

Drawn by: Orkhan Amiraslanov (azerimaker)
<https://www.thethingsindustries.com/>

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Sheet: /
File: ST-Node-V0.1.sch

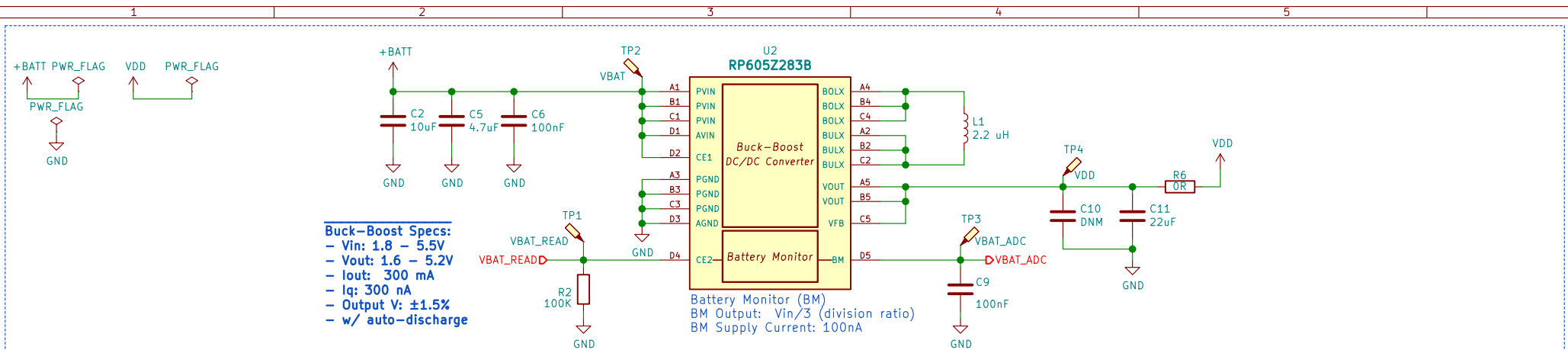
Title: ST LoRa Node

Size: A4 Date: 2020-04-07

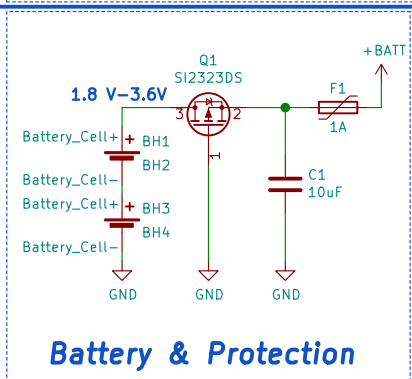
KiCad E.D.A. kicad (5.1.6)-1

Rev: 0.1

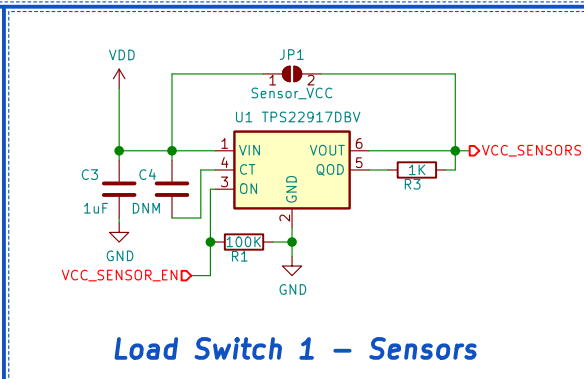
Id: 1/4



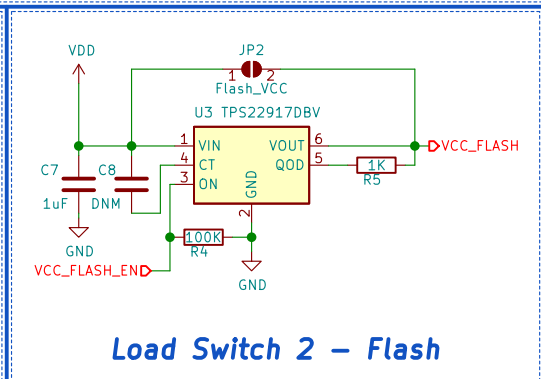
Buck-Boost Converter



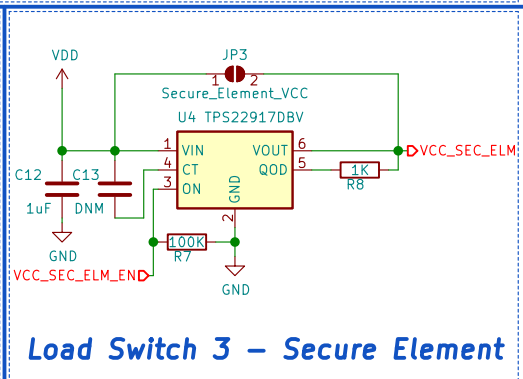
Battery & Protection



Load Switch 1 – Sensors



Load Switch 2 – Flash



Load Switch 3 – Secure Element

Example: Energizer Lithium Batteries L91
 Voltage: 1.5 V
 Capacity: >3000 mAh
 Size (mm): AA 50.5mm x 14.5mm
 Operating Temp: -40 °C to +60 °C

