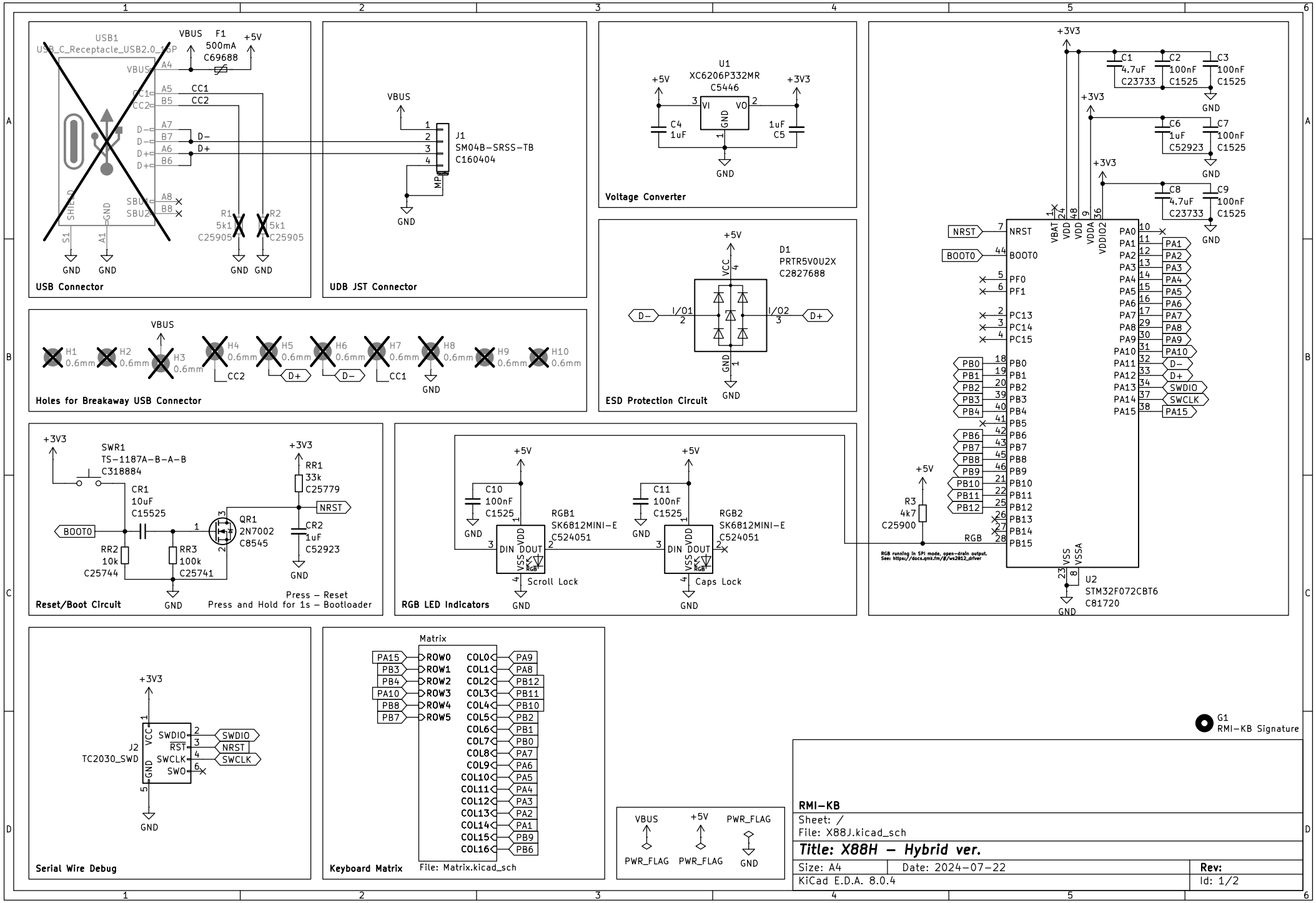
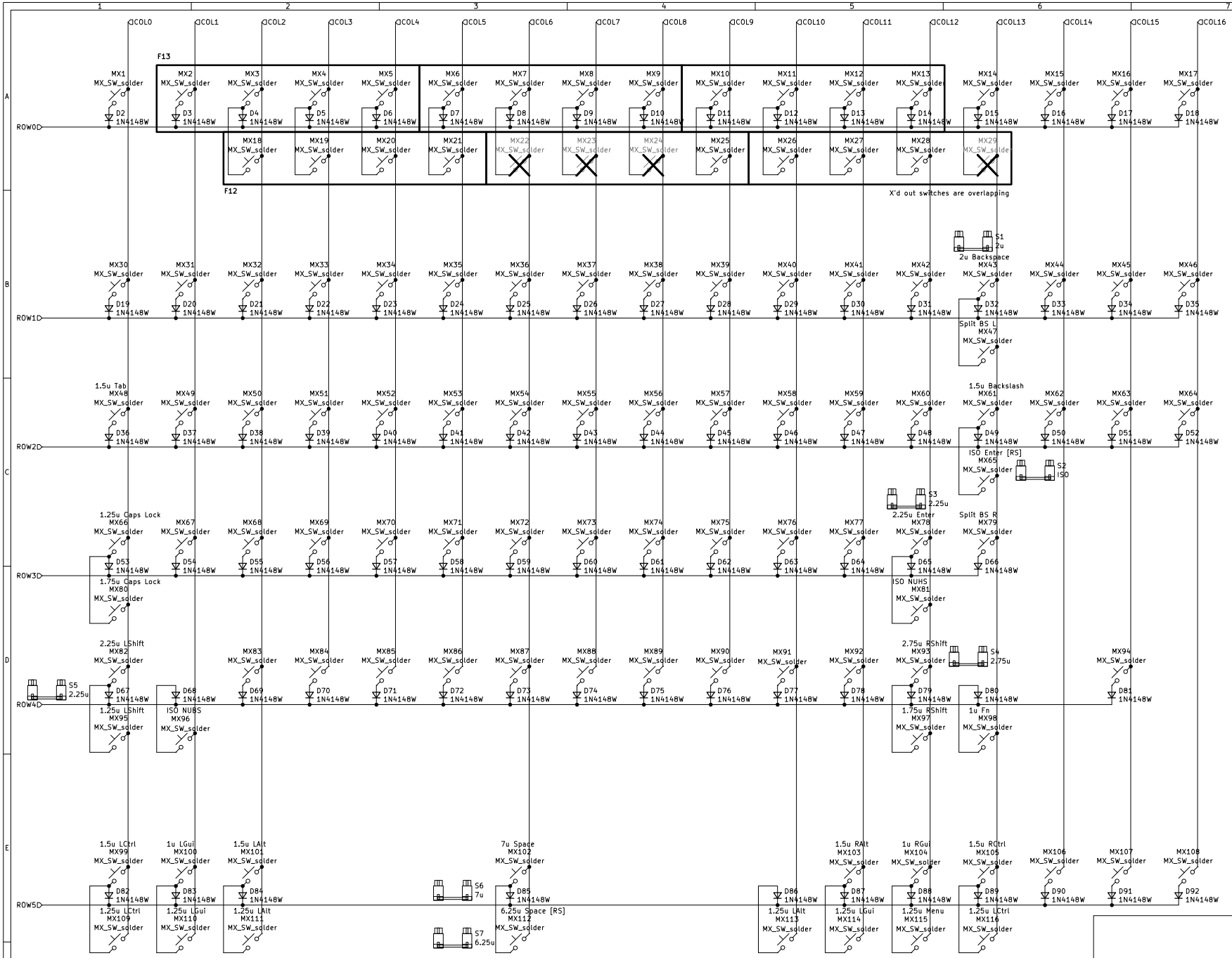

