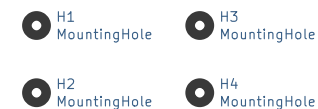




Open Hardware

MAX31850 Single Wire Address Selection:

Address 0: AD0 + AD1 = GND  
Address 1: AD0 = VDDA, AD1 = GND  
Address 2: AD0 = GND, AD1 = VDDA  
Address 3: AD0 + AD1 = VDDA  
...



T-962/T-962A Reflow Oven Upgrade Board – Overview

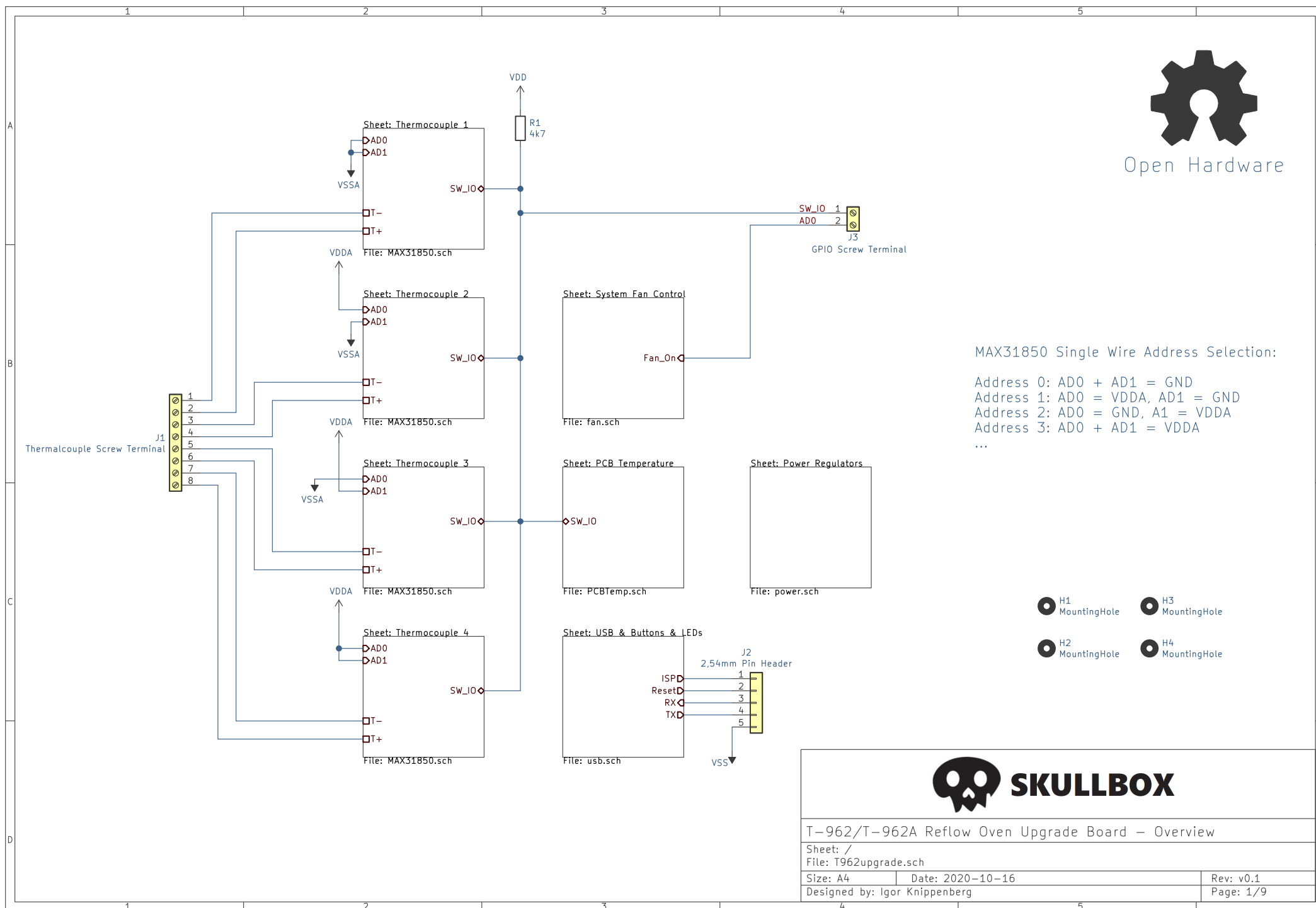
Sheet: /  
File: T962upgrade.sch

Size: A4 Date: 2020-10-16

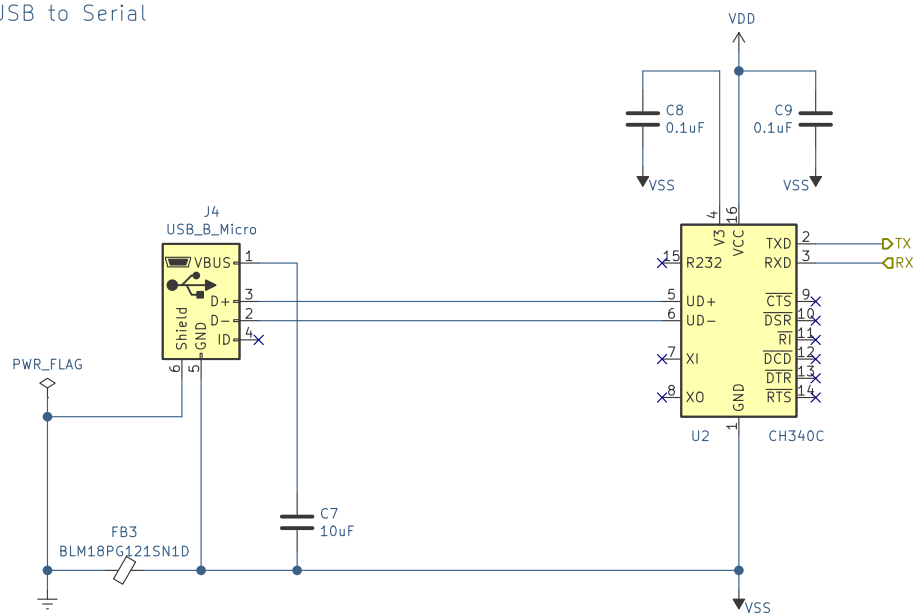
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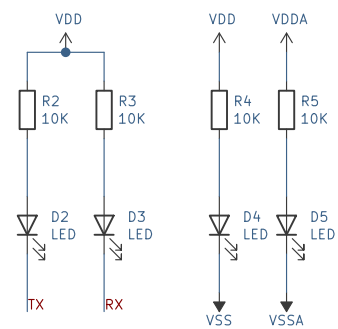
