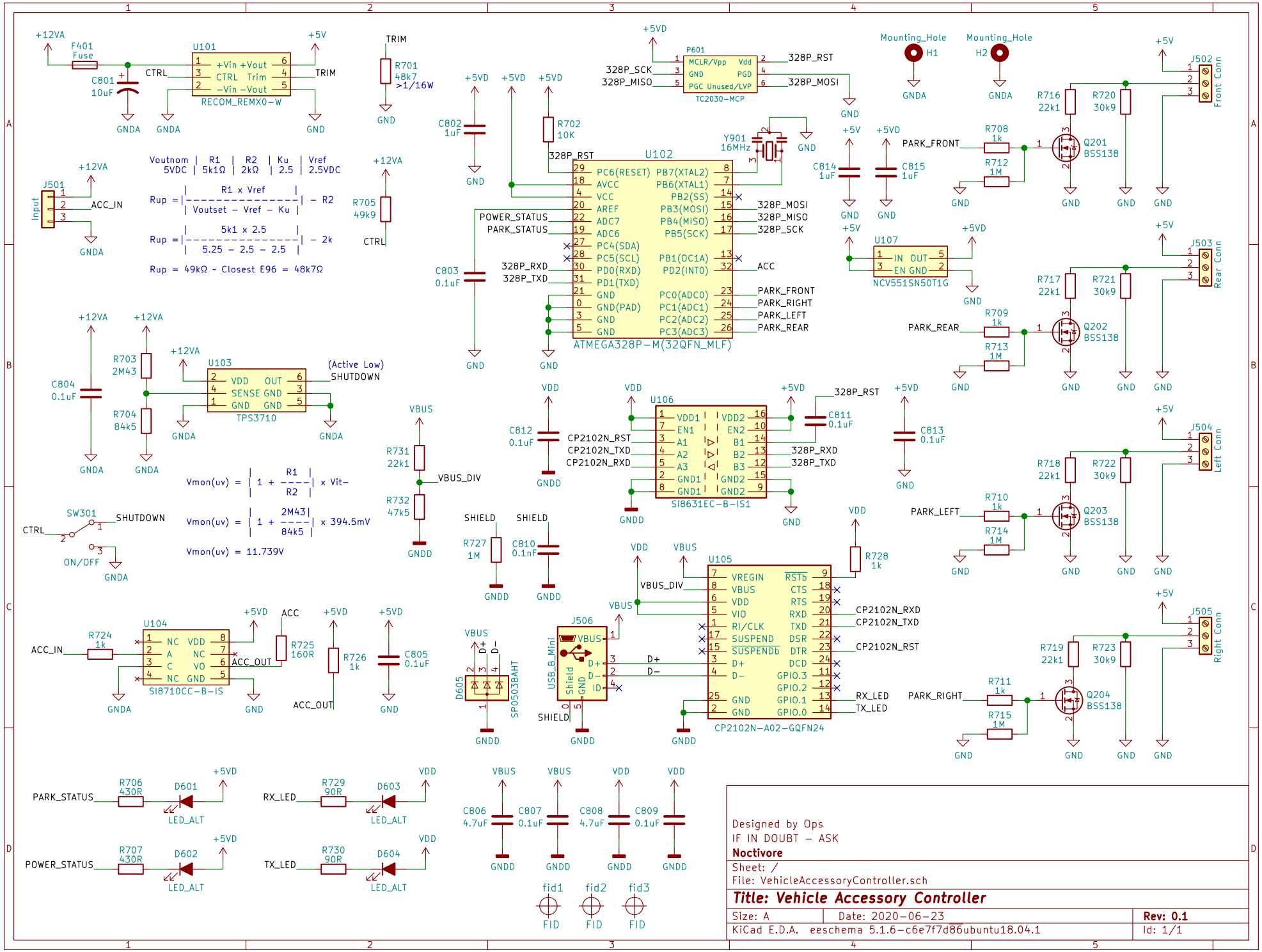
U101
RECOM_REMX0-W
U102
ATMEGA328P-M(32QFN_MLF)
U103
TPS3710
U104
SI8710CC-B-IS
U105
CP2102N-A02-GQFN24
U106
Si8631EC-B-IS1
U107
NCV551SN50T1G
P601
TC2030-MCP
J501
J502
J503
J504
J505
J506
Q201
Q202
Q203
Q204
BSS138
D601
D602
D603
D604
D605
SP0503BAHT
Y901
16MHz
SW301
Mounting_Hole
H1
H2
Voutnom | R1 | R2 | Ku | Vref
5VDC | 5k1Ω | 2kΩ | 2.5 | 2.5VDC
Rup = |R1 x Vref / (Voutset − Vref − Ku)| − R2
Rup = |5k1 x 2.5 / (5.25 − 2.5 − 2.5)| − 2k
Rup = 49kΩ ~ Closest E96 = 48k7Ω
Vmon(uv) = |1 + R1/R2| x Vit−
Vmon(uv) = |1 + 2M43/84k5| x 394.5mV
Vmon(uv) = 11.739V
Designed by Ops
IF IN DOUBT – ASK
Noctivore
Sheet: /
File: VehicleAccessoryController.sch
Title: Vehicle Accessory Controller
Size: A
Date: 2020-06-23
Rev: 0.1
KiCad E.D.A. eeschema 5.1.6-c6e7f7d86ubuntu18.04.1
Id: 1/1