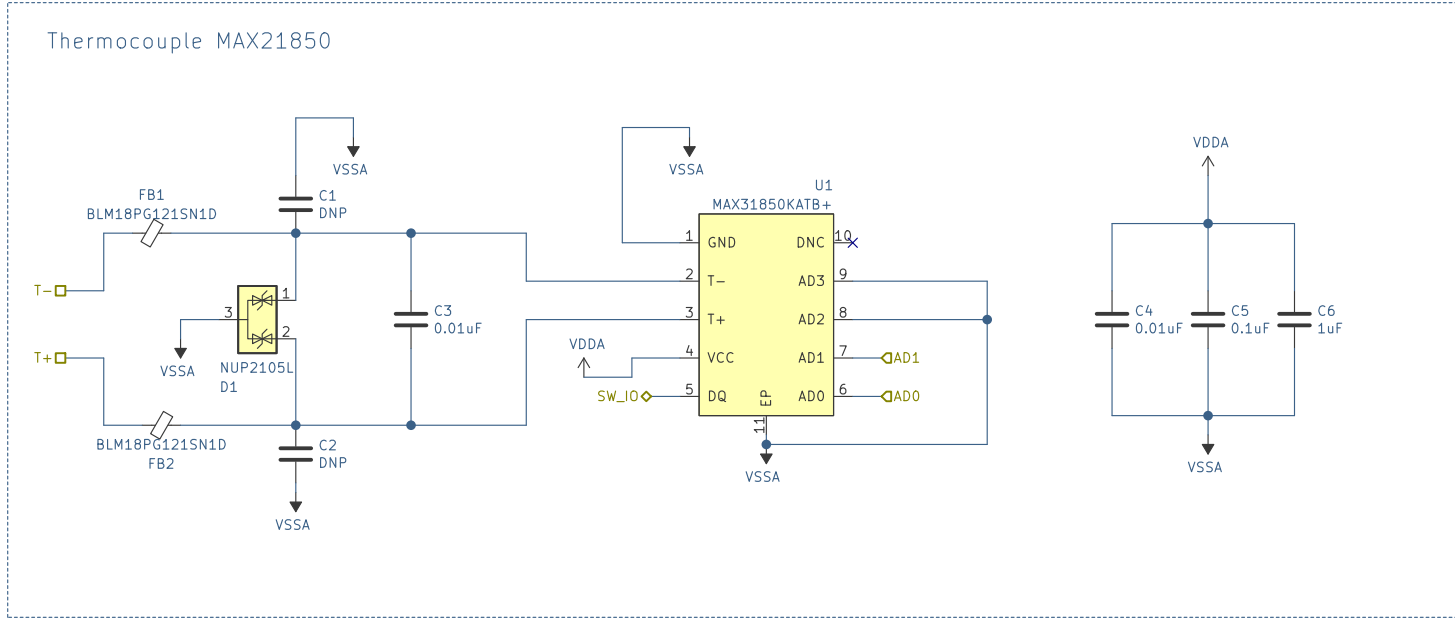


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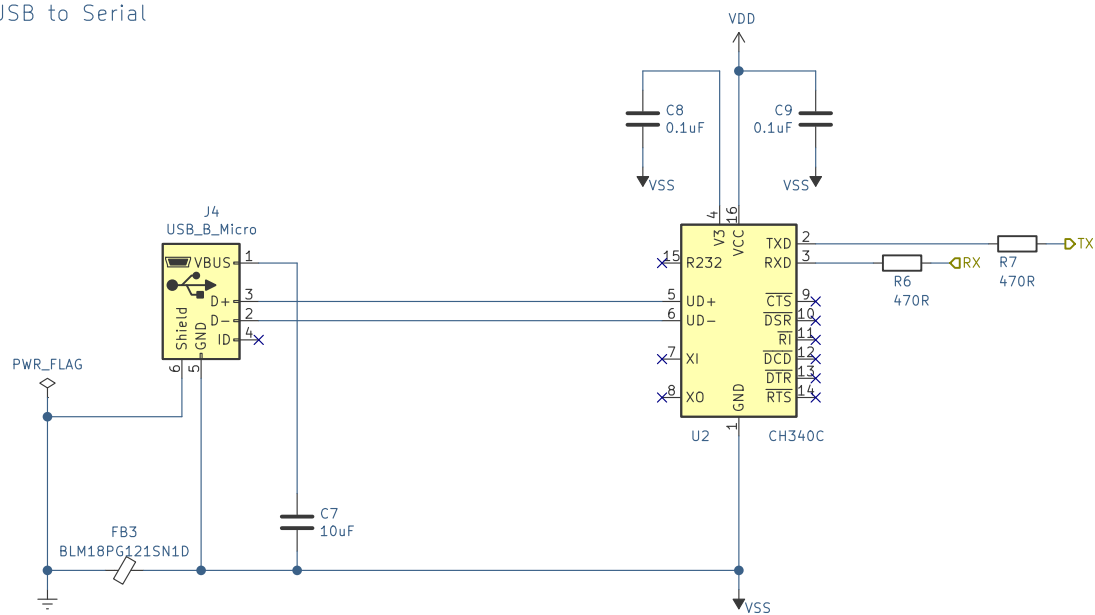
Thermocouple MAX31850

