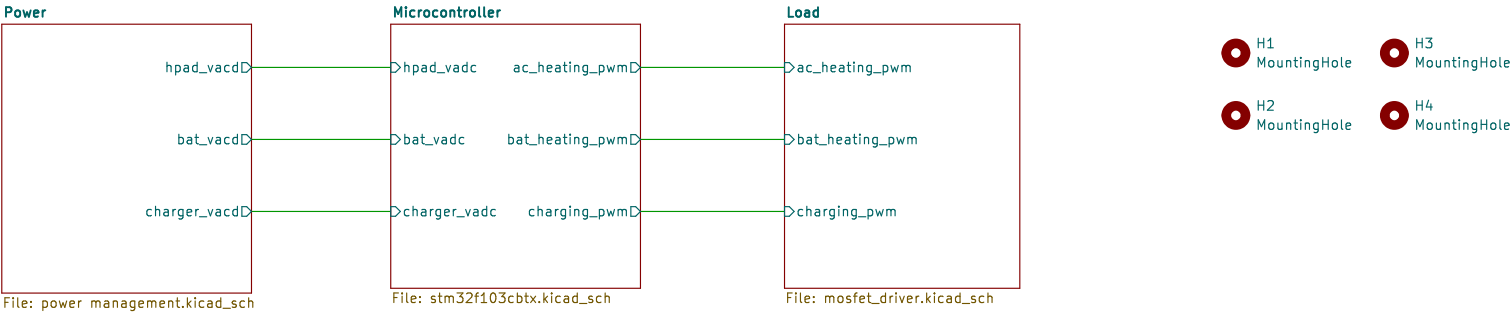


Neonest V 1.0.3 Schematic circuit



Che innovations

Sheet: /
File: Neonest_V_1.3.kicad_sch

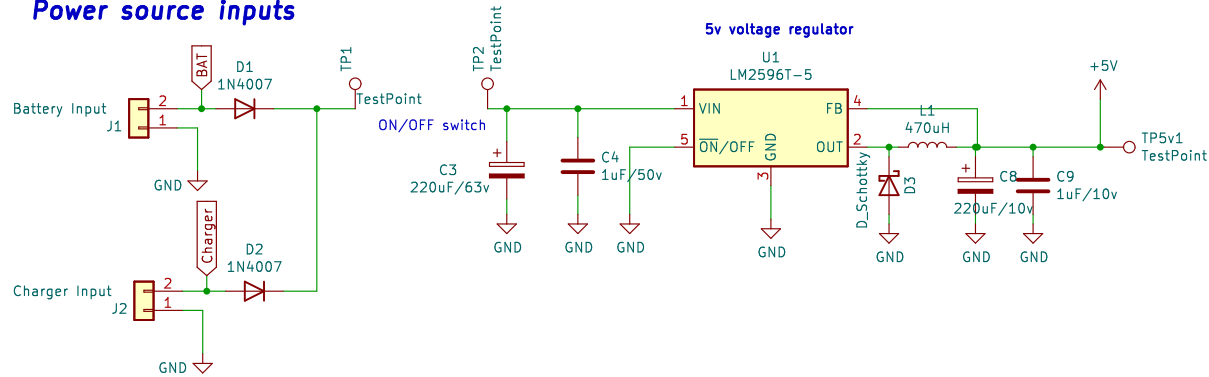
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Size: A4 Date: 2025-08-07

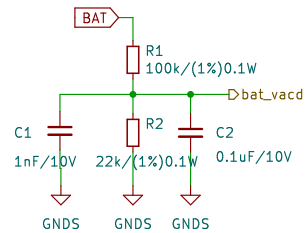
KiCad E.D.A. kicad 7.0.11-rc3

Rev:
Id: 1/4

Power source inputs

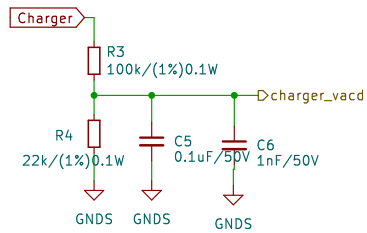


Sense battery voltage

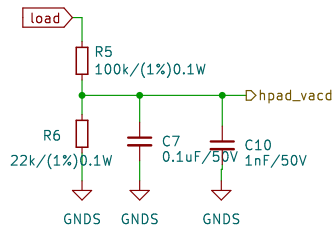


Maximum ADC voltage
 $(22/(100+22)) \times 15 = 2.7V$

Sense charger voltage



Sense heating pad voltage



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Sheet: /Power/
 File: power management.kicad_sch

