SIMCOM-PINS

SOC

LoRa

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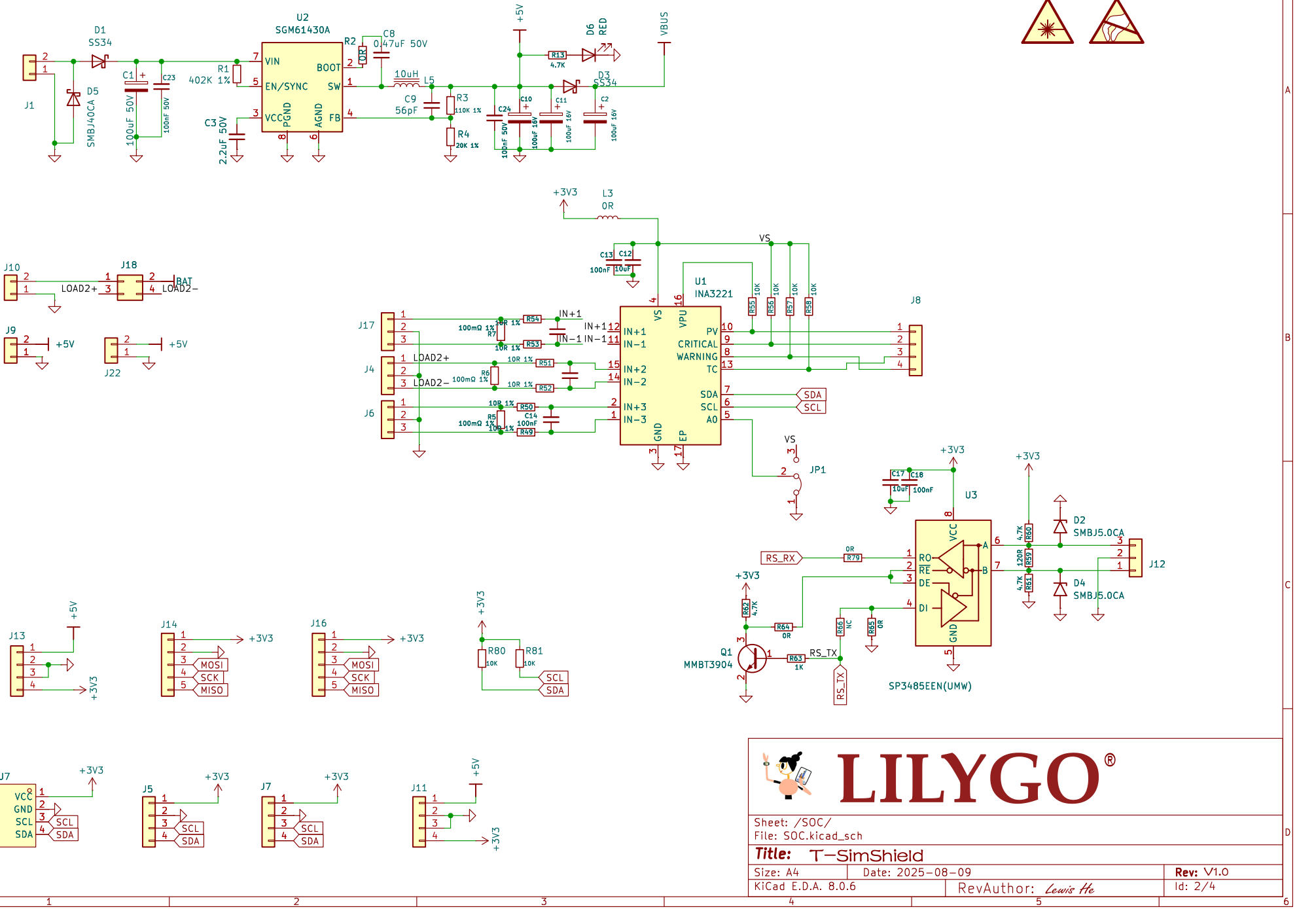
Sheet: /
File: Kicad_T-SimShield.kicad_sch

