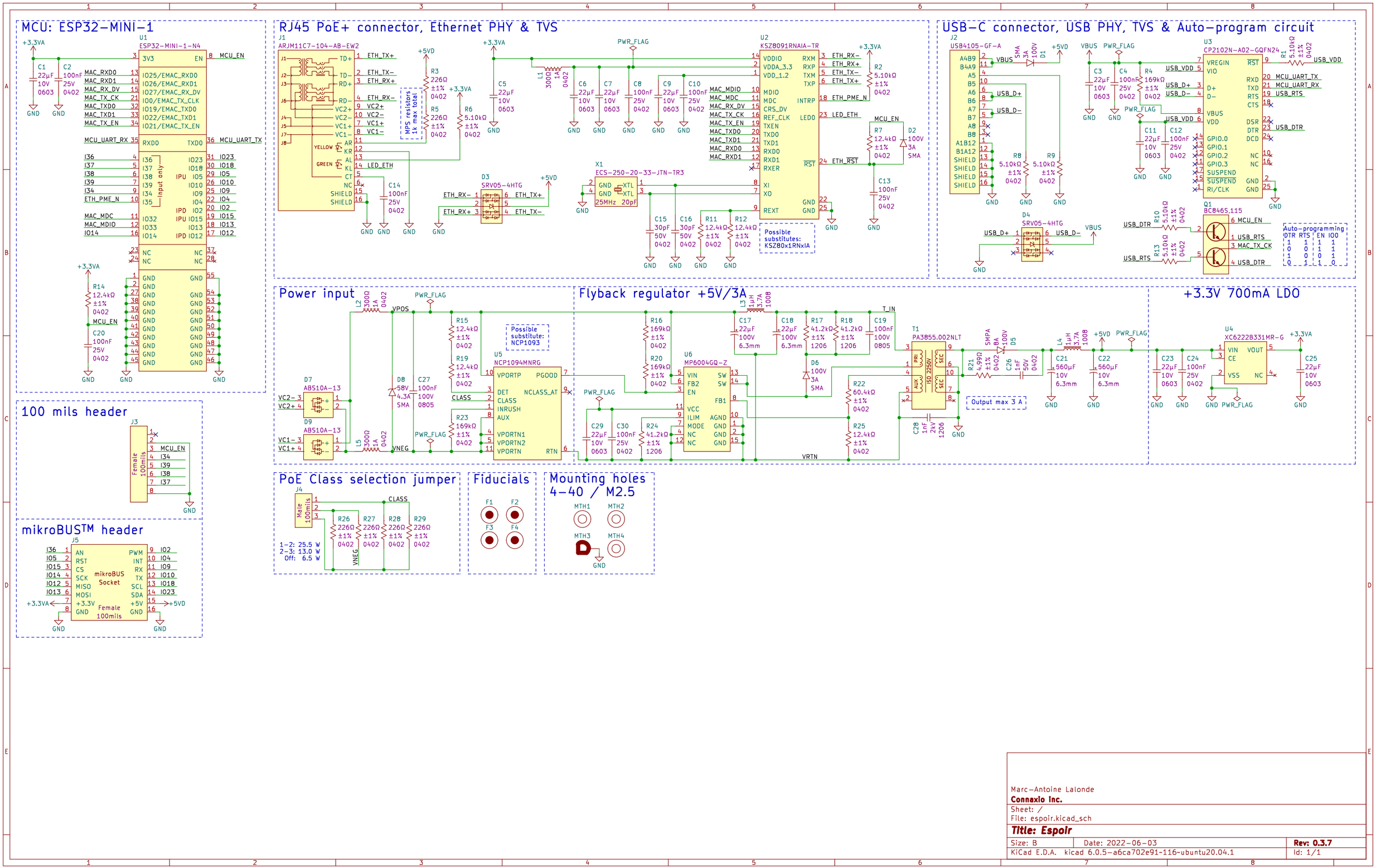
MCU: ESP32-MINI-1
U1
ESP32-MINI-1-N4
RJ45 PoE+ connector, Ethernet PHY & TVS
J1
ARJM11C7-104-AB-EW2
U2
KSZ8091RNAIA-TR
Possible substitutes: KSZ80x1RNxIA
MPS resistors 1k max total
X1
ECS-250-20-33-JTN-TR3
25MHz 20pF
D3
SRV05-4HTG
USB-C connector, USB PHY, TVS & Auto-program circuit
J2
USB4105-GF-A
U3
CP2102N-A02-GQFN24
Q1
BC846S,115
D4
SRV05-4HTG
Auto-programming
Power input
Flyback regulator +5V/3A
+3.3V 700mA LDO
U5
NCP1094MNRG
Possible substitute: NCP1093
U6
MP6004GQ-Z
T1
PA3855.002NLT
Output max 3 A
U4
XC6222B331MR-G
100 mils header
J3
Female 100mils
mikroBUS™ header
J5
mikroBUS Socket
Female 100mils
PoE Class selection jumper
J4
Male 100mils
1-2: 25.5 W
2-3: 13.0 W
Off: 6.5 W
Fiducials
Mounting holes
4-40 / M2.5
Marc-Antoine Lalonde
Connaxio Inc.
Sheet: /
File: espoir.kicad_sch
Title: Espoir
Size: B
Date: 2022-06-03
Rev: 0.3.7
KiCad E.D.A. kicad 6.0.5-a6ca702e91~116~ubuntu20.04.1
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