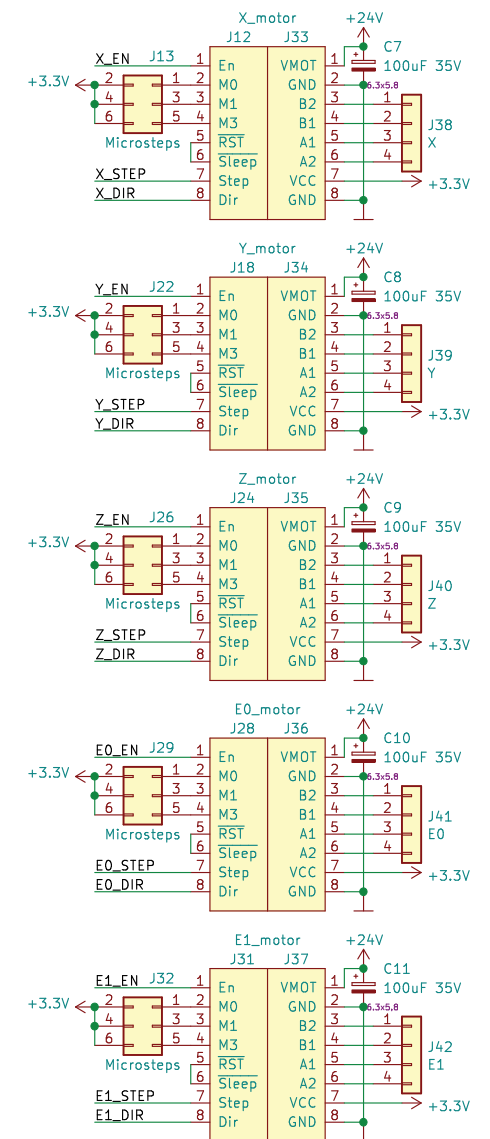
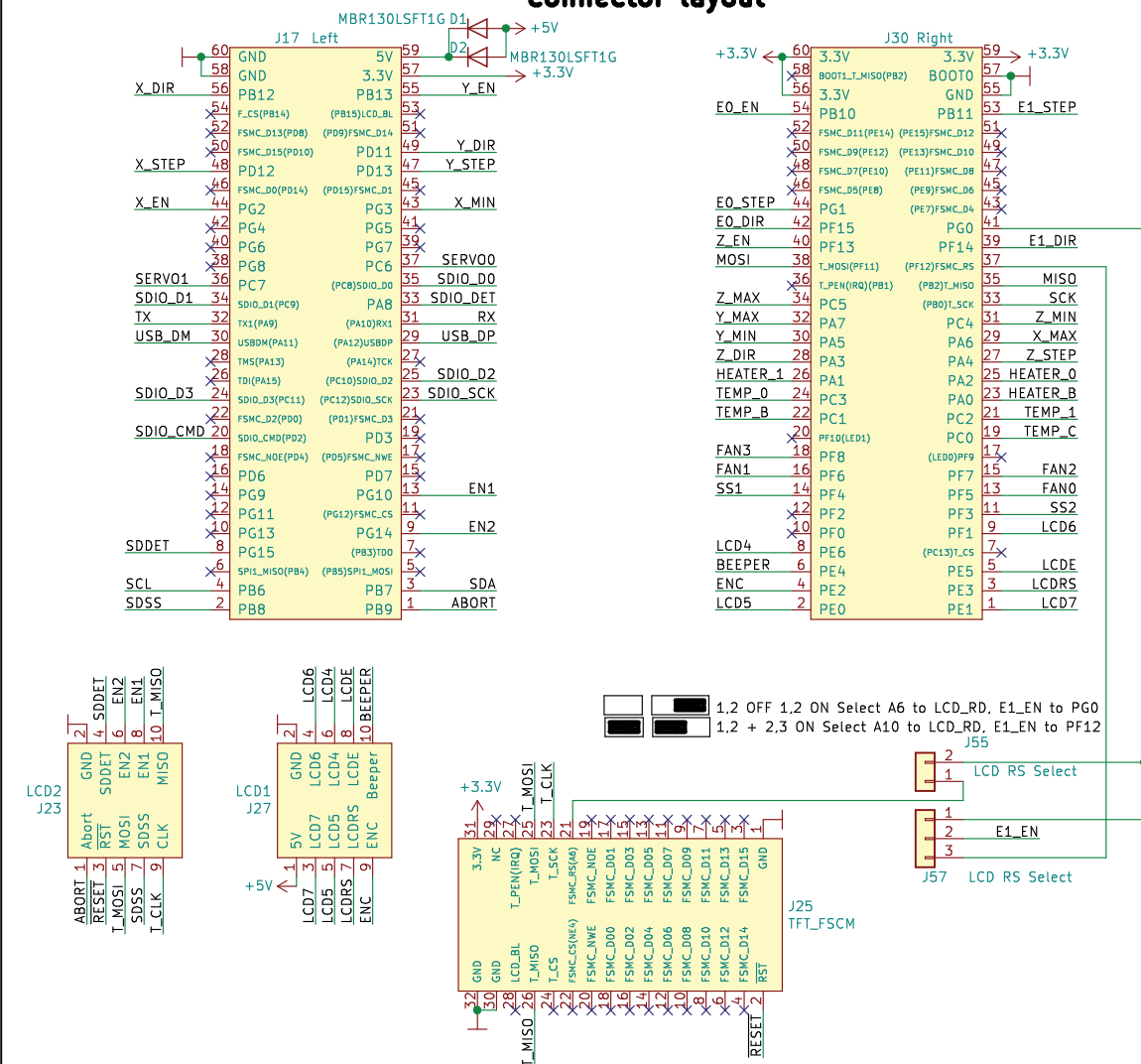