Mechanical parts and Fiducials



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Sheet: /Power Supply/

File: power-supply.sch

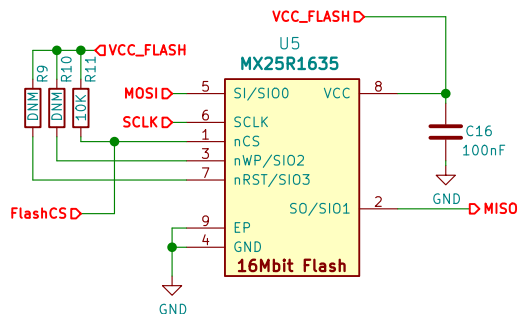
Title: Power Supply & Load Switches

Size: A4 Date: 2020-04-07

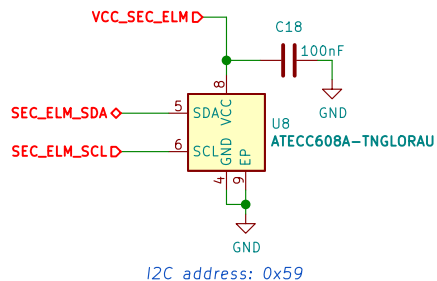
KiCad E.D.A. kicad (5.1.6)-1

Rev: 0.1

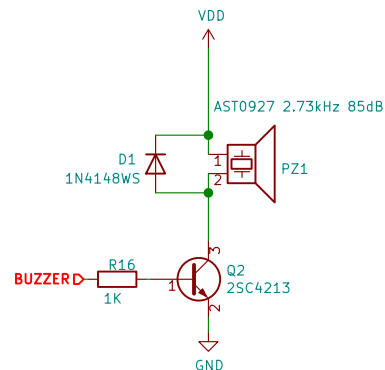
Id: 2/4



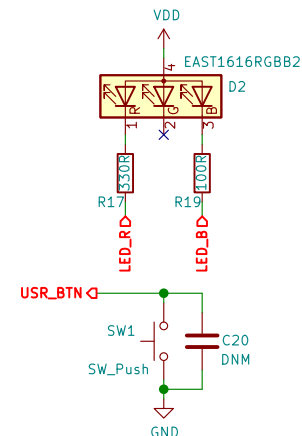
Flash Memory



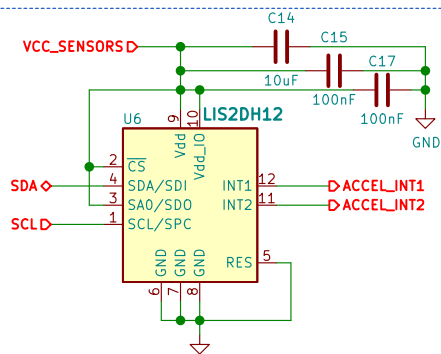
Crypto Authentication (Secure Element)



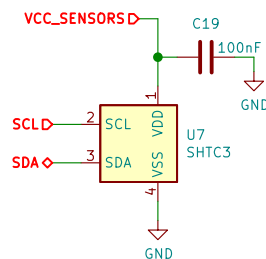
Buzzer



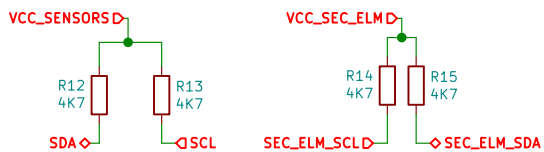
RGB LED & Button



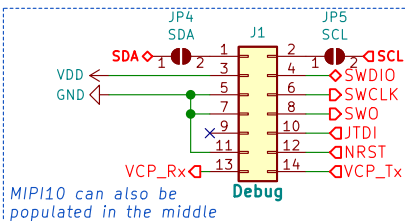
Accelerometer



Temperature & Humidity



I2C pull-ups



Debug Port STDC14

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Sheet: /Peripherals/

File: peripherals.sch

Title: Sensors & Peripherals

Size: A4 Date: 2020-04-07

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Rev: 0.1

Id: 3/4

