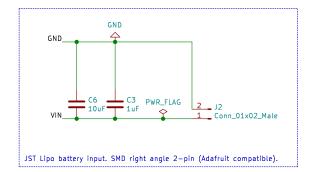


Driving SHDN low places the MCP1253 in a low-power shutdown mode. Pulling it high enables the chip. MCP1253-ADJI_MS **C**5 CFLY GND GND 3 VIN VIN VIN 7 <u>2</u> 3.3V VOUT 8 FB PGOOD R2 17K4 10K 100K 3.3٧ 3.30 GND R1 = R2 * [(VOUT/VFB)-1] VOUT = VFB(1+R1/R2) VFB = 1.21V Let R2 = 10K and VOUT = 3.3VR1 = $10K^*[(3.3/1.21) - 1] = 17.3K$ check 1.21(1+17.3K/10K) = 3.303

Adj 3.3V Regulated DC/DC converter



CSO to Pin16 Dedicated GPIO (Conventially used for SPI 'Chip Select')
CD to Pin10 GPIO shared with LED Col 3 of the LED screen; can be used for ADC and digital I/O when the LED screen is turned off.

WP to Pin9 GPIO shared with LED Col 7 of the LED screen; can be used for digital I/O when the LED screen is turned off. CS1 to Pin8 Dedicated GPIO, for sending and sensing digital signals.
hold to Pin7 GPIO shared with LED Col 8 of the LED screen; can be used for digital I/O when the LED screen is turned off.

> Sheet: / File: uBit_carrier.sch Title: Size: A4 Date: Rev: KiCad E.D.A. kicad (5.1.5)-3 ld: 1/1