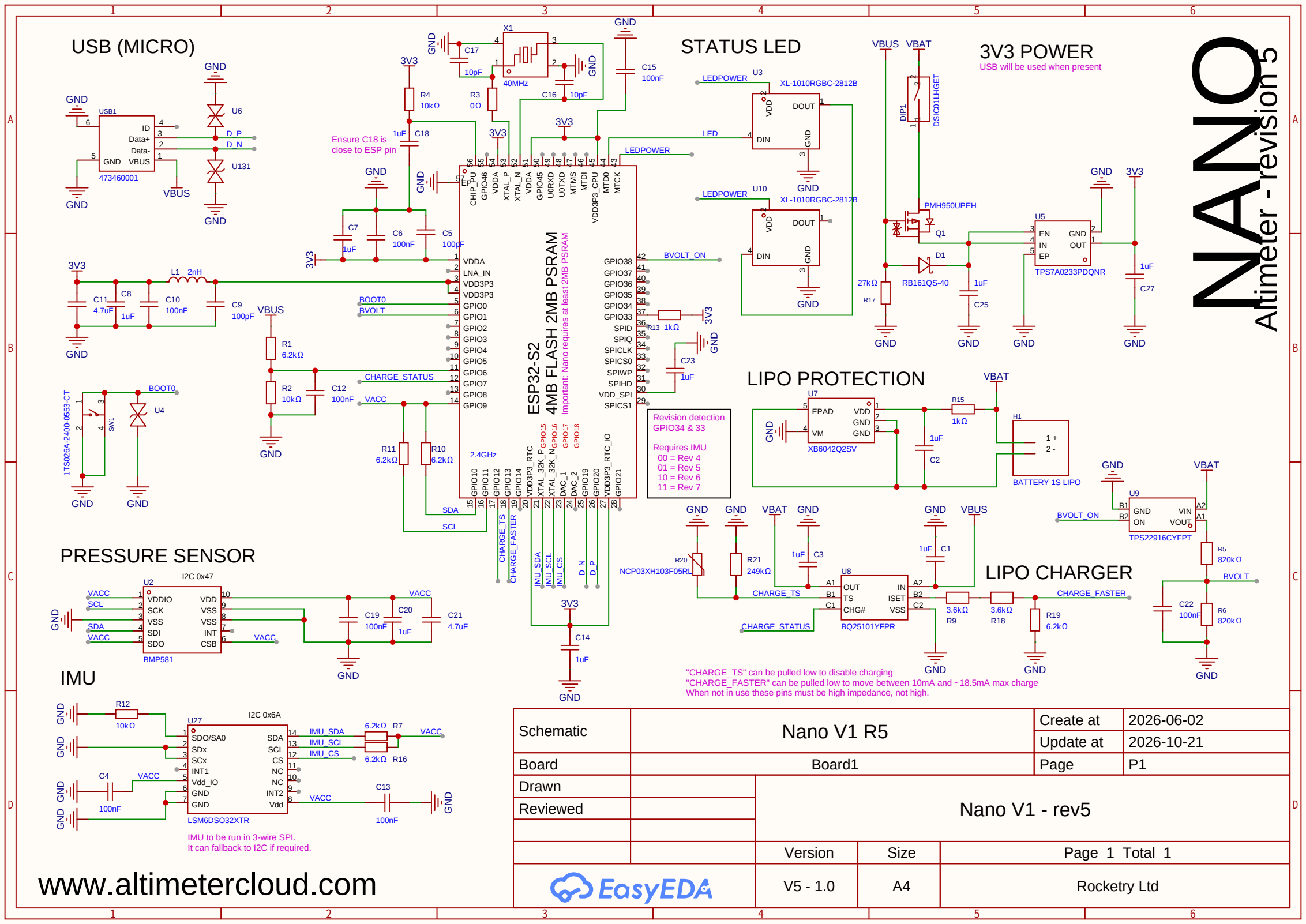

NANO
Altimeter - revision 5
USB (MICRO)
STATUS LED
3V3 POWER
USB will be used when present
ESP32-S2
4MB FLASH 2MB PSRAM
Important: Nano requires at least 2MB PSRAM
Ensure C18 is close to ESP pin
Revision detection
GPIO34 & 33
Requires IMU
00 = Rev 4
01 = Rev 5
10 = Rev 6
11 = Rev 7
LIPO PROTECTION
LIPO CHARGER
PRESSURE SENSOR
I2C 0x47
BMP581
IMU
I2C 0x6A
LSM6DSO32XTR
IMU to be run in 3-wire SPI.
It can fallback to I2C if required.
"CHARGE_TS" can be pulled low to disable charging
"CHARGE_FASTER" can be pulled low to move between 10mA and ~18.5mA max charge
When not in use these pins must be high impedance, not high.
www.altimetercloud.com
Schematic
Nano V1 R5
Create at
2026-06-02
Update at
2026-10-21
Board
Board1
Page
P1
Drawn
Reviewed
Nano V1 - rev5
Version
Size
Page 1 Total 1
EasyEDA
V5 - 1.0
A4
Rocketry Ltd