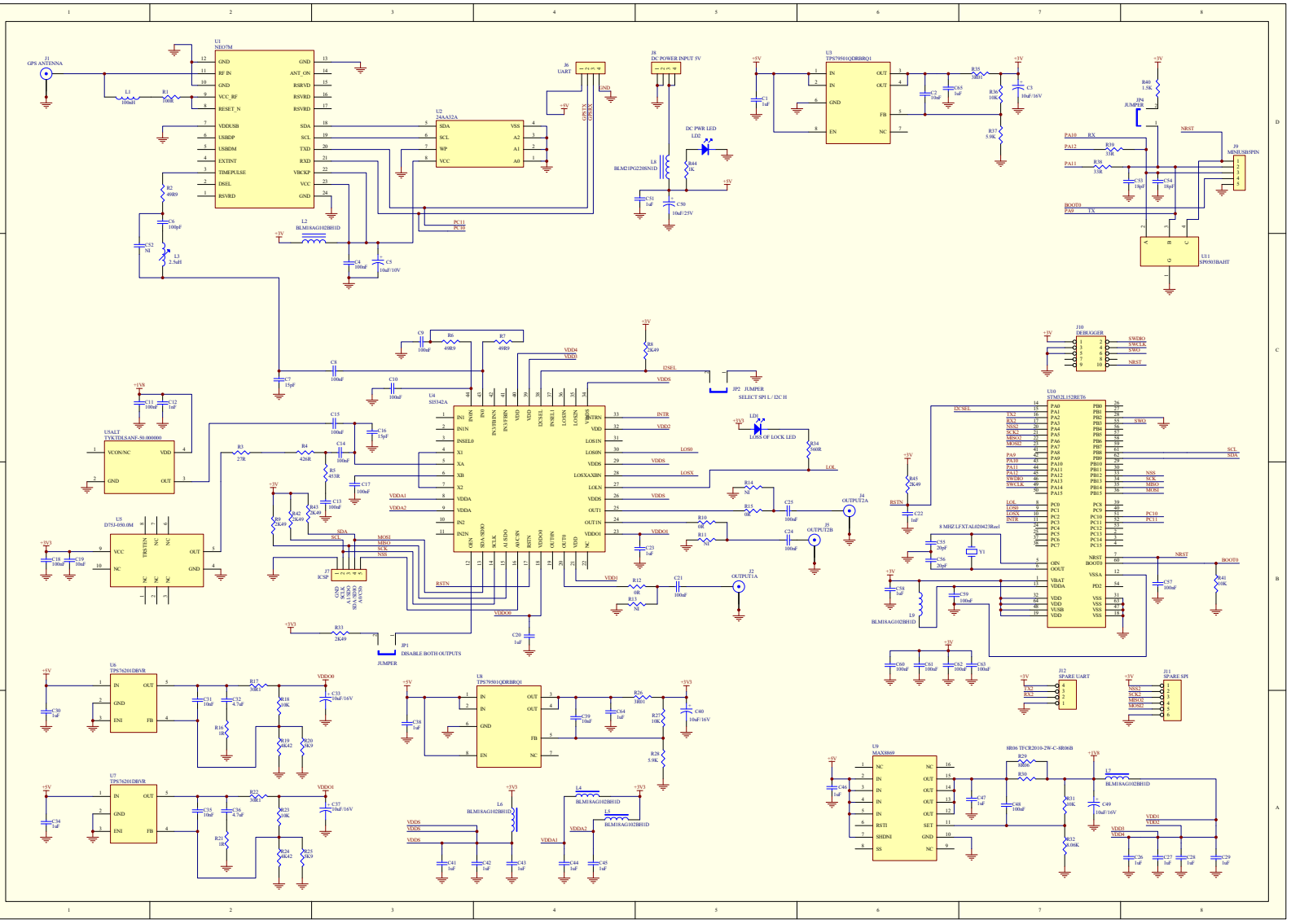
J1
GPS ANTENNA
U1
NEO7M
GND
RF IN
GND
VCC_RF
RESET_N
VDDUSB
USBDP
USBDM
EXTINT
TIMEPULSE
DSEL
RSVRD
ANT_ON
RSRVD
RSRVD
RSRVD
SDA
SCL
TXD
RXD
VBCKP
VCC
GND
L1
10nH
R1
10R
R2
49R9
C6
100nF
C52
Nl
L3
2.5uH
U2
24AA32A
SDA
SCL
WP
VCC
VSS
A2
A1
A0
J6
UART
GND
+5V
GPS TX
GPS RX
PC11
PC10
L2
BLM18AG102BH1D
C4
100nF
C5
10uF/10V
J8
DC POWER INPUT 5V
DC PWR LED
LD2
L8
BLM21PG220SN1D
R44
6K
C51
1uF
C50
10uF/25V
U3
TPS79501QDRBRQ1
IN
IN
GND
EN
OUT
OUT
FB
NC
C1
1uF
C2
10uF
C65
1uF
R35
38R1
R36
10K
R37
5.9K
C3
10uF/16V
R40
1.8K
JP4
JUMPER
NRST
J9
MINIUSB5PIN
PA10
RX
PA12
R39
33R
PA11
R38
33R
C53
15pF
C54
15pF
BOOT0
PA9
TX
U11
SP0503BAHT
C7
15pF
C8
100nF
C9
100nF
R6
49R9
R7
49R9
C10
100nF
U4
SI5342A
IN0P
IN0N
IN1N
INSEL0
X1
XA
XB
X2
VDDA
VDDA
IN2N
GEN
SDA/SDIO
SCLK
A1/SDO
A0/CSN
RSTN
VDDIO0
OUTPIN
OUT0
VDD
NC
VDD
VDD
INSEL2
INSEL1
LOSIN
LOSIN
VDDS
LOSXAXBN
LOLN
VDDS
OUT1
OUT1N
VDDO1
INTRN
VDD
LOSIN
LOSIN
VDDS
LOSXAXBN
LOLN
VDDS
OUT1
OUT1N
VDDO1
VDD4
VDD
VDDA1
VDDA2
SDA
SCL
MOSI
MISO
SCK
NSS
RSTN
VDDIO0
VDD1
VDDS
LOS0
LOSX
LOL
INTR
VDD2
VDDO1
R8
2K49
I2SEL
JP2 JUMPER
SELECT SPI L / I2C H
LD1
LOSS OF LOCK LED
R34
560R
R14
Nl
R13
0R
C25
100nF
J4
OUTPUT2A
R10
0R
R11
Nl
C24
100nF
J5
OUTPUT2B
C23
1uF
R12
0R
R13
Nl
C21
100nF
J2
OUTPUT1A
C20
1uF
R33
2K49
JP1
DISABLE BOTH OUTPUTS
JUMPER
U5ALT
TYKTDLSANF-50.000000
VCON/NC
GND
VDD
OUT
C11
100nF
C12
1uF
C15
100nF
C16
15pF
R3
27R
R4
426R
C14
100nF
R5
453R
C17
100nF
R9
2K49
R42
2K49
R43
2K49
C13
100nF
U5
DT54-050.0M
VCC
NC
TRSTEN
NC
NC
OUT
