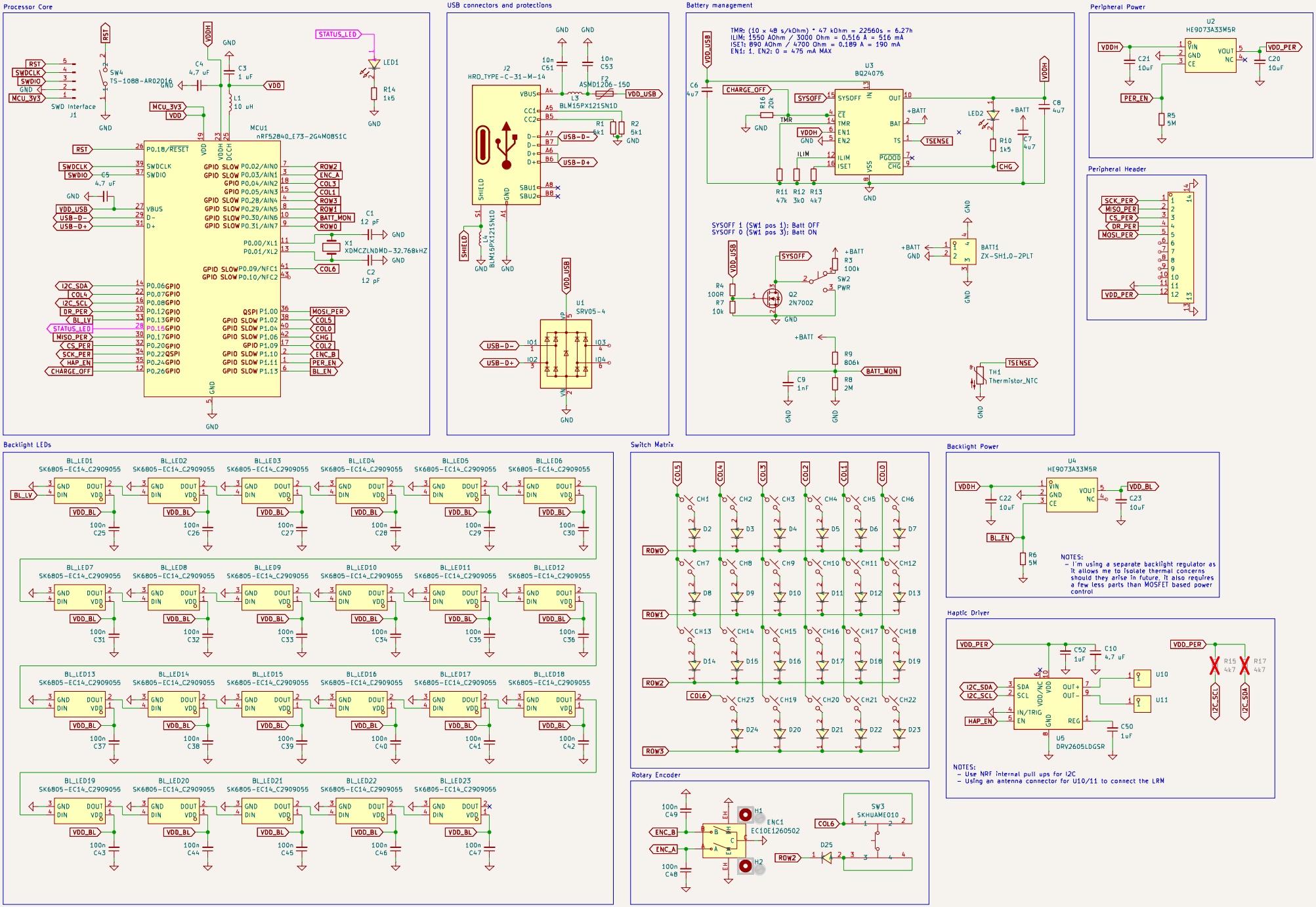
Processor Core
USB connectors and protections
Battery management
Peripheral Power
Peripheral Header
Backlight LEDs
Switch Matrix
Backlight Power
Haptic Driver
Rotary Encoder
MCU1
nRF52840_E73-2G4M08S1C
J2
HRO_TYPE-C-31-M-14
U3
BQ24075
U2
HE9073A33M5R
U4
HE9073A33M5R
U5
DRV2605LDGSR
U1
SRV05-4
SW4
TS-1088-AR02016
SWD Interface
J1
X1
XDMCZLNDMD-32.768kHZ
LED1
LED2
Q2
2N7002
BATT1
ZX-SH1.0-2PLT
TH1
Thermistor_NTC
ENC1
EC10E1260502
SW3
SKHUAME010
TMR: (10 x 48 s/kOhm) * 47 kOhm = 22560s = 6.27h
ILIM: 1550 AOhm / 3000 Ohm = 0.516 A = 516 mA
ISET: 890 AOhm / 4700 Ohm = 0.189 A = 190 mA
EN1: 1, EN2: 0 = 475 mA MAX
SYSOFF 1 (SW1 pos 1): Batt OFF
SYSOFF 0 (SW1 pos 3): Batt ON
NOTES:
- I'm using a separate backlight regulator as it allows me to isolate thermal concerns should they arise in future. It also requires a few less parts than MOSFET based power control
NOTES:
- Use NRF internal pull ups for I2C
- Using an antenna connector for U10/11 to connect the LRM