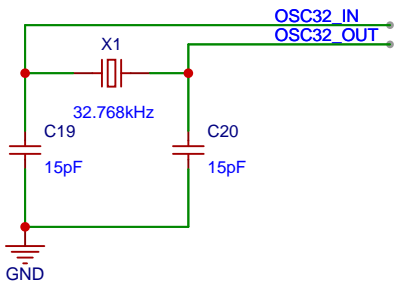


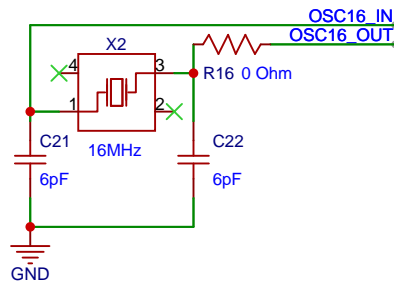
LSE Crystal

Assume 5pF stray capacitance
 $12.5 = 15 \cdot 15 / 30 + 5$

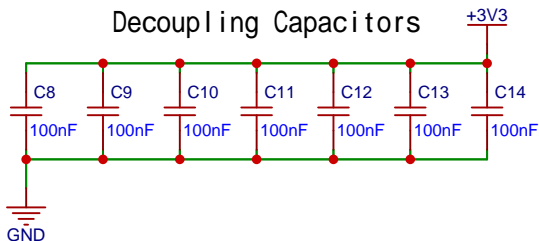


HSE Crystal

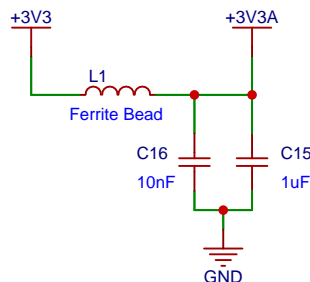
Assume 5pF stray capacitance
 $8 = 6 \cdot 6 / 12 + 5$
Replace 0 ohm if needed