GND
NC
NC
NC
NC
C18
100nF
C19
10nF
J3
ICSP
GND
SCK
SDA
VCC
GND
SCK
SDA
VCC
C8
100nF
C10
100nF
C7
15pF
U10
STM32L152RET6
PA0
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA8
PA9
PA10
PA11
PA12
PA13
PA14
PA15
PC0
PC1
PC2
PC3
PC4
PC5
PC6
PC7
OSCIN
OSCOUT
VBAT
VDDA
VDD
VDD
VDD
VDD
VLCD
VDD
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PB8
PB9
PB10
PB11
PB12
PB13
PB14
PB15
PC9
PC8
PC10
PC11
PC12
PD2
NRST
BOOT0
VSSA
VSS
VSS
VSS
VSS
VSS
VSS
I2CSEL
TX2
RX2
NSS2
SCK2
MISO2
MOSI2
SWDIO
SWCLK
LOL
LOS0
LOSX
INTR
SCL
SDA
NSS
SCK
MISO
MOSI
PC10
PC11
NRST
BOOT0
J10
DEBUGGER
SWDIO
SWCLK
SWO
NRST
R45
2K49
RSTN
C22
1uF
8 MHZ LFXTALI039423Rev1
V1
C55
20pF
C56
20pF
C58
1uF
C59
100nF
L9
BLM18AG102BH1D
C60
100nF
C61
100nF
C62
100nF
C63
100nF
C57
100nF
R41
10K
J12
SPARE UART
TX2
RX2
J11
SPARE SPI
NSS2
SCK2
MISO2
MOSI2
U6
TPS76201DBVR
IN
GND
ENI
OUT
FB
C30
1uF
C31
10nF
C32
4.7uF
R17
38R1
R18
10K
R16
1R
R19
6K42
R20
3K9
C33
10uF/16V
VDDO0
U7
TPS76201DBVR
IN
GND
ENI
OUT
FB
C34
1uF
C35
10nF
C36
4.7uF
R22
38R1
R23
10K
R21
1R
R24
6K42
R25
3K9
C37
10uF/16V
VDDO1
U8
TPS79501QDRBRQ1
IN
IN
GND
EN
OUT
OUT
FB
NC
C38
1uF
C39
10nF
C64
1uF
R26
38R1
R27
10K
R28
5.9K
C40
10uF/16V
L6
BLM18AG102BH1D
VDDS
VDDS
VDDS
C41
1uF
C42
1uF
C43
1uF
L4
BLM18AG102BH1D
L5
BLM18AG102BH1D
VDDA2
VDDA1
C44
1uF
C45
1uF
U9
MAX8869
NC
IN
IN
IN
IN
RSTI
SHDNI
SS
NC
OUT
OUT
OUT
OUT
SET
GND
NC
C46
1uF
C47
1uF
R29
8R06
R30
8R06
TFCR2010-2W-C-8R06B
C48
100nF
R31
10K
R32
6.04K
L7
BLM18AG102BH1D
C49
10nF/16V
VDD1
VDD2
VDD3
VDD4
C26
1uF
C27
1uF
C28
1uF
C29
1uF