USB Connector
USB1
USB_C_Receptacle_USB2.0_16P
VBUS
F1
500mA
C69688
+5V
CC1
CC2
D−
D+
SBU1
SBU2
R1
5k1
C25905
R2
5k1
C25905
GND
UDB JST Connector
J1
SM04B−SRSS−TB
C160404
MP
Voltage Converter
U1
XC6206P332MR
C5446
+3V3
C4
1uF
C5
1uF
ESD Protection Circuit
D1
PRTR5V0U2X
C2827688
VCC
I/O1
I/O2
Holes for Breakaway USB Connector
H1 0.6mm
H2 0.6mm
H3 0.6mm
H4 0.6mm
H5 0.6mm
H6 0.6mm
H7 0.6mm
H8 0.6mm
H9 0.6mm
H10 0.6mm
Reset/Boot Circuit
SWR1
TS−1187A−B−A−B
C318884
CR1
10uF
C15525
BOOT0
RR2
10k
C25744
RR3
100k
C25741
QR1
2N7002
C8545
RR1
33k
C25779
NRST
CR2
1uF
C52923
Press − Reset
Press and Hold for 1s − Bootloader
RGB LED Indicators
C10
100nF
C1525
RGB1
SK6812MINI−E
C524051
DIN
DOUT
VDD
VSS
Scroll Lock
C11
100nF
C1525
RGB2
SK6812MINI−E
C524051
Caps Lock
C1
4.7uF
C23733
C2
100nF
C1525
C3
100nF
C1525
C6
1uF
C52923
C7
100nF
C1525
C8
4.7uF
C23733
C9
100nF
C1525
R3
4k7
C25900
RGB
RGB running in SPI mode, open−drain output.
See: https://docs.qmk.fm/#/ws2812_driver
NRST
BOOT0
VBAT
VDD
VDDA
VDDIO2
VSS
VSSA
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA8
PA9
PA10
PA11
PA12
PA13
PA14
PA15
D−
D+
SWDIO
SWCLK
U2
STM32F072CBT6
C81720
Serial Wire Debug
J2
TC2030_SWD
SWDIO
RST
SWCLK
SWO
Keyboard Matrix
Matrix
File: Matrix.kicad_sch
ROW0
ROW1
ROW2
ROW3
ROW4
ROW5
COL0
COL1
COL2
COL3
COL4
COL5
COL6
COL7
COL8
COL9
COL10
COL11
COL12
COL13
COL14
COL15
COL16
PWR_FLAG
G1
RMI−KB Signature
RMI−KB
Sheet: /
File: X88J.kicad_sch
Title: X88H − Hybrid ver.
Size: A4
Date: 2024−07−22
Rev:
KiCad E.D.A. 8.0.4
Id: 1/2



RMI-KB

Sheet: /Matrix/

File: Matrix.kicad_sch

Title: X88H – Hybrid ver.

Size: A3	Date:	**Rev:**
KiCad E.D.A. 8.0.4		Id: 1/2