# Rhino - Power

Power board for delivering power from battery to MCU, GPS, LORA and sensors

## CONTENTS:

POWER.SchDoc - Power supply

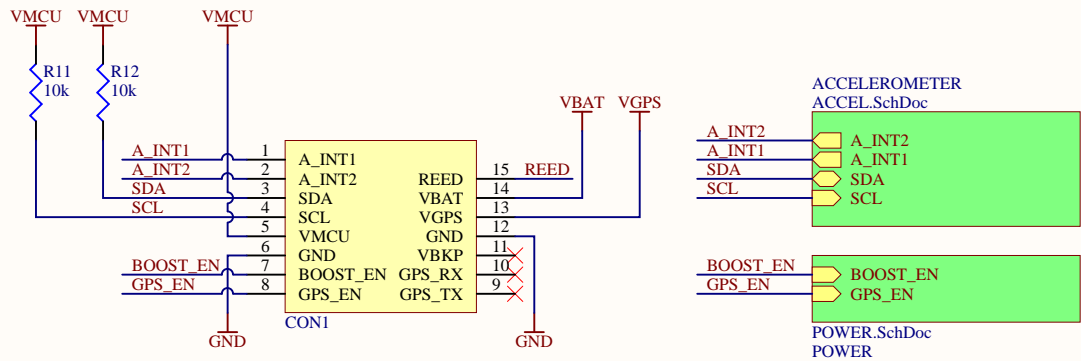ACCEL.SchDoc - Accelerometer

## Version Revision:

V1   - dd.mm.yyyy

## DIAGRAM



## DESIGN CONSIDERATIONS
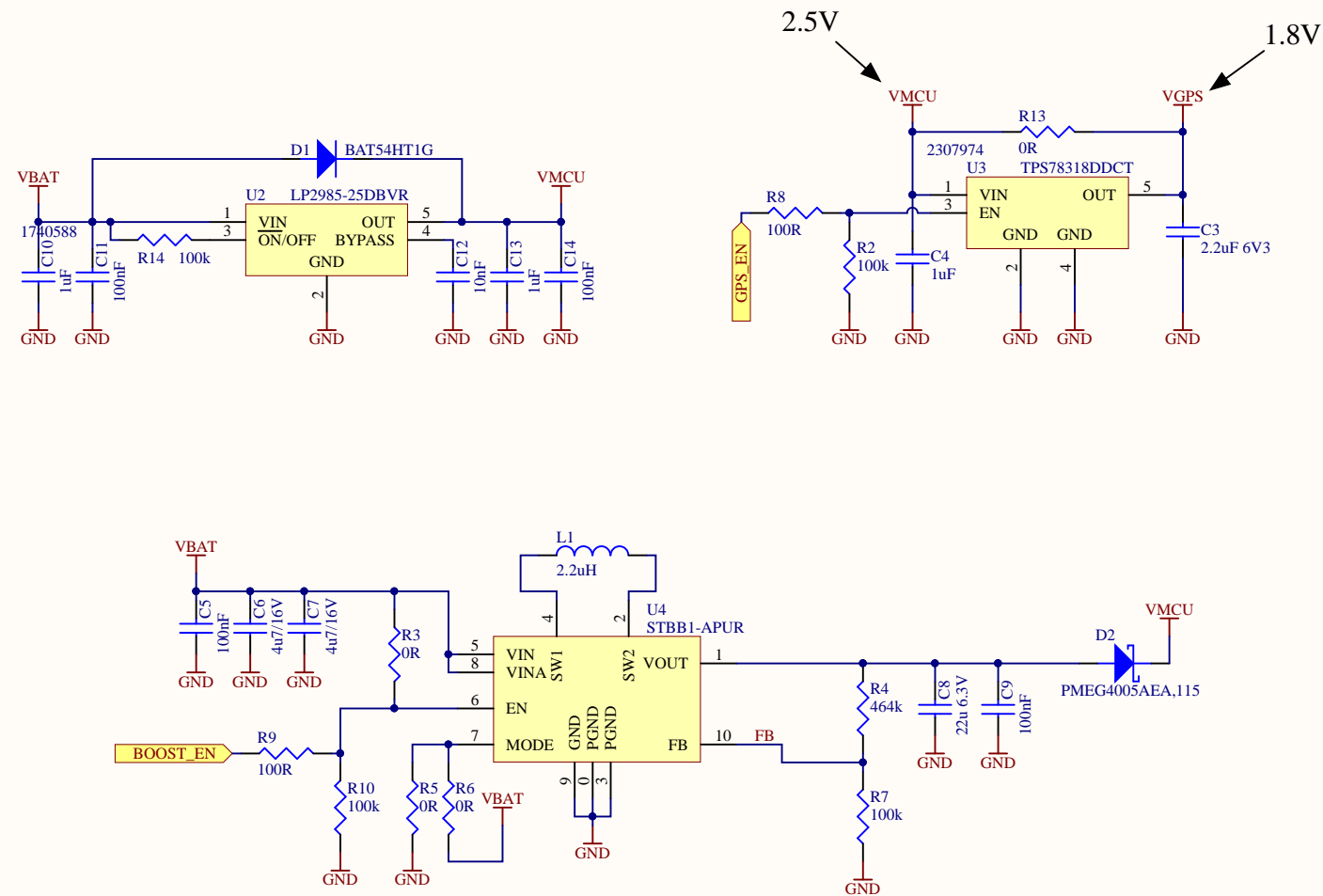
DESIGN NOTE:
Example text for informational design notes.

**DESIGN NOTE:**
**Example text for critical design notes.**

**LAYOUT NOTE:**
**Example text for critical layout guidelines.**

2.5V → VMCU

1.8V → VGPS

D1 BAT54HT1G

VBAT

U2 LP2985-25DBVR

VMCU

1740588

VIN OUT
ON/OFF BYPASS
GND

R14 100k

C10 1uF
C11 100nF
C12 10nF
C13 1uF
C14 100nF

GND GND GND GND GND GND

R13
0R
2307974
U3 TPS78318DDCT

GPS_EN

R8 100R

VIN OUT
EN
GND GND

R2 100k
C4 1uF
C3 2.2uF 6V3

GND GND GND GND GND

L1 2.2uH

VBAT

U4 STBB1-APUR

VMCU

C5 100nF
C6 4u7/16V
C7 4u7/16V

R3 0R

VIN SW1
VINA SW2 VOUT
EN
MODE GND PGND PGND FB

D2 PMEG4005AEA,115

R4 464k
C8 22u 6.3V
C9 100nF

GND GND GND GND

BOOST_EN

R9 100R

R10 100k

R5 0R R6 0R VBAT

GND GND GND

R7 100k

GND

FB

C1
10uF
C2
100nF

VMCU

GND

U1
9   VDD                    CS        2
10  VDDIO            SCL/SPC         1        SCL
                     SDO/SA0         3
7   RES          SDA/SDI/SDO        4        SDA
5   NC
6   GND              INT1           12       A_INT1
8   GND              INT2           11       A_INT2
LIS2DW12TR

GND                             GND

SCL

SDA

A_INT1

A_INT2

R1
10k

GND