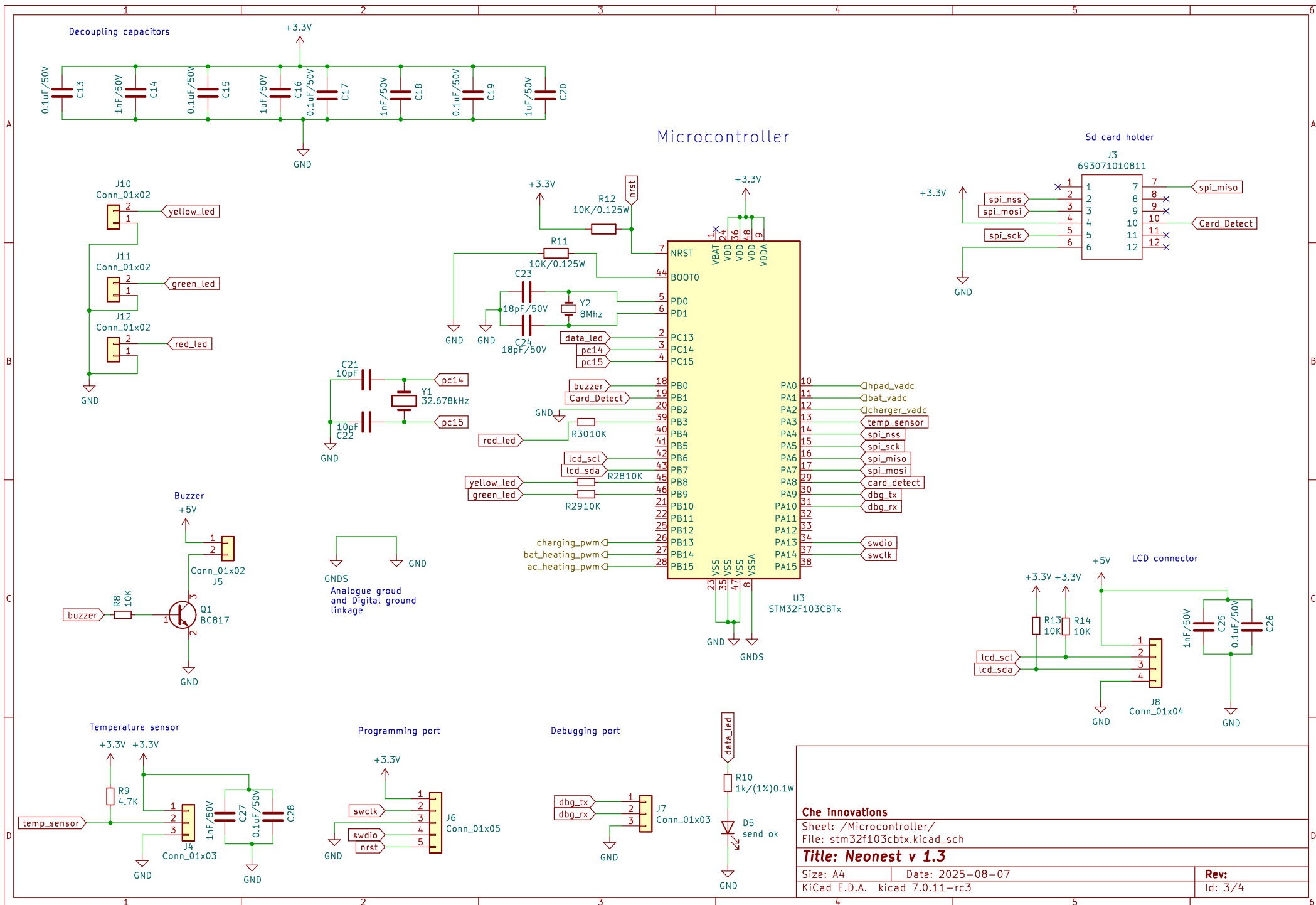
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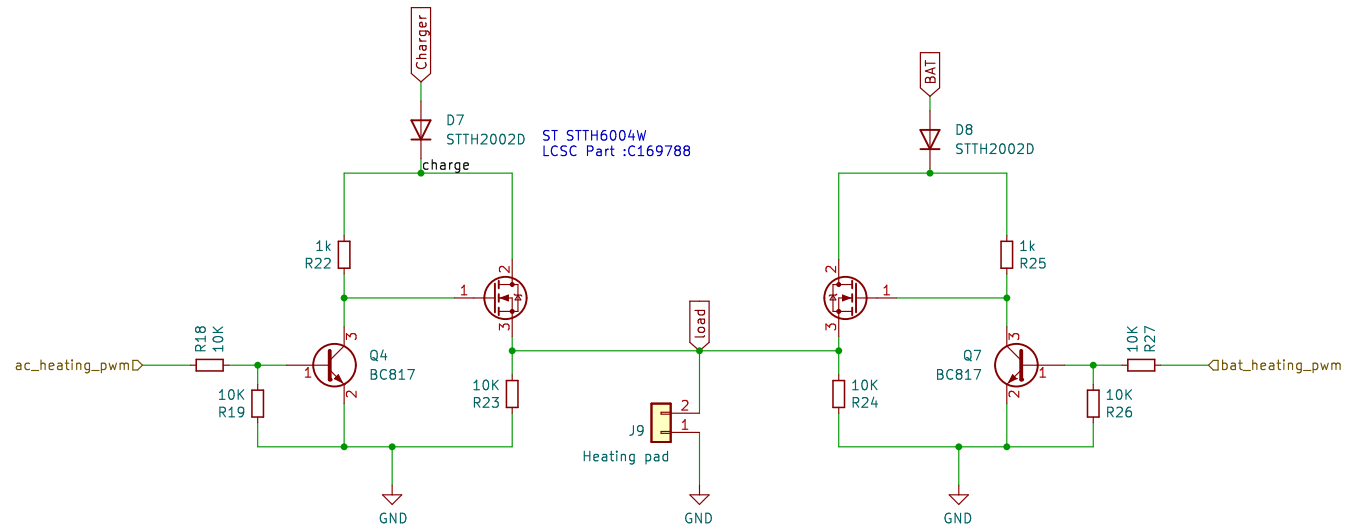
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Rev: 1

