

The schematic diagram illustrates the nRF52840-E73-2G40B51C microcontroller board. Key components and connections include:

- Microcontroller:** MCU1 nRF52840-E73-2G40B51C.
- Reset:** A reset button (RST) connected to the RST pin (pin 26) and GND.
- SWD Interface:** SWDCLK (pin 39), SWDIO (pin 37), and GND (pin 2) connections.
- USB:** VDD_USB (pin 27), USB-D- (pin 29), and USB-D+ (pin 31) connections.
- Status LED:** A green LED (LED1) connected to the STATUS_LED pin (pin 12) and GND.
- Power:** VDD (pin 19), VDDIO (pin 23), and GND (pin 2) connections.
- Other Pins:** Various pins for I2C, SPI, and other peripherals are shown, including I2C_SDA, I2C_SCL, DR_PER, BL_LV, CS_PER, SCK_PER, HAP_EN, CHARGE_OFF, P0.06/GPIO, P0.07/GPIO, P0.08/GPIO, P0.12/GPIO, P0.13/GPIO, P0.16/GPIO, P0.17/GPIO, P0.20/GPIO, P0.22/SPI, P0.24/GPIO, P0.26/GPIO, P0.02/AIN0, P0.03/AIN1, P0.04/AIN2, P0.05/AIN3, P0.28/AIN4, P0.29/AIN5, P0.30/AIN6, P0.31/AIN7, P0.09/NFC1, P0.10/NFC2, QSPI_P1.00, QSPI_SLOW_P1.02, QSPI_SLOW_P1.06, QSPI_SLOW_P1.09, QSPI_SLOW_P1.10, QSPI_SLOW_P1.11, QSPI_SLOW_P1.13, MOSI_PER, COL5, COL0, COL1, COL2, ENC_B, and BL_EN.

[illegible]

U4
HE9073A33M5R

VDDH

C22 10uF

VDD_BI

R6 5M

C23 10uF

VOUT NC

NOTES:

- I'm using a separate backlight regulator. It allows me to isolate thermal concerns should they arise in future. It also requires a few less parts than MOSFET based power control