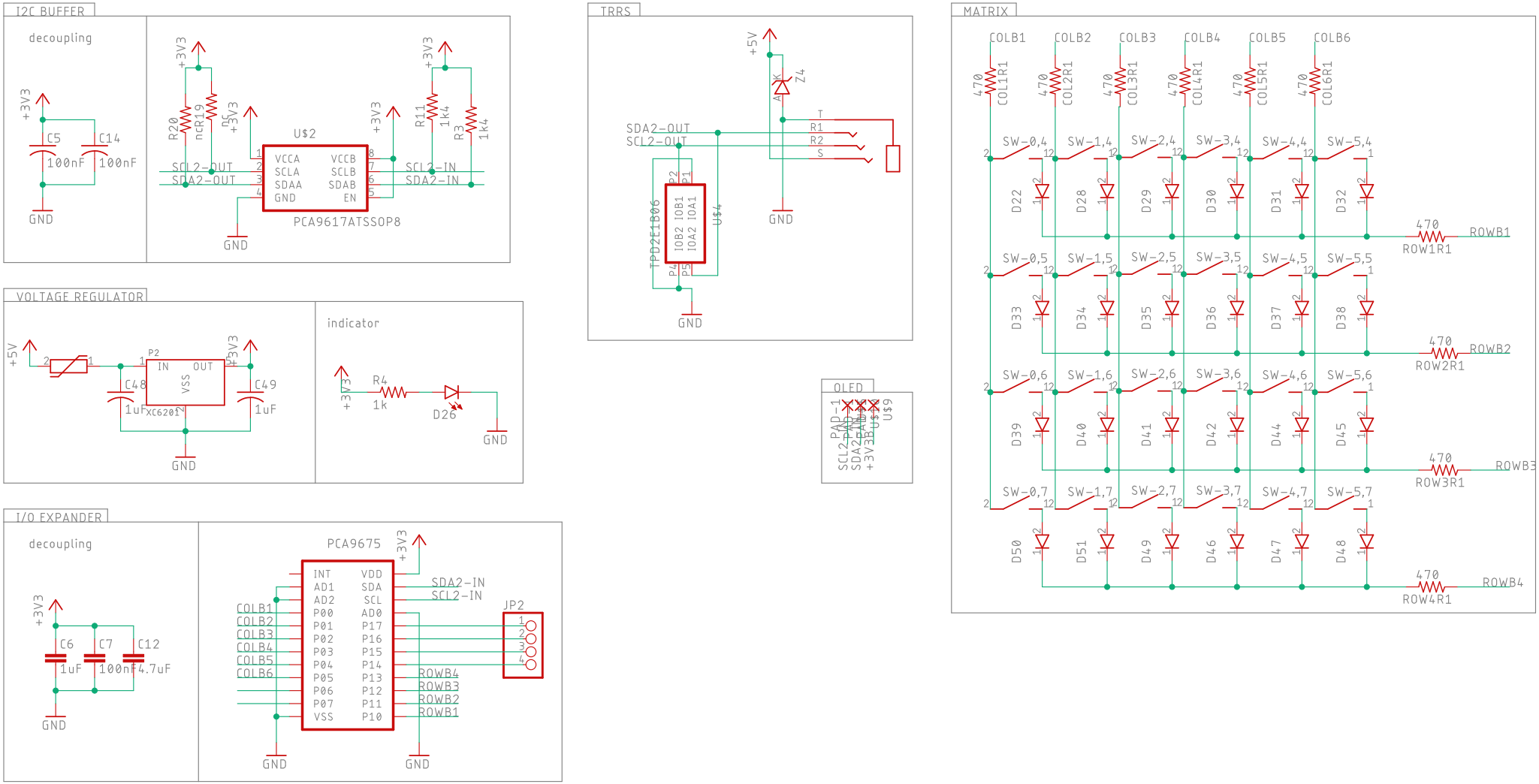
I2C BUFFER
decoupling
+3V3
C5
100nF
C14
100nF
GND
R20
nc
R19
nc
U$2
VCCA
SCLA
SDAA
GND
VCCB
SCLB
SDAB
EN
SCL2-OUT
SDA2-OUT
SCL2-IN
SDA2-IN
PCA9617ATSSOP8
R11
1k4
R3
1k4
TRRS
+5V
Z4
SDA2-OUT
SCL2-OUT
T
R1
R2
S
TPD2E1B06
IOB2 IOB1
IOA2 IOA1
U$4
GND
VOLTAGE REGULATOR
+5V
P2
IN
OUT
VSS
XC6201
C48
1uF
C49
1uF
indicator
R4
1k
D26
OLED
PAD-1
U$9
MATRIX
COLB1
COLB2
COLB3
COLB4
COLB5
COLB6
470
COL1R1
COL2R1
COL3R1
COL4R1
COL5R1
COL6R1
SW-0,4
SW-1,4
SW-2,4
SW-3,4
SW-4,4
SW-5,4
SW-0,5
SW-1,5
SW-2,5
SW-3,5
SW-4,5
SW-5,5
SW-0,6
SW-1,6
SW-2,6
SW-3,6
SW-4,6
SW-5,6
SW-0,7
SW-1,7
SW-2,7
SW-3,7
SW-4,7
SW-5,7
D22
D28
D29
D30
D31
D32
D33
D34
D35
D36
D37
D38
D39
D40
D41
D42
D44
D45
D50
D51
D49
D46
D47
D48
ROWB1
ROW1R1
ROWB2
ROW2R1
ROWB3
ROW3R1
ROWB4
ROW4R1
I/O EXPANDER
decoupling
C6
1uF
C7
100nF
C12
4.7uF
PCA9675
INT
AD1
AD2
P00
P01
P02
P03
P04
P05
P06
P07
VSS
VDD
SDA
SCL
AD0
P17
P16
P15
P14
P13
P12
P11
P10
SDA2-IN
SCL2-IN
JP2
ROWB4
ROWB3
ROWB2
ROWB1