

[illegible]

The diagram shows the pin configuration for the Meadow USB-C Power Boot Reset board (U7). The board has a 28-pin connector. The pins are connected as follows:

- Pin 1:** GND
- Pin 2:** GND
- Pin 3:** GND
- Pin 4:** GND
- Pin 5:** GND
- Pin 6:** GND
- Pin 7:** GND
- Pin 8:** GND
- Pin 9:** GND
- Pin 10:** GND
- Pin 11:** 3V3
- Pin 12:** 3V3
- Pin 13:** 3V3
- Pin 14:** 3V3
- Pin 15:** VBUS
- Pin 16:** 3V3_EN
- Pin 17:** F7_RST
- Pin 18:** GND
- Pin 19:** USB_D_P
- Pin 20:** USB_D_N
- Pin 21:** GND
- Pin 22:** F7_BOOT
- Pin 23:** 3V3
- Pin 24:** 5V
- Pin 25:** 5V
- Pin 26:** 5V
- Pin 27:** 5V
- Pin 28:** GND
- Pin 29:** GND
- Pin 30:** GND
- Pin 31:** GND
- Pin 32:** GND
- Pin 33:** GND
- Pin 34:** GND
- Pin 35:** GND
- Pin 36:** GND
- Pin 37:** GND

The board also features a 3V3 power input, a GND connection, and a REG_V output. The board is labeled "Meadow USB-C Power Boot Reset" and "U7".

Wiring diagram for Meadow Solar & Battery Power module:

- Module Pins (Left to Right):**
 - 1: GND
 - 2: GND
 - 3: GND
 - 4: 6V SOLAR_IN
 - 5: 6V SOLAR_IN
 - 6: 6V SOLAR_IN
 - 7: 6V SOLAR_IN
 - 8: GND
 - 9: GND
 - 10: GND
- Connections:**
 - 6V SOLAR (blue battery symbol) connected to pins 4, 5, 6, and 7.
 - GND (black battery symbol) connected to pins 1, 2, 3, 8, 9, and 10.
 - REG_V and VBAT output (black battery symbol) connected to pins 11 and 12.
 - 1.8V output (red battery symbol) connected to pins 13 and 14.
- Notes:**
 - Install R1 shunt (red text) near the VBAT output.
 - Module labeled: Meadow Solar & Battery Power.

Pinout diagram for the I2C interface of the ADXL345. The diagram shows four pins: COM4_RX, COM4_TX, I2C_CLK, and I2C_DATA. The COM4_RX and COM4_TX pins are connected to TP10 and TP9 respectively. The I2C_CLK pin is connected to TP8. The I2C_DATA pin is connected to TP7. The pins are also connected to a 3V3 supply and GND.

LED_RED R3 620

LED_GREEN R4 300

LED_BLUE R5 300

3V3

LTST-C19HE1WT-H

[illegible]

```
Stackup/Controlled Impedance (JLC7628 Stackup):
USB: 90 Diff Pair
    Outer layer: 0.19mm width, 0.11mm spacing
    Inner layer: 0.13mm width, 0.11mm spacing
GNSS Antenna: 50
    Outer layer: 0.29mm width
    Inner layer: 0.23mm width
```

H1
M2_Hole

H2
M2_Hole

H3
M2_Hole

H4
M2_Hole

U10
BME688

1 GND
2 CSB
3 SDI
4 SCK
5 SDO
6 VDDIO
7 GND
8 VDD

I2C Addr:
0x76 - GND
0x77 - VDD

3V3

R6
10k

I2C_DAT
I2C_CLK

R8
10k

C4
0.1u

C2
0.1u

GND

[illegible]

A circuit diagram showing a 18650 battery connected to a component labeled 1043P. The battery is represented by a rectangle with a '+' sign on the left and a '-' sign on the right. The text '18650' is written inside the rectangle. The component 1043P is represented by a rectangle with a '+' sign on the left and a '-' sign on the right. The text '1043P' is written inside the rectangle. A green wire connects the '+' terminal of the battery to the '+' terminal of the component. Another green wire connects the '-' terminal of the component to a ground symbol labeled 'GND'.

The diagram illustrates the pin connections for the NEO-M8U module (left) and the IC2 module (right). The NEO-M8U module has pins 13 through 24. The IC2 module has pins 1 through 12. The connections are as follows:


- 3V3 to GND (pin 13)
- LNA_EN (pin 14)
- RESERVED (pin 15)
- RESERVED (pin 16)
- RESERVED (pin 17)
- SDA/CS_N (pin 18)
- SCL/CLK (pin 19)
- TXD/CIPO (pin 20)
- RXD/COPI (pin 21)
- V_BCKP (pin 22)
- VCC (pin 23)
- GND (pin 24)

The IC2 module has pins 1 through 12. The connections are as follows:

- GND (pin 12)
- RF_IN (pin 11)
- GNSS_ANT (pin 10)
- GND (pin 9)
- ANT_PWR (pin 8)
- GNSS_RST_N (pin 7)
- VDD_USB (pin 6)
- USB_DP (pin 5)
- USB_DM (pin 4)
- EXTINT (pin 3)
- TIMEPULSE (pin 2)
- D_SEL (pin 1)
- SAFEBOOT_N (pin 1)

The diagram also shows the connection of the NEO-M8U module to the COM4_TX and COM4_RX pins of the IC2 module.

A circuit diagram showing a voltage divider. A 3V3 supply is connected to the top of two resistors, R1 and R2, which are connected in series. R1 has a value of 4.7k and R2 has a value of 4.7k. The output voltage, taken across R2, is connected to the I2C_DAT and I2C_CLK pins of the microcontroller.

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