Sheet: /Thermocouple 1/  
File: MAX31850.sch

Size: A4 Date: 2020-10-16  
Designed by: Igor Knippenberg

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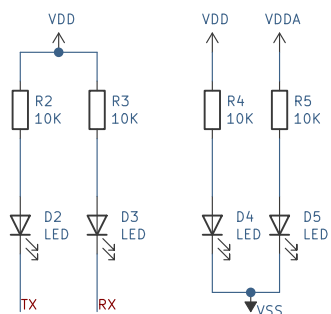
## USB to Serial



## Buttons to enter Bootloader Mode



## LED indicators



USB FTDI & Buttons

Sheet: /USB & Buttons & LEDs/

File: usb.sch

Size: A4

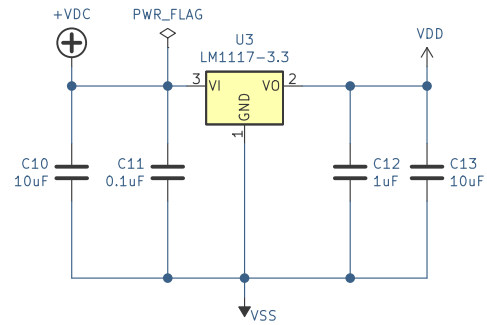
Date: 2020-02-07

Rev: v0.1

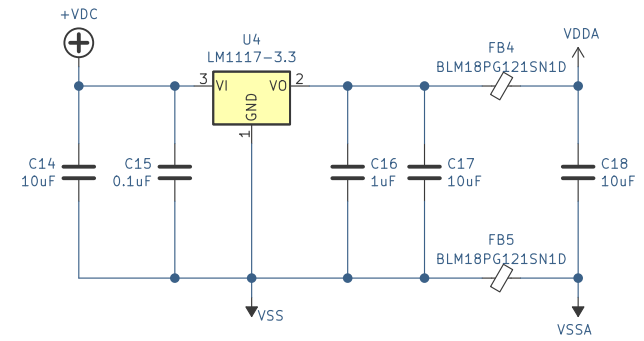
Designed by: Igor Knippenberg

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### Digital Power Supply 3.3V (LM1117 LDO)



### Analog Power Supply 3.3V (LM1117 LDO)



VDC is supplied by the 12V Fan Output of the main controller board



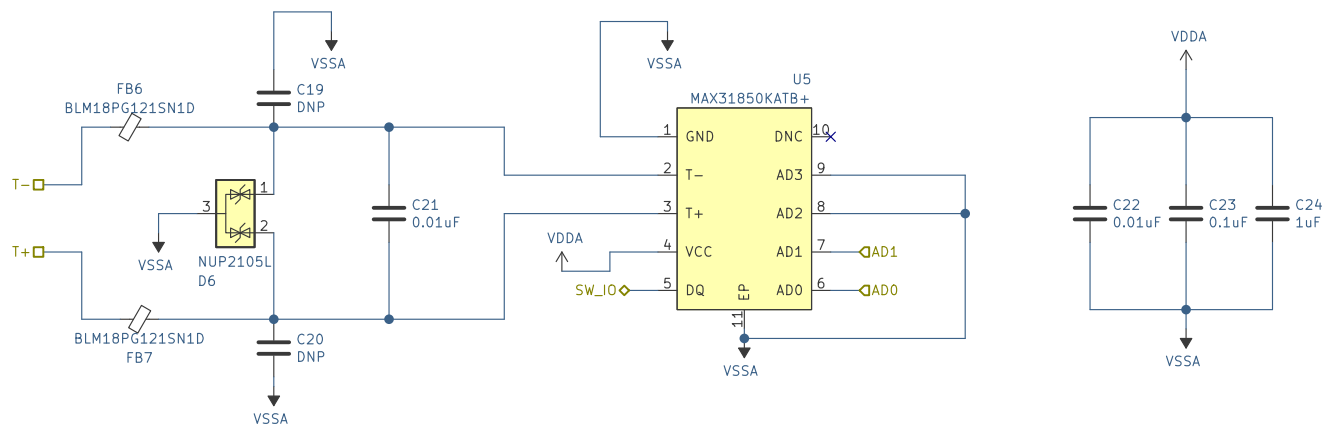
#### Power Regulators

Sheet: /Power Regulators/  
File: power.sch

Size: A4 Date: 2020-02-07  
Designed by: Igor Knippenberg

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# Thermocouple MAX21850

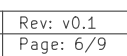
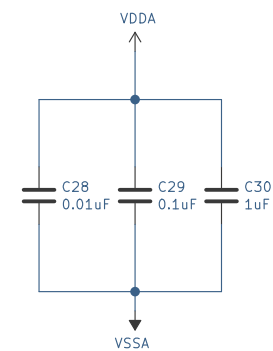