Title: T-SimShield

Size: A4	Date: 2025-08-09	**Rev:** V1.0
KiCad E.D.A. 8.0.6	RevAuthor: Lewis He	Id: 1/4


U2
SGM61430A
VIN
EN/SYNC
VCC
PGND
AGND
BOOT
SW
FB
D1
SS34
D5
SMBJ40CA
J1
C1
100uF 50V
C23
100nF 50V
R1
402K 1%
C3
2.2uF 50V
R2
0R
C8
0.47uF 50V
10uH
L5
C9
56pF
R3
110K 1%
R4
20K 1%
C24
10nF 50V
C10
100uF 16V
C11
100uF 16V
C2
100uF 16V
D3
SS34
D6
RED
R13
4.7K
+5V
VBUS
L3
0R
+3V3
C13
100nF
C12
10uF
VS
U1
INA3221
VS
VPU
IN+1
IN-1
IN+2
IN-2
IN+3
IN-3
GND
EP
PV
CRITICAL
WARNING
TC
SDA
SCL
A0
R55 10K
R56 10K
R57 10K
R58 10K
J8
J17
J4
J6
LOAD2+
LOAD2-
100mΩ 1%
R7
R6
R5
10R 1%
R54
R53
R51
R52
R50
R49
C14
100nF
IN+1
IN-1
J10
J18
LOAD2+
BAT
LOAD2-
J9
+5V
J22
+5V
JP1
U3
SP3485EEN(UMW)
VCC
GND
RO
RE
DE
DI
A
B
C17
10uF
C18
100nF
RS_RX
R79
0R
RS_TX
R62
4.7K
R64
0R
R66
NC
R65
0R
R63
1K
Q1
MMBT3904
R60
4.7K
R59
120R
R61
4.7K
D2
SMBJ5.0CA
D4
SMBJ5.0CA
J12
J13
J14
MOSI
SCK
MISO
J16
MOSI
SCK
MISO
R80
10K
R81
10K
SCL
SDA
U7
VCC
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J5
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SDA
J7
SCL
SDA
J11
LILYGO®
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Title: T-SimShield
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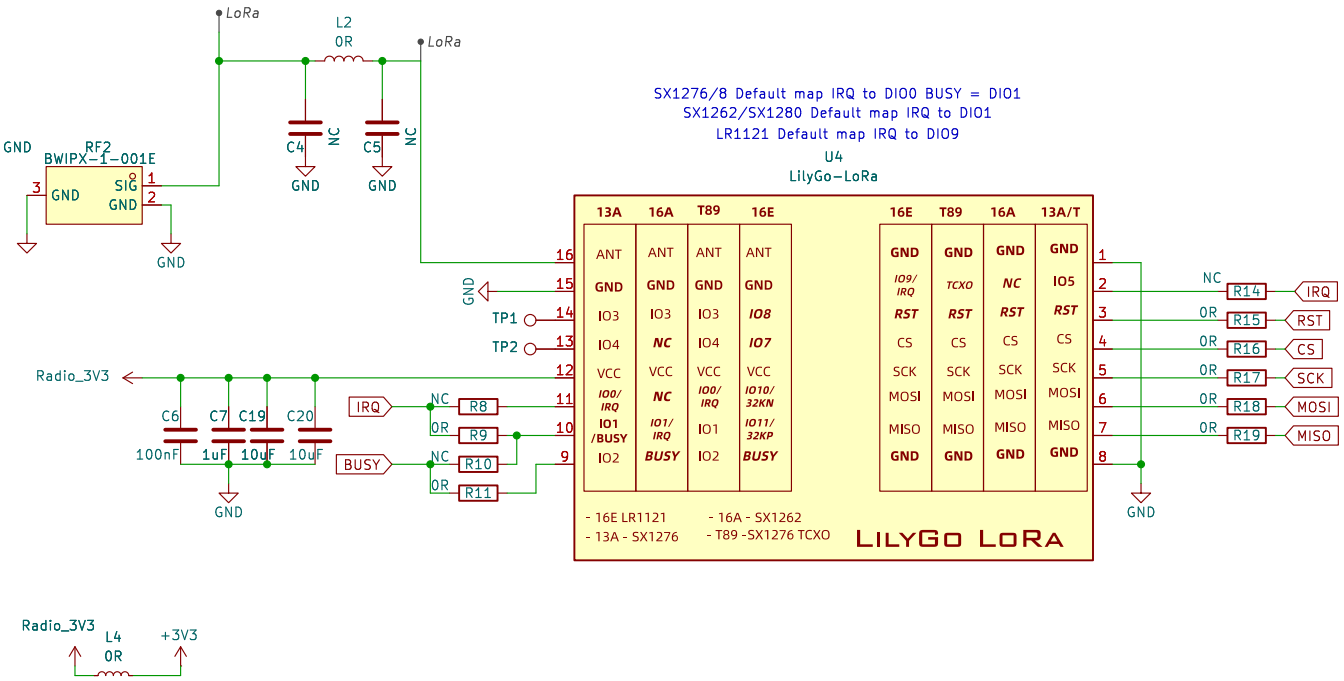
Date: 2025-08-09
Rev: V1.0
KiCad E.D.A. 8.0.6
RevAuthor: Lewis He
Id: 2/4