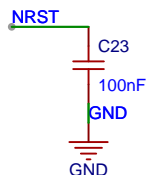
Decoupling Capacitors



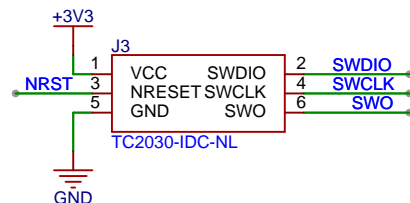
VDDA Filtering



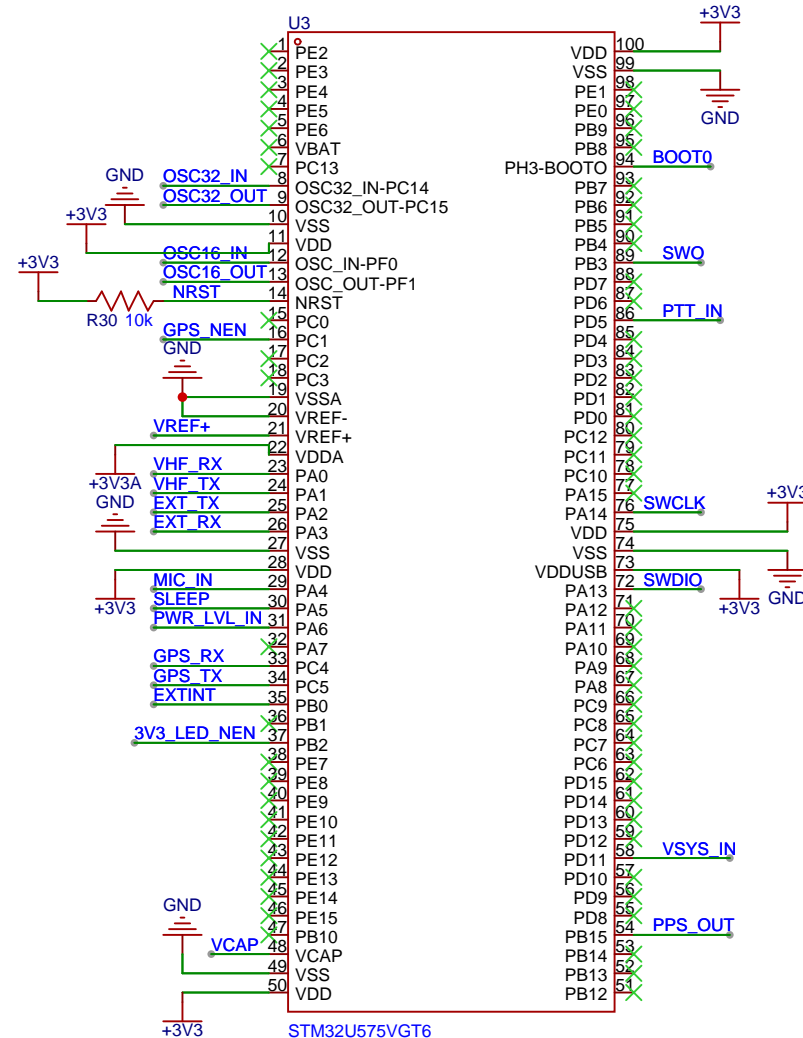
Reset



Debug Header



STM32 MCU



Schematic

Schematic

Update Date	2024-03-12
Create Date	2024-01-31
Part Number	JLPCB-002

Page

MCU

Drawn

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Reviewed

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RecoveryBoard_W24Edits_ACTIVE

