MPU-6050

C5 10n
C4 0.1u
G_VCC
R16 10k
R17 10k
Ve
C2 2.2n
SDA
SCL
SCL 23
SDA 24
RESV
RESV
RESV
CPOUT
VLOGIC
REGOUT
FSYNC
INT
CLKIN 1
NC
NC
NC
NC
AUX_DA
AUX_CL
ADO
EP
C3 0.1u
INT
G_GND
Ve
G_GND
U3 MPU-6050_C24112
R22 0
G_GND GND

SD

Ve
C6 10u
GND
SD_CD
SD_MOSI
SD_CLK
GND
SD_MISO
DAT2
CD/DAT3
CMD
VDD
CLK
VSS
DAT0
DAT1
SW1
SW2
CARD1 SD-01A
GND

HEADER1

H2 22850108ANG1SYA01
5V+
GND
3V3
GND
3V3
GND
Ve
GND
R18 0 SDA
R19 0 SCL
R20 0 INT
5V
GND
3V3
GND
3V3
GND
GND
Ve
GND

H1 22850108ANG1SYA01

U2 2685Y-116CNG1SNA01
RST
0
1
2
3
18
19
20
21
26
48
47
33
34
35
36
37
SD_CLK R8 0 9
SD_MISO R9 0 10
SD_MOSI R10 0 11
SD_CD   R11 0 21

U1 2685Y-116CNG1SNA01
46
45
44
43
14
13
12
11
10
9
8
7
42
41
40
39
38

9:LoRa_SCK
10:LoRa_MOSI
11:LoRa_MISO

CHARGER

U6 TP4054_C668215
CHRG
GND
BAT
PROG
VCC
R15 2k
C8 1u
GND
BAT_+
C1 1u
GND
R14 120
GND
LED1 TZ-L2-05YYBO3TDJ15-001
5V+

BT1 BH-18650-B1BA002
BAT_+ GND

BAT+
BAT_+
1
2
B2B-PH-K-S(LF)(SN) BAT_SW

R4 10k
3V3
GND GND
SW2 SPPJ310500

HEADER2

+BAT
BAT+
1.25T-2PWT
GND

5V+
R1 510k
R6 510K
GND
GND

6
1
2
B2B-PH-K-S(LF)(SN) DIO2
GND

5
1
2
B2B-PH-K-S(LF)(SN) DIO1
GND

U4 DPS310XTSA1
R23 10k
R13 10k
Ve
Ve
GND
CSB
SDI
SCK
VDD
GND
VDDIO
SDO
SCL
SDA
C7 0.1uF
C9 0.1uF
DSP_GND
R7 0
GND DSP_GND

3COLOR LED

LED2 WS2812D-F8
BAT+
DOUT
VDD
DIN
GND
17
GND

BUZZER

BAT+
BUZ+
BUZZER BUZZER1
H3 HDR-F-2.54_1x3
BAT+
BAT+
BUZ-
1
2
3

R12 1k
BAT+
BUZ+
BUZ-
BUZZER BUZZER2
H4 HDR-F-2.54_1x3
BAT+
BAT+
BUZ-
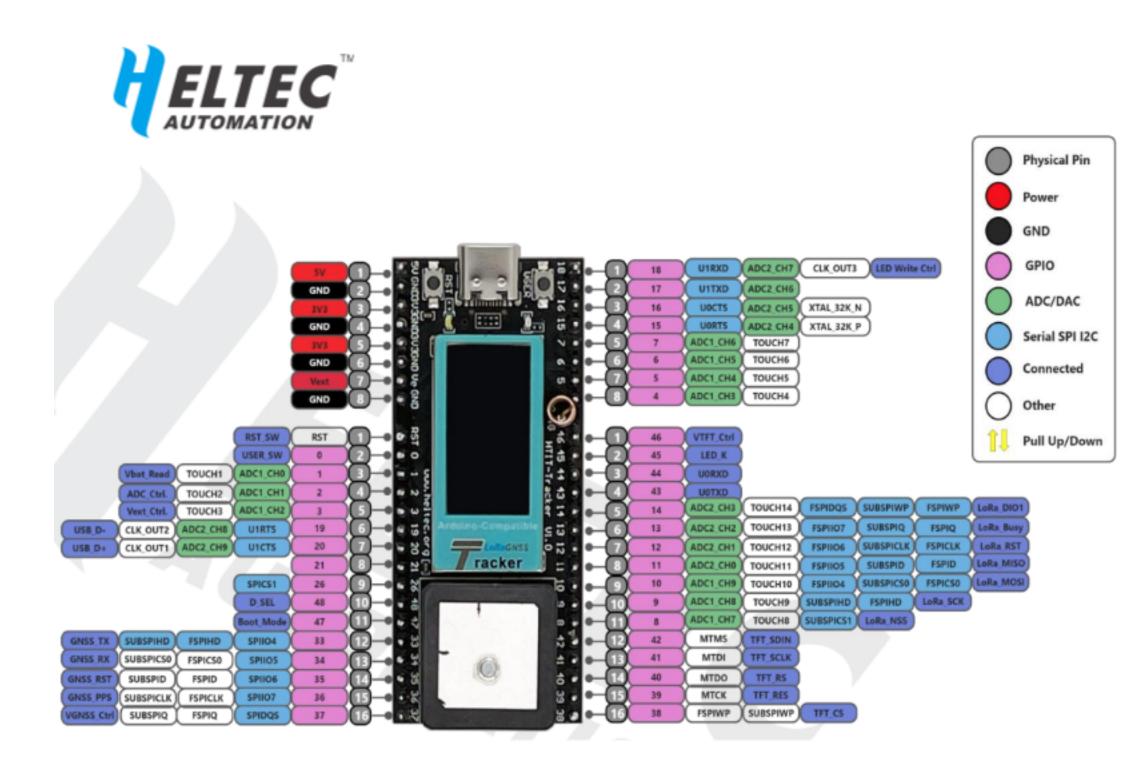1
2
3

46
R5 10k
Q6 AO3400A
GND

The DPS310 sensor's address is 0x77 (if SDO pin is left floating or pulled-up to VDDIO) or 0x76 (if the SDO pin is pulleddown to GND).

Wireless Tracker

HELTEC AUTOMATION

Physical Pin
Power
GND
GPIO
ADC/DAC
Serial SPI I2C
Connected
Other
Pull Up/Down