Thermocouple MAX31850

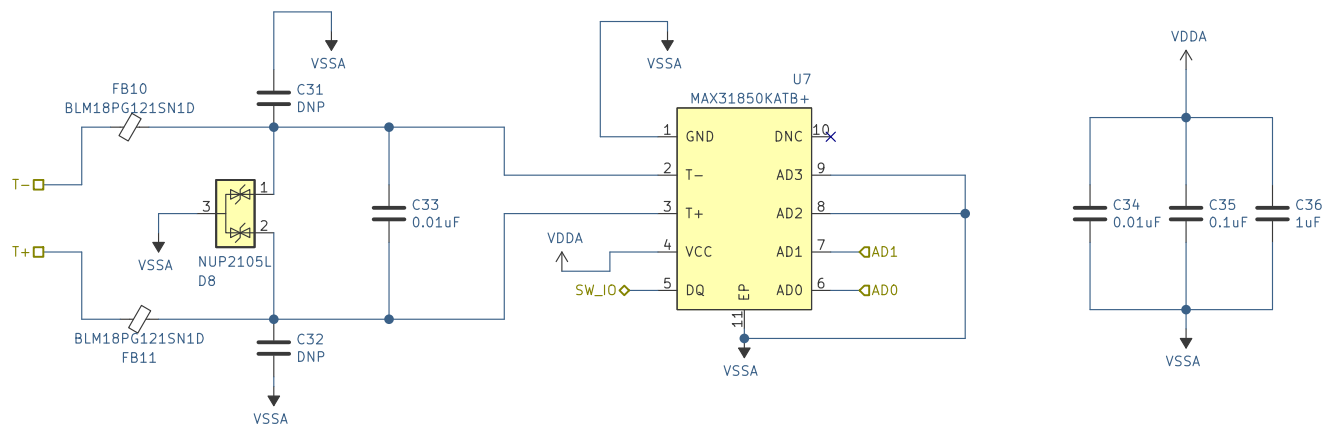
Sheet: /Thermocouple 2/  
File: MAX31850.sch

Size: A4 Date: 2020-10-16  
Designed by: Igor Knippenberg

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# Thermocouple MAX21850



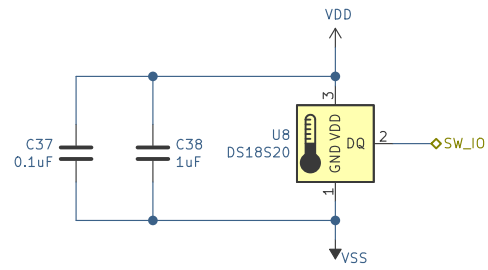
Thermocouple MAX31850

Sheet: /Thermocouple 4/  
File: MAX31850.sch

Size: A4 Date: 2020-10-16  
Designed by: Igor Knippenberg

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# PCB Temperature Sensor



PCB Temperature

Sheet: /PCB Temperature/  
File: PCBTemp.sch

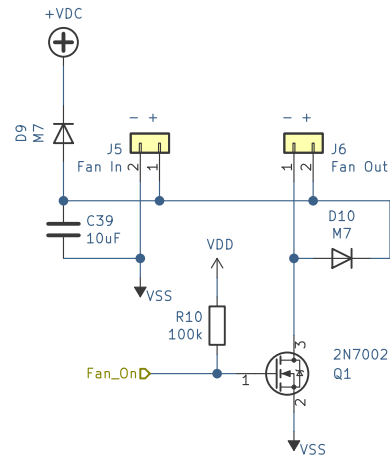
Size: A4 Date: 2020-10-16  
Designed by: Igor Knippenberg

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### System Fan Control



Even if you don't want to use the fan control, you still need to connect the fan input to the fan output of the main controller board. This connection will supply the upgrade board with 12V.

If you don't want to use it, don't connect the ADO Pin from the main controller board. This way the system fan will always be on (recommended for the smaller T-962).



### System Fan Control

Sheet: /System Fan Control/  
File: fan.sch

Size: A4 Date: 2020-10-16

Designed by: Igor Knippenberg

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