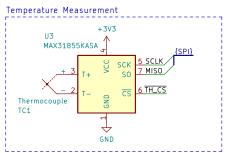
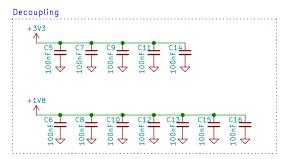
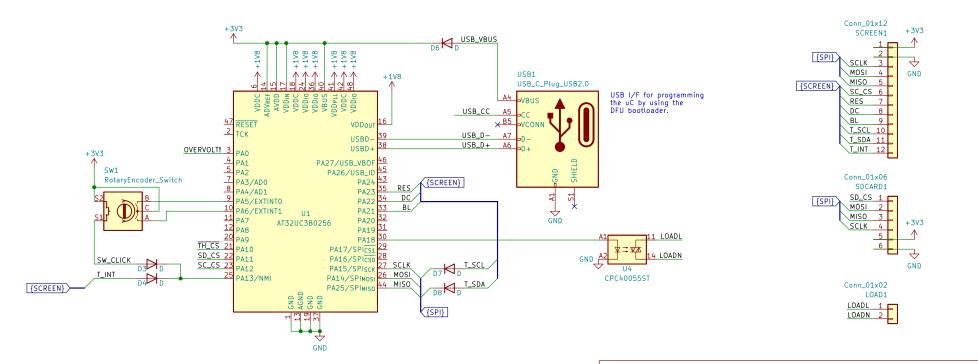


External safe power source is needed for now, until we need mains freq. for control.



Reads a K-type thermocouple and produces data over SPI. Try and ovenize or otherwise protect this chip.





## Control Scheme

The MCU first needs to know how fast the temperature rises at full power, as a mearsure of thermal mass. This value is stored in an internal non-volatile memory, like a flash.

The based on this, the MCU turns on the load for a certain number of AC cycles, calculated by scaling the duration of the calibration to 10 cycles. After this if the temperature is more than what the calibration curve was, we start reducing the number of cycles. If it is less, we just turn power on and check again after 10 cycles.

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