## USB to Serial



## Buttons to enter Bootloader Mode



## LED indicators



## USB FTDI & Buttons

Sheet: /USB & Buttons & LEDs/  
File: usb.sch

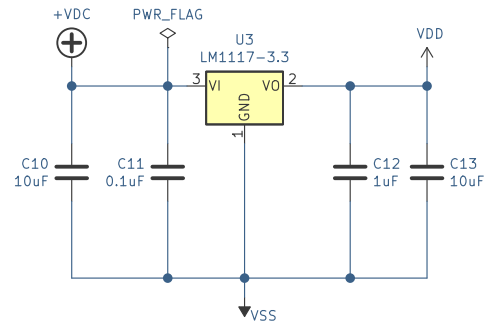
Size: A4 Date: 2020-02-07

Designed by: Igor Knippenberg

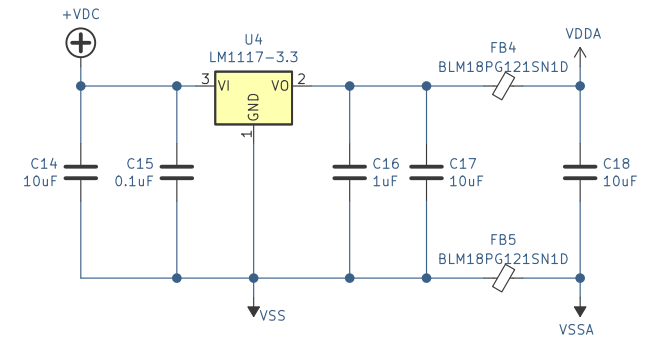
Rev: v0.1

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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

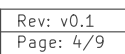
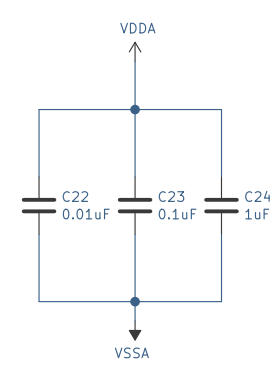