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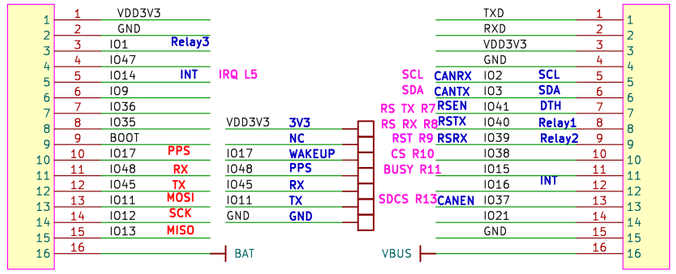
KiCad E.D.A. 8.0.6	RevAuthor: Lewis He	Id: 3/4

A7670X-S3



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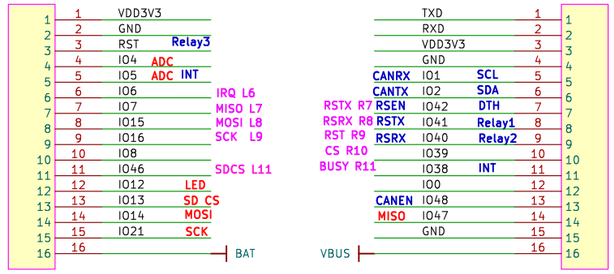

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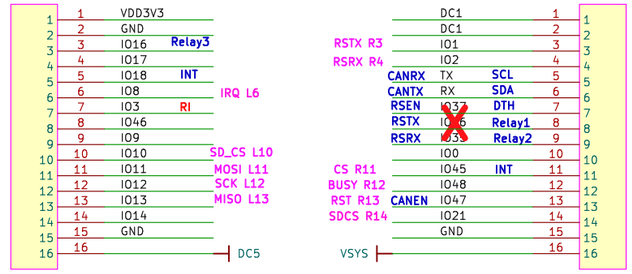

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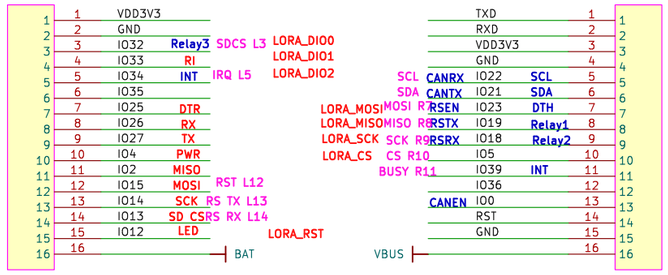
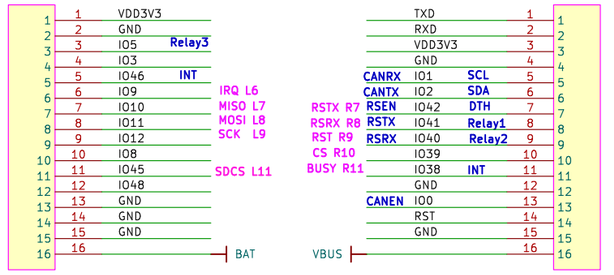


