Edge Connector

POWER

MCU Module Headers

ESD Projection

USB Serial

MCU Module modifications:
* Remove diode D10. This is the diode adjacent
  to the red LED near the USB connector.
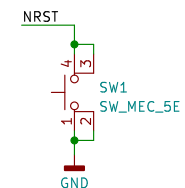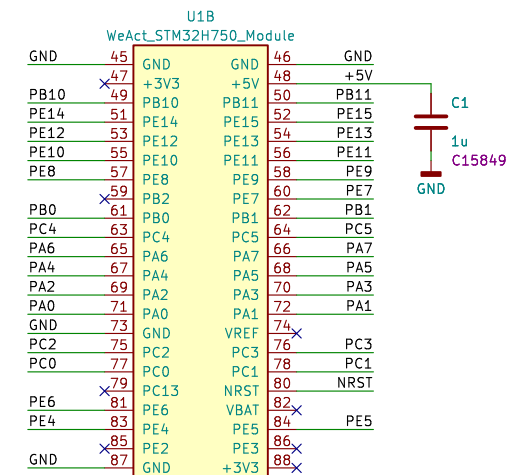
TODO: If possible. have a SWD connector at the top of the card.

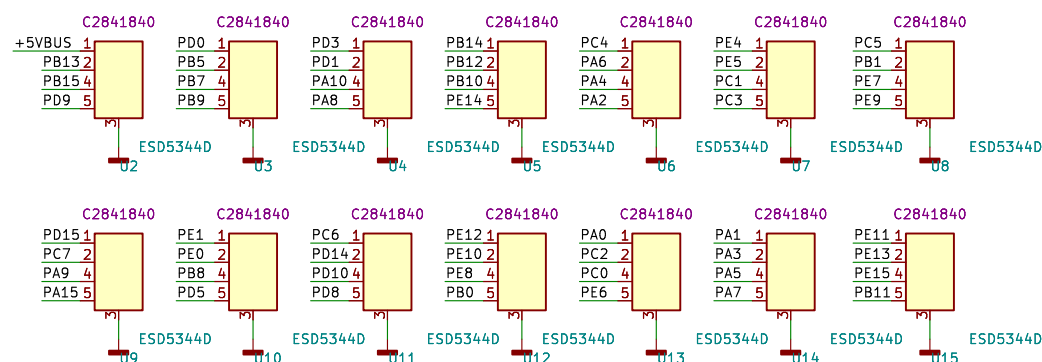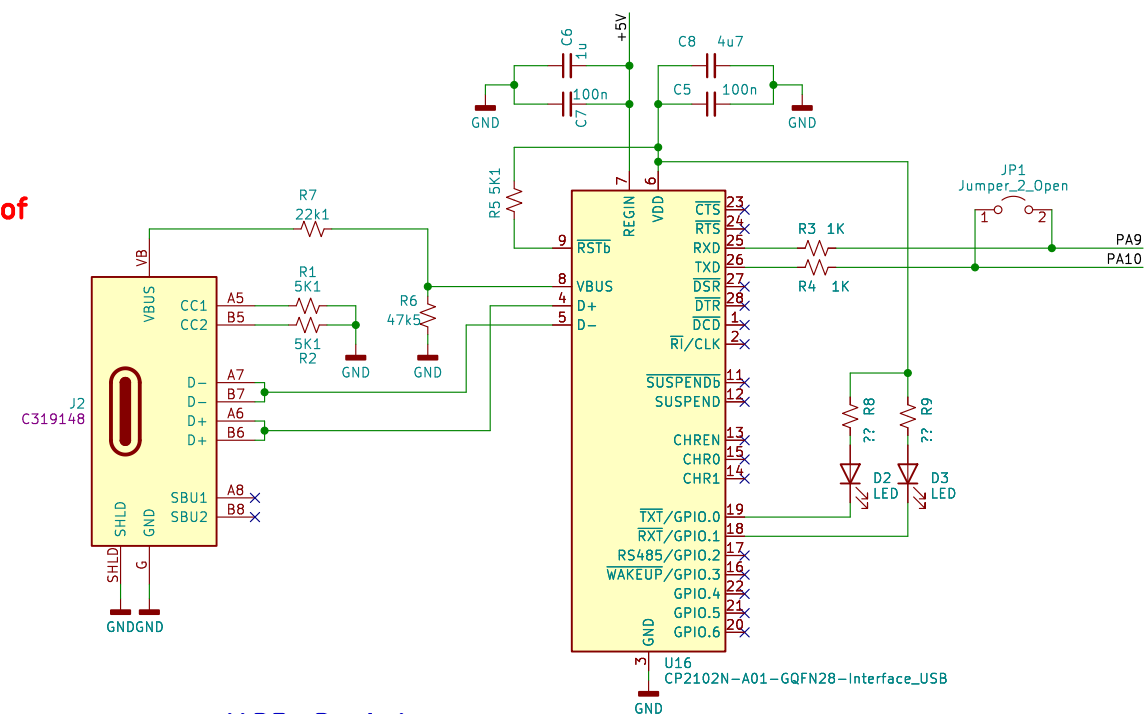TODO: Extend the pads of protection diodes

TODO: Do not populate C2

TODO: route reset switch at card edge

TODO: Add LEDs for data link RX/TX

TODO: Run the auxilary USB port from the 5V of
the bus power rather than the USB power.

PWR_FLAG
+5VBUS
GND

J1
Pcie_98

U1A
WeAct_STM32H750_Module

U1B
WeAct_STM32H750_Module

D1
B5819W SL
C8598
+5VBUS   +5V
C2   C3
C131115 100u   100u C131115
GND   GND

C4
1u
C15849
GND

C1
1u
C15849
GND

NRST
SW1
SW_MEC_5E
GND

J2
C31914B

U16
CP2102N-A01-GQFN28-Interface_USB

R7 22k1
R1 5K1
R2 5K1
R6 47k5
R5 5K1
C6 1u
C7 100n
C8 4u7
C5 100n
GND
REGIN
RSTb
VBUS
CTS
RTS
RXD
TXD
DSR
DTR
DCD
RI/CLK
SUSPENDb
SUSPEND
CHREN
CHR0
CHR1
TXT/GPIO.0
RXT/GPIO.1
RS485/GPIO.2
WAKEUP/GPIO.3
GPIO.4
GPIO.5
GPIO.6
GND

R3 1K
R4 1K
JP1
Jumper_2_Open
PA9
PA10

R8
R9
D2 LED
D3 LED

C2841840
ESD5344D