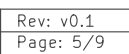
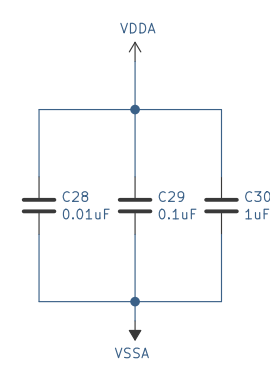
#### Power Regulators

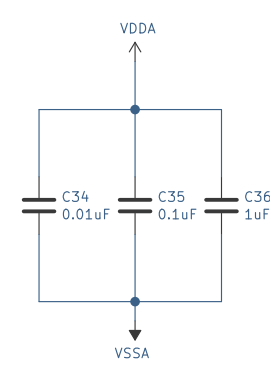
Sheet: /Power Regulators/  
File: power.sch

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

Rev: v0.1  
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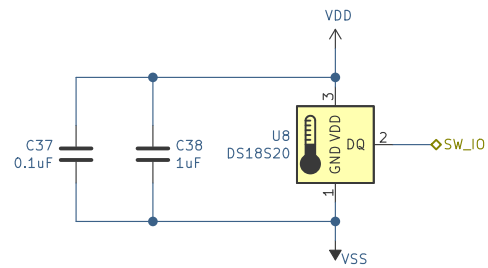






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# PCB Temperature Sensor



## PCB Temperature

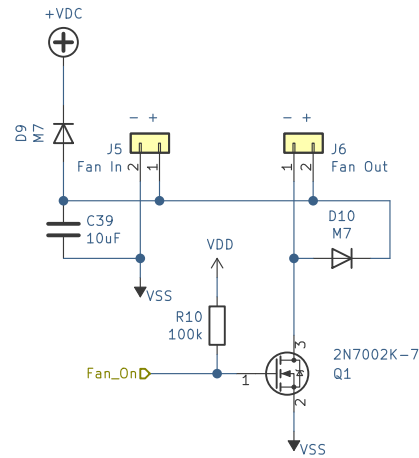
Sheet: /PCB Temperature/  
File: PCBTemp.sch

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

Rev: v0.1  
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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

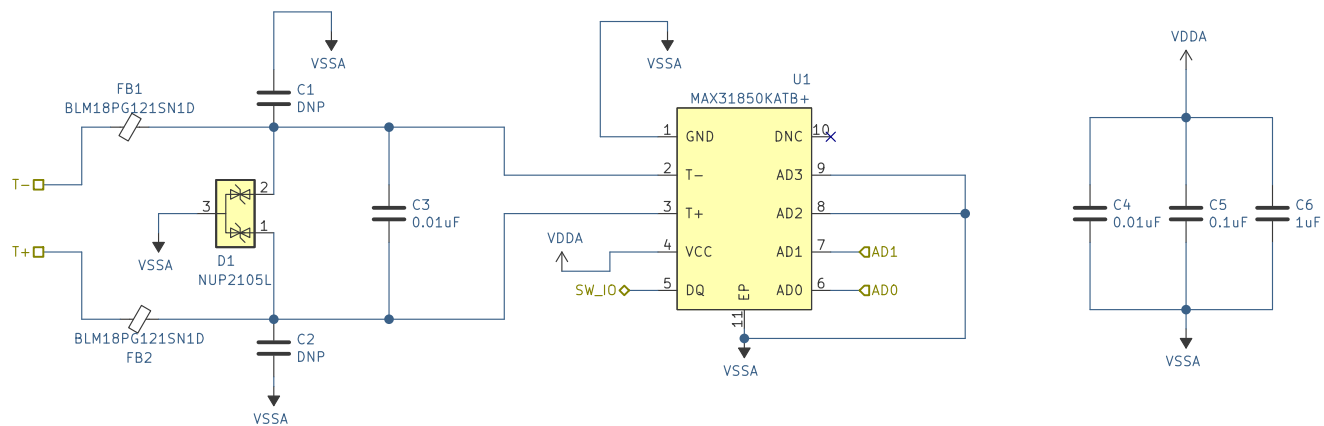
Designed by: Igor Knippenberg

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# Thermocouple MAX21850



Thermocouple MAX31850

Sheet: /Thermocouple 1/  
File: MAX31850.sch

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

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