Car Battery @ 24V/12V

DC/DC
TPS54260

5V/2A

Buck-boost
TPS63610

4.2V (0.2A)

This will turn on only when the car battery is removed

LDO
TPS7A8001

3.3V (1A)

CE2

3.7V/1.8A

CE1

Battery Charger
bq24070

Load Switch
TPS22929B

LDO
TPS79501

2.7V (0.3A)

LDO
TPS79501/18

1.8V (0.3A)

CE2

Temp sense

Li-Po @ nom 3.7V, 1800mAh

Notes:

- The Li-Po is the backup battery and will only kick in when the car battery is removed. In normal operation, the car battery will power the system.
- CE1 is controlled by MCU.