**3D Printer RAMPS board
for STM32F407ZGT6
Chinese black edition
with Touch TFT ILI9341
320x240**

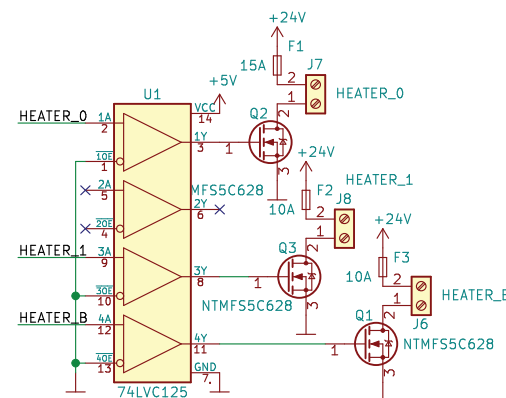
Stepper Motors



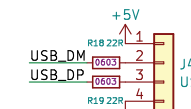
STM32F407ZGT6 Black board connector layout



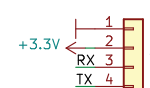
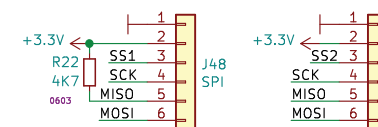
Heating block



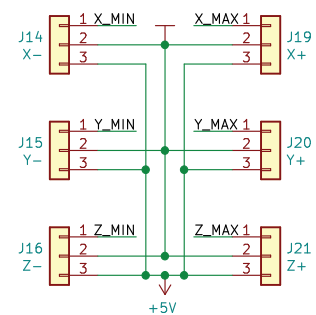
USB



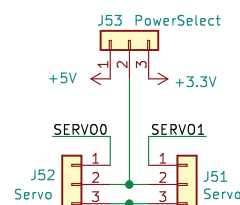
UART

**SPI**

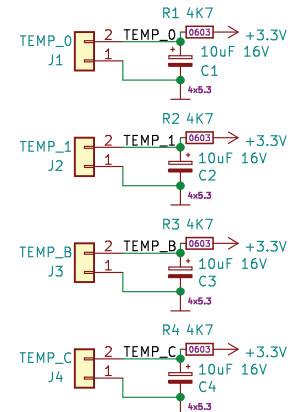
Limit switches



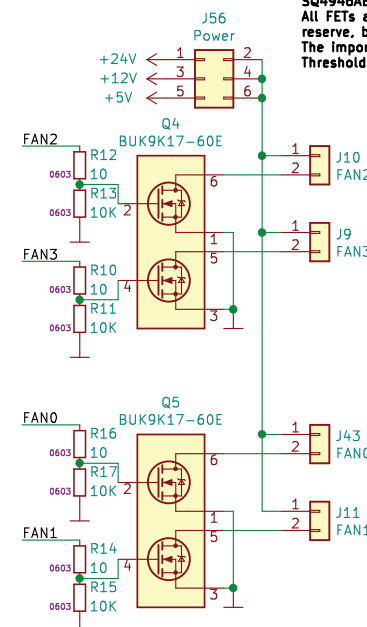
Servos



Thermistors

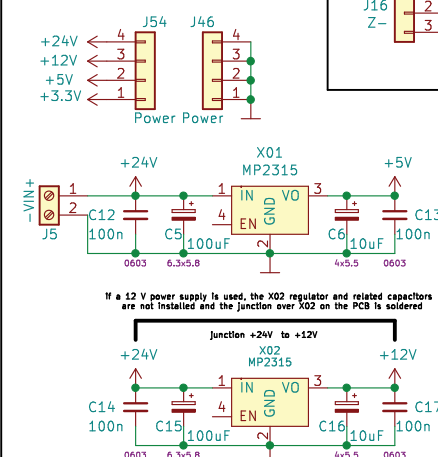


Fans



On the PCB can be mounted a direct replacement:
instead of this BUK9K17-60E = max. current 25A
DMN6040SSD = much low cost low max. current 5A
SQ4946GA5E = similar price, low max. current 7A
All FETs are to the 60V operating voltage with reserve, because power supply can be up to 24V
The important thing is that $V_{GS(th)}$ Gate-Source Threshold Voltage is very low max. to 2.5V

Power



SD Card