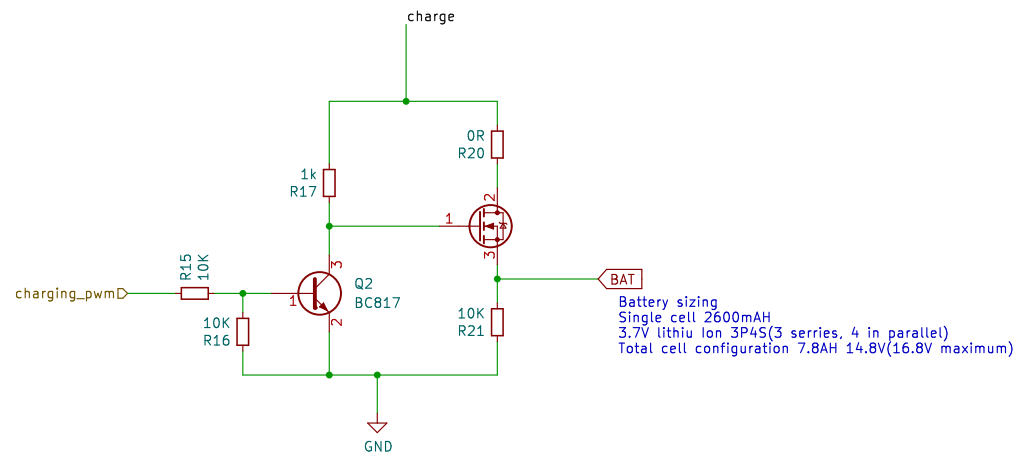
Id: 2/4



Heating pad power sources



Battery charging



Battery sizing
Single cell 2600mAh
3.7V lithiu lon 3P4S(3 series, 4 in parallel)
Total cell configuration 7.8AH 14.8V(16.8V maximum)

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Sheet: /Load/
File: mosfet_driver.kicad_sch

Title: Neonest v 1.3

Size: A4 Date: 2025-08-07
KiCad E.D.A. kicad 7.0.11-rc3

Rev:
Id: 4/4