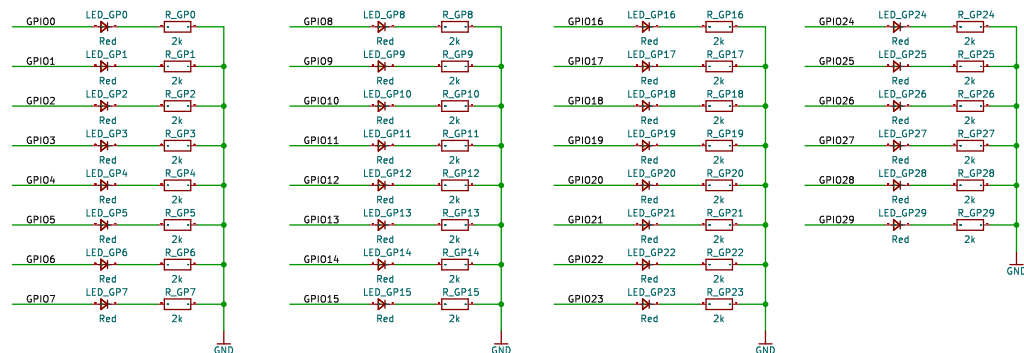


Pinout diagram for the FEMTO V1 Module. The diagram shows a 40-pin connector on the left with pins numbered 1 to 40. Pins 1-10 are labeled: 1 USB_P (red), 2 USB_N (blue), 3 MCU_SWIO (green), 4 MCU_SWCLK (green), 5 BOOTSEL (green), 6 MCU_RUN (blue), 7 SWDIO (green), 8 SWCLK (green), 9 BOOTSEL (green), 10 RUN (blue). Pins 11-20 are labeled: 11 GPI00 (blue), 12 GPI01 (blue), 13 GPI02 (blue), 14 GPI03 (blue), 15 GPI04 (blue), 16 GPI05 (blue), 17 GPI06 (blue), 18 GPI07 (blue), 19 GPI08 (blue), 20 GPI09 (blue). Pins 21-30 are labeled: 21 GPI010 (blue), 22 GPI011 (blue), 23 GPI012 (blue), 24 GPI013 (blue), 25 GPI014 (blue), 26 GPI015 (blue), 27 GPI016 (blue), 28 GPI017 (blue), 29 GPI018 (blue), 30 GPI019 (blue). Pins 31-40 are labeled: 31 GPI020 (blue), 32 GPI021 (blue), 33 GPI022 (blue), 34 GPI023 (blue), 35 GPI024 (blue), 36 GPI025 (blue), 37 GPI026_ADC0 (blue), 38 GPI027_ADC1 (blue), 39 GPI028_ADC2 (blue), 40 GPI029_ADC3 (blue). A 3.3V supply is connected to pins 4 and 5. Ground is connected to pins 6, 9, 12, 23, and 34. The module is labeled 'FEMTO V1 Module'.



LDO 3.3V/300mA, TSOP5 package:
On Semi NCP114ASN330T1G
Richtek RT9078-33GJ5

USB TYPE C

The diagram illustrates the electrical connections for the USB connector J1. The module, U262-161N-4BVC11, has several pins connected to external components:

- USB_P and USB_N:** These lines are connected to the module pins D1+ and D1- through a 27R resistor (R2, 1%) and to D2+ and D2- through another 27R resistor (R3, 1%). The power dissipation for these resistors is noted as 62.5mW.
- USB_CON_P and USB_CON_N:** These lines are connected directly to the module pins D1+ and D1-.
- PP5000_VIN:** This line is connected to the module pin A4.
- USB_CC1 and USB_CC2:** These lines are connected to the module pins A5 and A6 through 5.1k resistors (R4 and R5, 1%). The power dissipation for these resistors is noted as 62.5mW.
- Grounding:** The module pins GND and SHIELD are connected to the common ground.

SW1
TACT Switch
PTS525SM15MTR2LFS

MCU_RUN

GND

SW2
TACT Switch
PTS525SM15SMTR2LFS

BOOTSEL

GND