VER

V2.3

SIZE

A4

PAGE

1

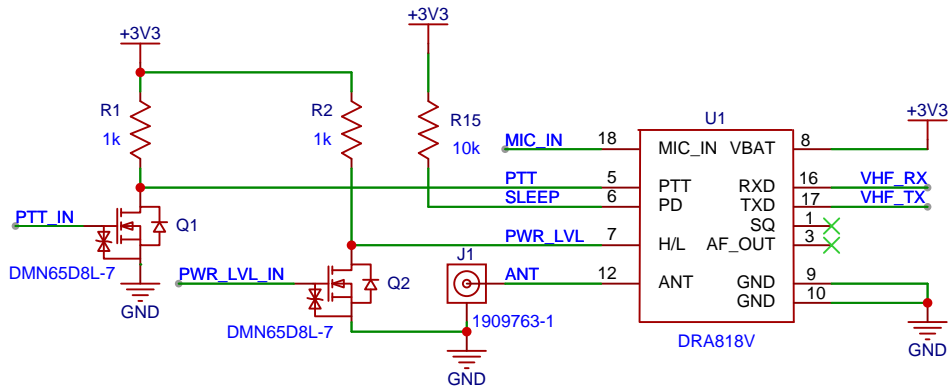
OF

3

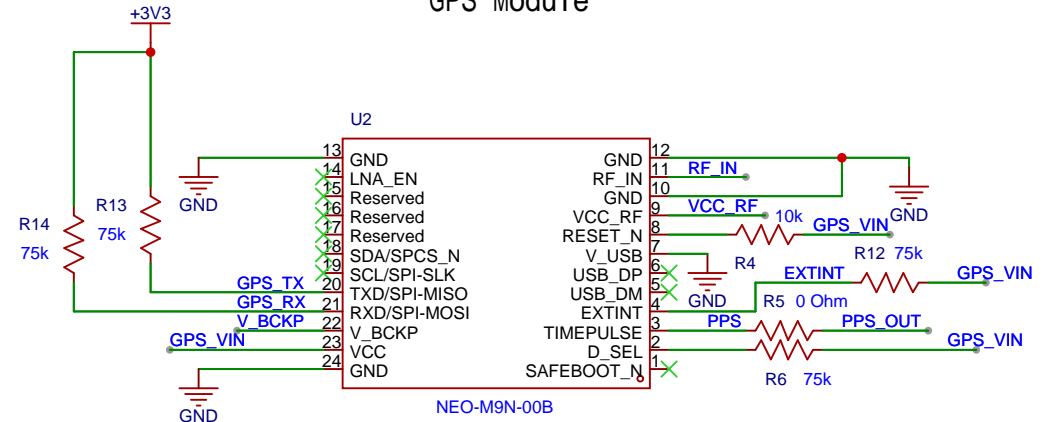
EasyEDA.com



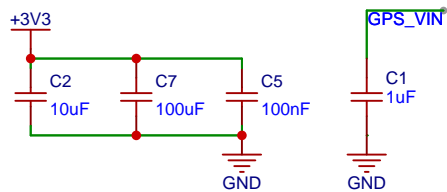
VHF Transceiver



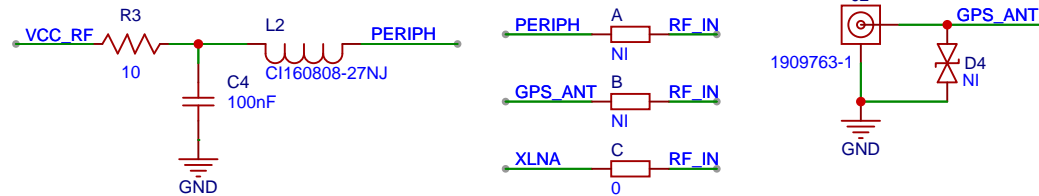
GPS Module



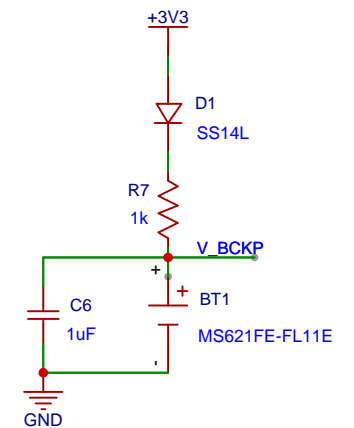
Decoupling Capacitors



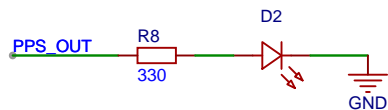
GPS Antenna



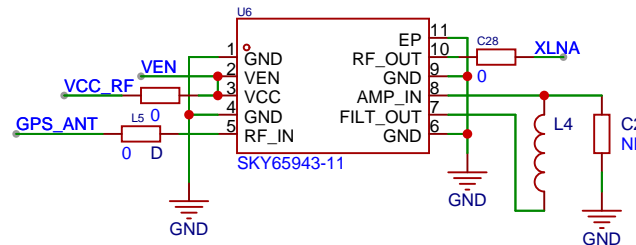
Back-up Battery



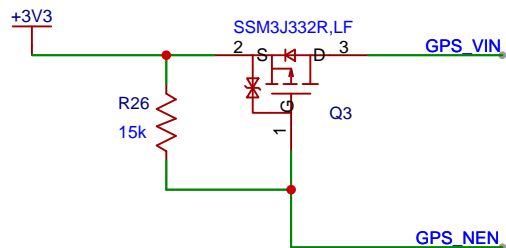
Timepulse LED



External LNA



GPS Power Switch



Schematic

Schematic

Update Date

2024-04-04

Page

Recovery

Create Date

2024-01-31

Drawn

EasyEDA Pro

Part Number

JLPCB-002

Reviewed

EasyEDA Pro

RecoveryBoard_W24Edits_ACTIVE

VER

SIZE

PAGE

2

OF

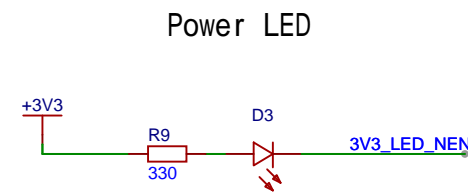
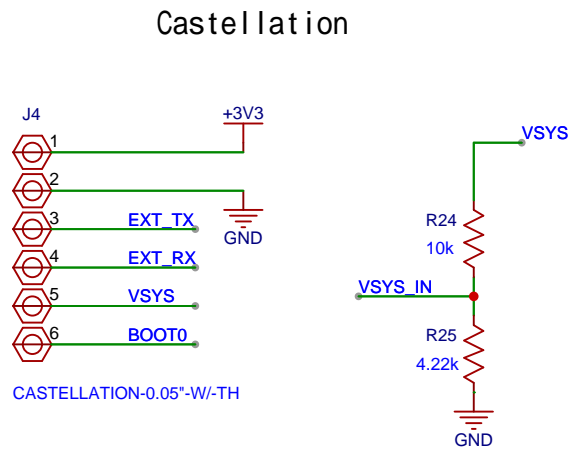
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EasyEDA

V2.3

A4

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Schematic	Schematic			Update Date	2024-02-20
				Create Date	2024-01-31
Page	Power			Part Number	JLPCB-002
Drawn	EasyEDA Pro	RecoveryBoard_W24Edits_ACTIVE			
Reviewed	EasyEDA Pro				
		VER	SIZE	PAGE	3 OF 3
EasyEDA		V2.3	A4	EasyEDA.com	