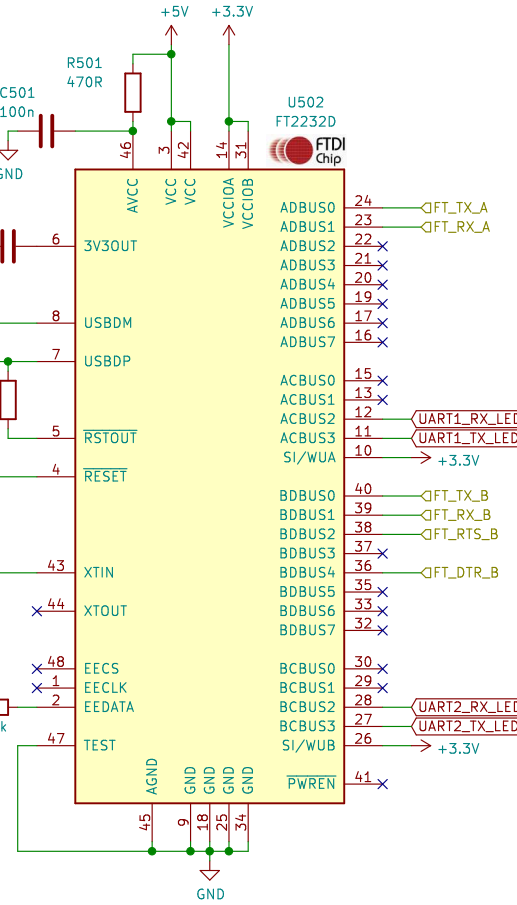
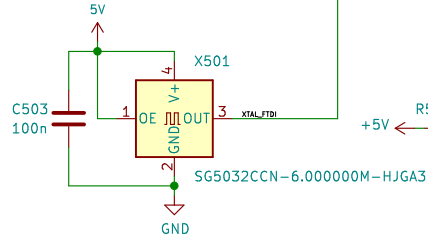
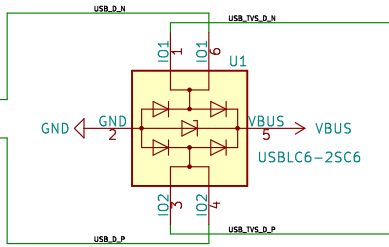
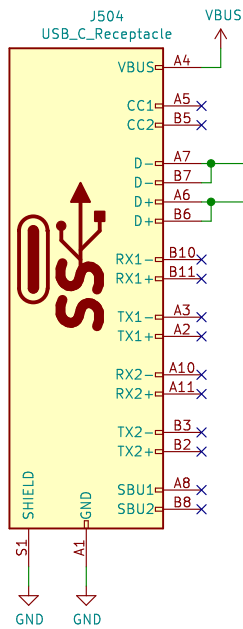
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Sheet: /appendix\_TMC2660\_X/  
File: appendix\_TMC2660\_X.sch

**Title: TMC2660 Stepper Drivers**

Size: A3 Date: 2019-05-10  
KiCad E.D.A. kicad (5.1.0)-1

Rev: 1.1  
Id: 4/6



RX\_STM\_to\_TX\_FTDI  
TX\_STM\_to\_RX\_FTDI

RX\_ESP\_to\_TX\_FTDI  
TX\_ESP\_to\_RX\_FTDI  
RTS\_ESP32

DTR\_ESP32