A7608X-S3



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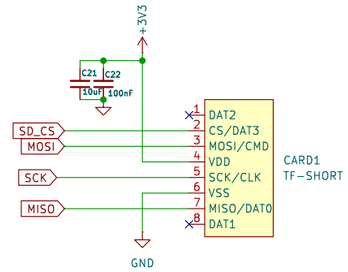
SIM7000x: MIN:3.0 TYPE:3.8 MAX:4.3V
A7608X: MIN:3.4 TYPE:3.8 MAX:4.2V
SIM7080G: MIN:2.7 TYPE:3.8 MAX:4.2V



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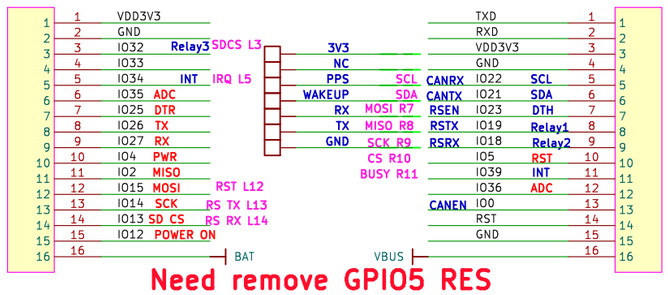
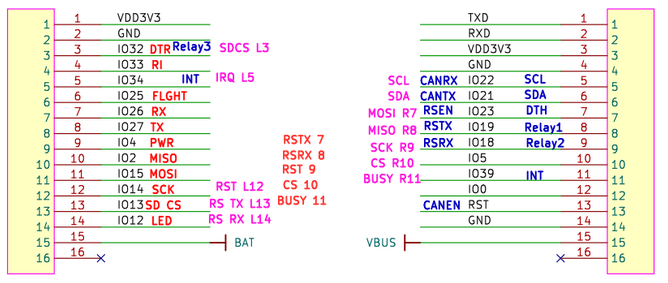


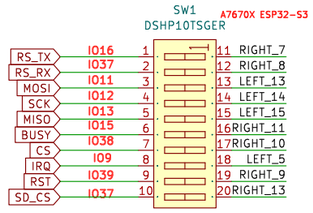
Need remove GPIO5 RES

SIM7600-ESP32



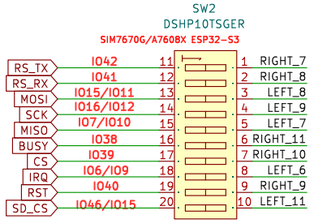
SW1 DSHP10TSGER

A7670X ESP32-S3



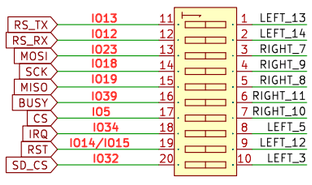
SW2 DSHP10TSGER

SIM7670G/A760BX ESP32-S3



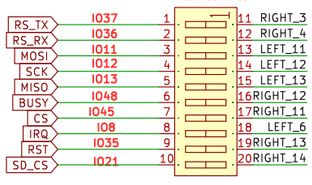
SIM7600/A7670/SIM7000 ESP32

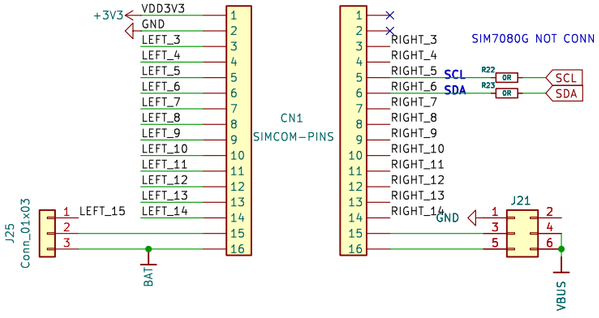
SW3 DSHP10TSGER



SW4 DSHP10TSGER

SIM7080G-S3





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