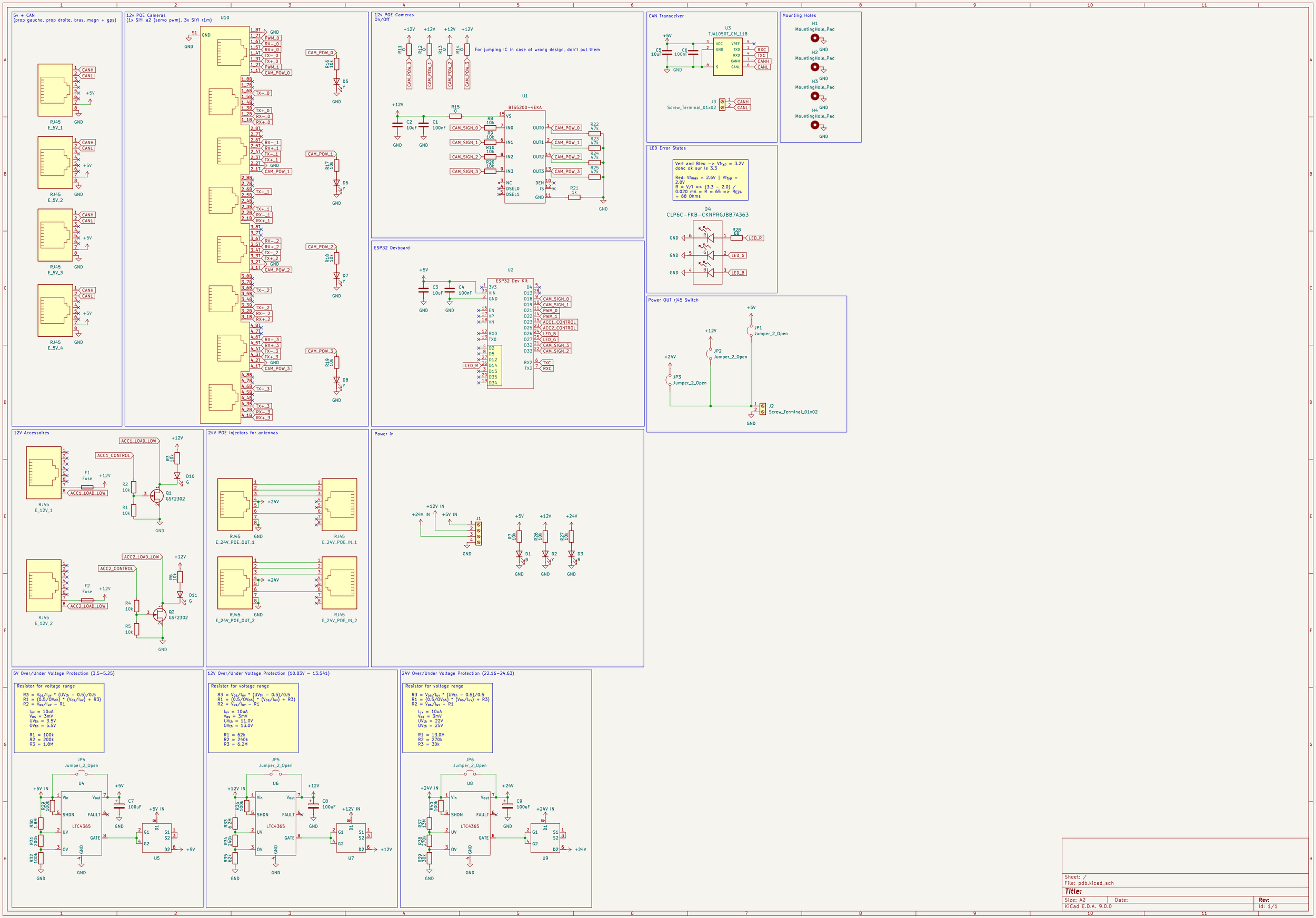
5v + CAN
(prop gauche, prop droite, bras, magn + gps)
12v POE Cameras
(1x SIYI a2 (servo pwm), 3x SIYI r1m)
U10
12v POE Cameras
On/Off
For jumping IC in case of wrong design, don't put them
U1
BTS5200-4EKA
CAN Transceiver
U3
TJA1050T_CM_118
Mounting Holes
LED Error States
Vert and Bleu -> Vf typ = 3.2V
donc ok sur le 3.3
Red: Vf max = 2.6V | Vf typ = 2.0V
R = V/I => (3.3 - 2.0) / 0.020 mA = R = 65 => R24 = 68 Ohms
D4
CLP6C-FKB-CKNPRGJBB7A363
ESP32 Devboard
U2
ESP32 Dev Kit
Power OUT rj45 Switch
12V Accessoires
24V POE Injectors for antennas
Power in
5V Over/Under Voltage Protection (3.5-5.25)
Resistor for voltage range
R3 = Vos/Iuv * (UVth - 0.5)/0.5
R1 = (0.5/OVsh) * (Vos/Iuv) + R3)
R2 = Vos/Iuv - R1
Iuv = 10uA
Vos = 3mV
UVth = 3.5V
OVth = 5.5V
R1 = 100k
R2 = 200k
R3 = 1.8M
12V Over/Under Voltage Protection (10.83V - 13.541)
Resistor for voltage range
R3 = Vos/Iuv * (UVth - 0.5)/0.5
R1 = (0.5/OVsh) * (Vos/Iuv) + R3)
R2 = Vos/Iuv - R1
Iuv = 10uA
Vos = 3mV
UVth = 11.0V
OVth = 13.0V
R1 = 62k
R2 = 240k
R3 = 6.2M
24V Over/Under Voltage Protection (22.16-24.63)
Resistor for voltage range
R3 = Vos/Iuv * (UVth - 0.5)/0.5
R1 = (0.5/OVsh) * (Vos/Iuv) + R3)
R2 = Vos/Iuv - R1
Iuv = 10uA
Vos = 3mV
UVth = 22V
OVth = 25V
R1 = 13.0M
R2 = 270k
R3 = 30k
LTC4365
Sheet: /
File: pdb.kicad_sch
Title:
Size: A2
Date:
Rev:
KiCad E.D.A. 9.0.0
Id: 1/1