

Pin connection diagram for the Meadow Solar & Battery Power module. The module is a red rectangle with pins 1-10 on the left and 11-18 on the right. Connections include: 5V to pins 18, 17, 16, 15, 14, 13, 12, 11; VBAT to pins 14, 13, 12, 11; SOLAR\_V to pins 18, 17, 16, 15, 14, 13, 12, 11; 6V\_SOLAR to pins 1, 2, 3, 4, 5, 6, 7, 8; and GND to pins 1, 2, 3, 4, 5, 6, 7, 8, 11, 12, 13, 14, 15, 16, 17, 18. A 5V source is connected to pin 18, and a 6V source is connected to pin 1.

The diagram illustrates the wiring for the DPAD and BTN components. Each button is connected to a GND pin and a corresponding pin on the component. The DPAD has five buttons (UP, DOWN, LEFT, RIGHT) and the BTN has five buttons (UP, DOWN, LEFT, RIGHT, START). The wiring is as follows:

- DPAD\_UP:** Pin 1 to GND, Pin 2 to DPAD\_UP.
- DPAD\_DOWN:** Pin 1 to GND, Pin 2 to DPAD\_DOWN.
- DPAD\_LEFT:** Pin 1 to GND, Pin 2 to DPAD\_LEFT.
- DPAD\_RIGHT:** Pin 1 to GND, Pin 2 to DPAD\_RIGHT.
- BTN\_UP:** Pin 1 to GND, Pin 2 to BTN\_UP.
- BTN\_DOWN:** Pin 1 to GND, Pin 2 to BTN\_DOWN.
- BTN\_LEFT:** Pin 1 to GND, Pin 2 to BTN\_LEFT.
- BTN\_RIGHT:** Pin 1 to GND, Pin 2 to BTN\_RIGHT.
- BTN\_START:** Pin 1 to GND, Pin 2 to BTN\_START.
- BTN\_SLCT:** Pin 1 to GND, Pin 2 to BTN\_SLCT.

[illegible]

The diagram shows a 3V3 voltage source connected to two resistors, R5 (10k) and R6 (10k). R5 is connected to the I2C\_DA signal line, and R6 is connected to the I2C\_CLK signal line. This configuration provides pull-up for the I2C signals.

3V3

GND

I2C\_CLK

I2C\_DAT

CN1

5

4

3

2

1

6

SM04B-SRSS-TB (LF)(SN)

0 - 0x20/32

U9 MCP23008T-E/SS

3V3

I2C\_CLK 1 SCL 20 VDD 18 GP7 19 GP6 17 GP5 16 GP4 15 GP3 14 GP2 13 GP1 12 GP0

I2C\_DAT 2 SDA 19 VDD 18 GP7 19 GP6 17 GP5 16 GP4 15 GP3 14 GP2 13 GP1 12 GP0

MCP\_RST 4 A1 5 A0 6 RESET# 9 NC 10 INT 11 VSS 12 N/C

MCP1\_INT 9 NC 10 INT 11 VSS 12 N/C

DISPLAY\_RST 18 GP7 19 GP6 17 GP5 16 GP4 15 GP3 14 GP2 13 GP1 12 GP0

DISPLAY\_DC 19 GP6 18 GP7 17 GP5 16 GP4 15 GP3 14 GP2 13 GP1 12 GP0

DISPLAY\_CS 17 GP5 16 GP4 15 GP3 14 GP2 13 GP1 12 GP0

DPAD\_LEFT 16 GP4 15 GP3 14 GP2 13 GP1 12 GP0

DPAD\_DOWN 15 GP3 14 GP2 13 GP1 12 GP0

DPAD\_RIGHT 14 GP2 13 GP1 12 GP0

DPAD\_UP 13 GP1 12 GP0

GND

1 - 0x21/33

U11 MCP23008T-E/SS

3V3

I2C\_CLK 1 SCL 20 VDD 18 GP7 19 GP6 17 GP5 16 GP4 15 GP3 14 GP2 13 GP1 12 GP0

I2C\_DAT 2 SDA 19 VDD 18 GP7 19 GP6 17 GP5 16 GP4 15 GP3 14 GP2 13 GP1 12 GP0

MCP\_RST 4 A1 5 A0 6 RESET# 9 NC 10 INT 11 VSS 12 N/C

MCP2\_INT 9 NC 10 INT 11 VSS 12 N/C

BTN\_UP 18 GP7 19 GP6 17 GP5 16 GP4 15 GP3 14 GP2 13 GP1 12 GP0

BTN\_RIGHT 19 GP6 18 GP7 17 GP5 16 GP4 15 GP3 14 GP2 13 GP1 12 GP0

BTN\_DOWN 17 GP5 16 GP4 15 GP3 14 GP2 13 GP1 12 GP0

BTN\_LEFT 16 GP4 15 GP3 14 GP2 13 GP1 12 GP0

BTN\_START 15 GP3 14 GP2 13 GP1 12 GP0

BTN\_SLCT 14 GP2 13 GP1 12 GP0

GND

[illegible]

U8  
ILI9341 LCD TFT 3.2

3V3

1 VCC  
2 GND  
3 CS  
4 RST  
5 D/C  
6 MOSI  
7 SCK  
8 LED  
9 MISO

LCD

DISPLAY\_CS  
DISPLAY\_RST  
DISPLAY\_DC  
DISPLAY\_COPI  
DISPLAY\_CLK  
DISPLAY\_BKLT

10 T\_CLK  
11 T\_CS  
12 T\_DIN  
13 T\_DO  
14 T\_IRQ

TOUCH

ILI9341 3.2 Inch TFT v1

GND

### 3 - 0x26/38

TITLE: Juego		REV: v2.d
	Company: Wilderness Labs	Sheet: 1/1
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