Rhino - GPS

DIAGRAM

GPS IC ZOE-M8B with external LNA and passive antena
Additional as option are added light sensor and reed switch

CONTENTS:

GPS.SchDoc - ZOE-M8B module

SENSORS.SchDoc - Light sensor an reed switch
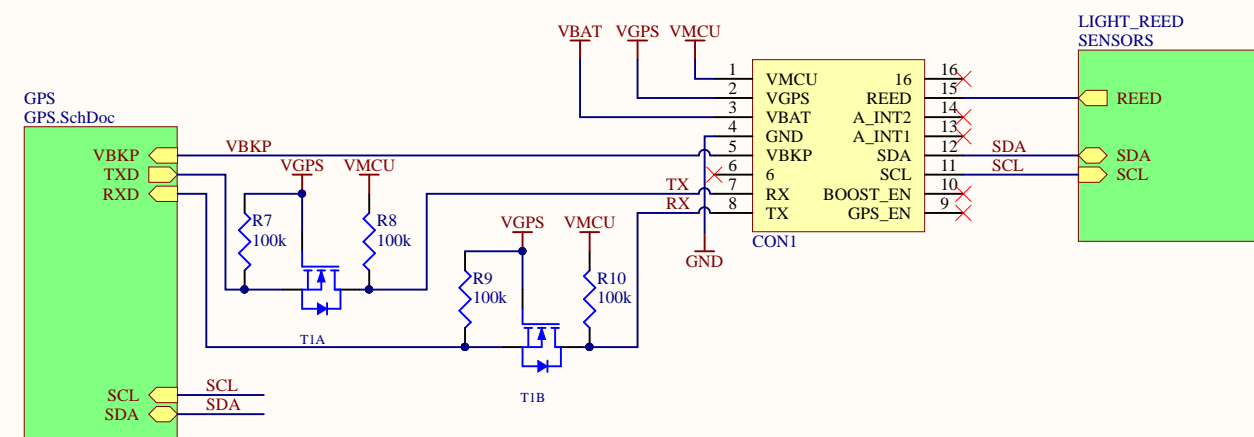
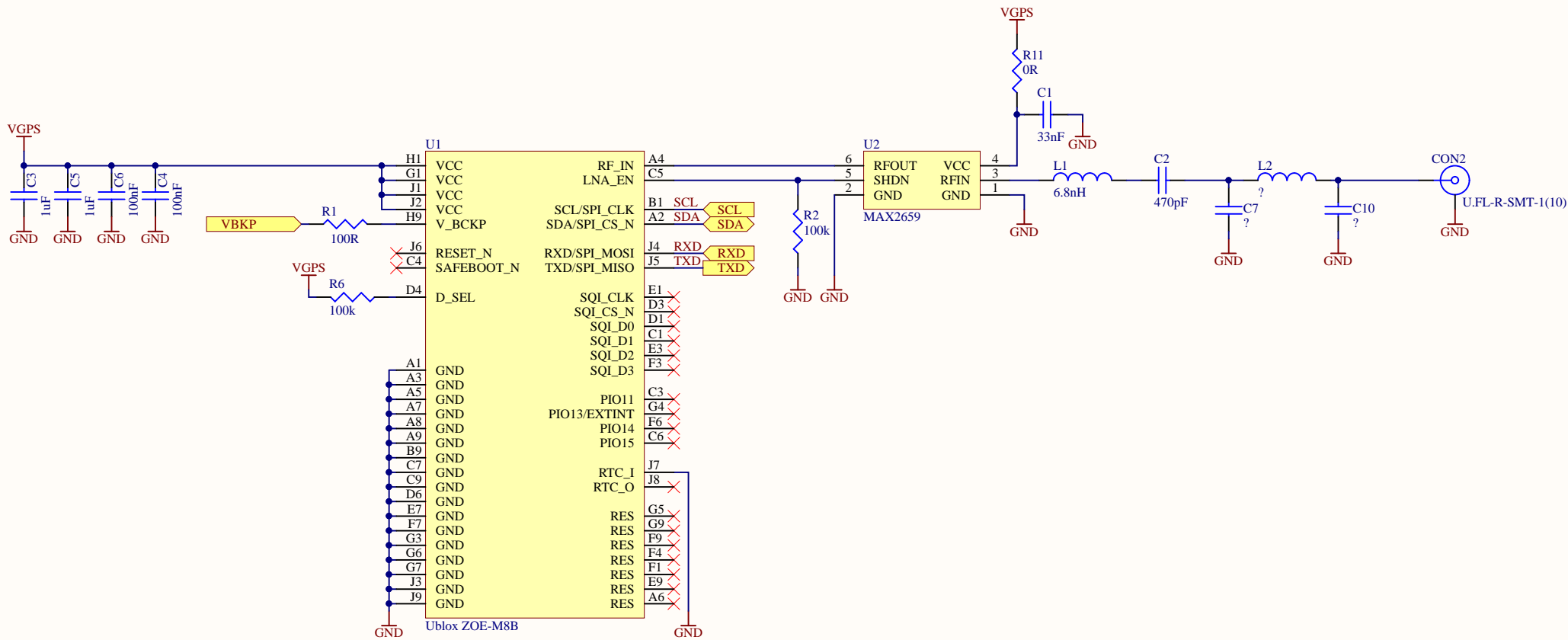## Version Revision:

V1 - dd.mm.yyyy

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.

IRNAS	URL	
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Size: A3		Revision: V1
*		Sheet 1 of 3

VGPS

C3 1uF C5 1uF C6 100nF C4 100nF
GND GND GND GND

VBKP R1 100R

VGPS R6 100k

U1
H1 VCC
G1 VCC
J1 VCC
J2 VCC
H9 V_BCKP
J6 RESET_N
C4 SAFEBOOT_N
D4 D_SEL

A1 GND
A3 GND
A5 GND
A7 GND
A8 GND
A9 GND
B9 GND
C7 GND
C9 GND
D6 GND
E7 GND
F7 GND
G3 GND
G6 GND
G7 GND
J3 GND
J9 GND
GND

Ublox ZOE-M8B

RF_IN A4
LNA_EN C5
SCL/SPI_CLK B1 SCL SCL
SDA/SPI_CS_N A2 SDA SDA
RXD/SPI_MOSI J4 RXD RXD
TXD/SPI_MISO J5 TXD TXD

SQI_CLK E1
SQI_CS_N D3
SQI_D0 D1
SQI_D1 C1
SQI_D2 E3
SQI_D3 F3

PIO11 C3
PIO13/EXTINT G4
PIO14 F6
PIO15 C6

RTC_I J7
RTC_O J8

RES G5
RES G9
RES F9
RES F4
RES F1
RES E9
RES A6
GND

R2 100k
GND GND

U2
6 RFOUT VCC 4
5 SHDN   RFIN 3
2 GND   GND 1
MAX2659
GND

VGPS
R11 0R
C1 33nF
GND

L1 6.8nH
C2 470pF
L2 ?
C7 ? C10 ?
GND GND

CON2
U.FL-R-SMT-1(10)
GND

IRNAS   URL
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Size: A3   Revision: V1
*   Sheet 2 of 3
irnas
www.irnas.eu

VMCU

U3

C8
1uF

C9
100nF

1   VDD

2   GND

GND

SCL   4   SCL
SDA   5   SDA
INT   6
ADDR_SEL   3

APDS-9300-020

SCL
SDA

VMCU

R4
0R

R5
0R

GND

VMCU

2

S?
RI-70GP0715

1

REED

R3
100k

GND