

A circuit diagram showing a capacitor labeled '1043P' connected between 'VBAT' and 'GND'. Inside the capacitor's rectangular outline is a symbol for a 18650 battery cell, consisting of three cells in series. The positive terminal of the capacitor is connected to 'VBAT' and the negative terminal is connected to 'GND'.

The diagram shows the Meadow Solar & Battery Power module connected to a 5V regulator, a VBAT regulator, a 6V\_SOLAR regulator, and a GND connection. The module's pins are labeled 1 through 18. The 5V regulator is connected to the 5V pin and the 18 pin. The VBAT regulator is connected to the VBAT pin and the 18 pin. The 6V\_SOLAR regulator is connected to the 6V\_SOLAR pin and the 18 pin. The GND connection is connected to the GND pin and the 18 pin.

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Pin connections for MCP23008T-E/SS (U9):

- 1: SCL
- 2: SDA
- 3: A2
- 4: A1
- 5: A0
- 6: RESET #
- 7: NC
- 8: INT
- 9: VSS
- 10: N/C
- 11: VDD
- 12: GP7
- 13: GP6
- 14: GP5
- 15: GP4
- 16: GP3
- 17: GP2
- 18: GP1
- 19: GP0
- 20: N/C

Connections to Raspberry Pi 4:

- 12C\_CLK to Pi 40-pin header pin 3
- 12C\_DAT to Pi 40-pin header pin 4
- MCP\_RST to Pi 40-pin header pin 1
- MCP1\_INT to Pi 40-pin header pin 2
- VDD to 3V3
- VSS to GND
- GP7 to DISPLAY\_RST
- GP6 to DISPLAY\_DC
- GP5 to DISPLAY\_CS
- GP4 to DPAD\_LEFT
- GP3 to DPAD\_DOWN
- GP2 to DPAD\_RIGHT
- GP1 to DPAD\_UP
- GP0 to N/C

A circuit diagram showing a 3V3 supply connected to two resistors, R5 (4.7k) and R6 (4.7k). R5 is connected to the I2C\_DAT line, and R6 is connected to the I2C\_CLK line. This configuration provides pull-up for the I2C lines.

MEADOW F7 DEBUG ADDON MODULE

U15

Meadow Debug

1 ESP\_BOOT  
2 GND  
3 ESP\_TX  
4 ESP\_RX  
5 ESP\_RST  
6 ESP\_RST  
7 3V3  
8 ESP\_MTDIO  
9 ESP\_MTDIO  
10 ESP\_MTDIO  
11 GND  
12 MTCX  
13 ESP\_MTMIS  
14 COM1\_RX  
15 COM1\_TX  
16 F7\_RST  
17 F7\_JTDO  
18 F7\_JTDO  
19 F7\_SWCLK  
20 F7\_SWDIO

GND

3V3

R10 R18

0 0

D13/COM1\_RX  
D12/COM1\_TX

[illegible]

3V3

R4 20

D1 BAS70KFILM

SPK\_RIGHT CMT-7525-80-SMT

BUZZ\_RIGHT

R3 10k

Q1 FDV305N

GND

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