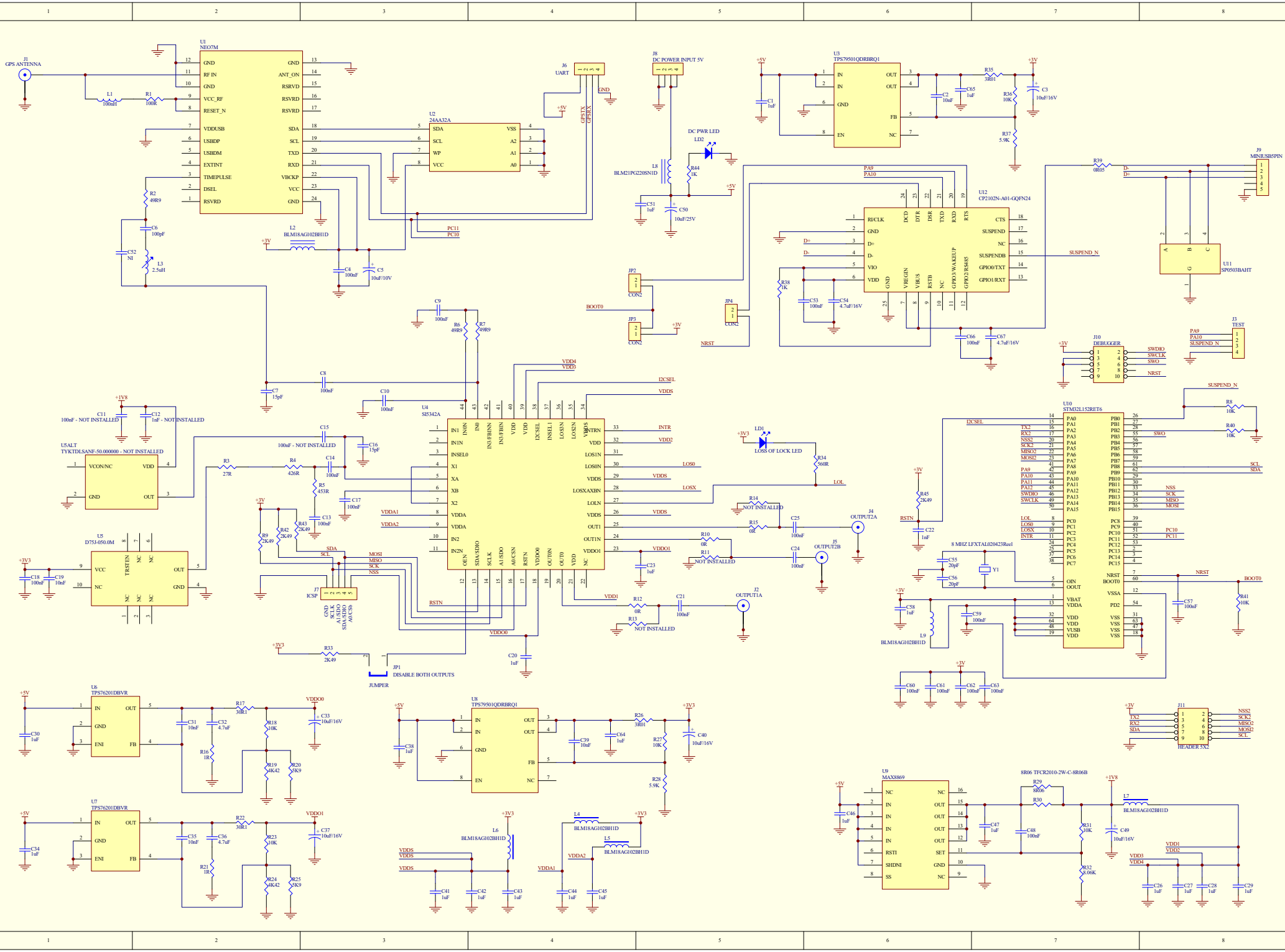
J1
GPS ANTENNA
U1
NEO7M
GND
RF IN
GND
VCC_RF
RESET_N
VDDUSB
USBDP
USBDM
EXTINT
TIMEPULSE
DSEL
RSVRD
GND
ANT_ON
RSVRD
RSVRD
RSVRD
SDA
SCL
TXD
RXD
VBCKP
VCC
GND
L1
100nH
R1
100R
R2
49R9
C6
100pF
C52
NI
L3
2.5uH
L2
BLM18AG102BH1D
C4
100nF
C5
10uF/10V
PC11
PC10
J6
UART
GPSTX
GPSRX
GND
U2
24AA32A
SDA
SCL
WP
VCC
VSS
A2
A1
A0
J8
DC POWER INPUT 5V
L8
BLM21PG220SN1D
DC PWR LED
LD2
R44
1K
C51
1uF
C50
10uF/25V
U3
TPS79501QDRBRQ1
IN
IN
GND
EN
OUT
OUT
FB
NC
C1
1uF
C2
10nF
C65
1uF
R35
3R01
R36
10K
C3
10uF/16V
R37
5.9K
+5V
+3V
PA9
PA10
U12
CP2102N-A01-GQFN24
RI/CLK
GND
D+
D-
VIO
VDD
DCD
DTR
DSR
TXD
RXD
RTS
CTS
SUSPEND
NC
SUSPENDB
GPIO0/TXT
GPIO1/RXT
GPIO3/WAKEUP
GPIO2/RS485
VREGIN
VBUS
RSTB
NC
GND
SUSPEND_N
R38
1K
C53
100nF
C54
4.7uF/16V
C66
100nF
C67
4.7uF/16V
R39
0R05
D-
D+
J9
MINIUSB5PIN
U11
SP0503BAHT
JP2
CON2
JP3
CON2
JP4
CON2
BOOT0
NRST
C9
100nF
R6
49R9
R7
49R9
C8
100nF
C7
15pF
C10
100nF
VDD4
VDD3
I2CSEL
VDDS
U4
SI5342A
INTR
VDD2
LOS1N
LOS1N
LOS0
VDDS
LOSX
LOSXAXBN
LOLN
VDDS
OUT1
OUT1N
VDDO1
VDD1
VDDA1
VDDA2
RSTN
SDA
SCL
MOSI
MISO
SCK
NSS
VDDO0
C11
100nF - NOT INSTALLED
C12
1nF - NOT INSTALLED
U5ALT
TYKTDLSANF-50.000000 - NOT INSTALLED
VCON/NC
GND
VDD
OUT
C15
100nF - NOT INSTALLED
C16
15pF
R3
27R
R4
426R
C14
100nF
R5
453R
C17
100nF
U5
D75J-050.0M
VCC
NC
TRSTN
NC
NC
OUT
GND
NC
NC
NC
NC
C18
100nF
C19
10nF
R9
2K49
R42
2K49
R43
2K49
C13
100nF
J7
ICSP
GND
SCLK
A1/SDO
SDA/SDIO
A0/CSb
R33
2K49
JP1
DISABLE BOTH OUTPUTS
JUMPER
LD1
LOSS OF LOCK LED
R34
560R
LOL
R14
NOT INSTALLED
R15
0R
C25
100nF
J4
OUTPUT2A
R10
0R
R11
NOT INSTALLED
C24
100nF
J5
OUTPUT2B
C23
1uF
R12
0R
R13
NOT INSTALLED
C21
100nF
J2
OUTPUT1A
C20
1uF
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
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PB8
PB9
PB10
PB11
PB12
PB13
PB14
PB15
PC8
PC9
PC10
PC11
PC12
PD2
NRST
BOOT0
OSCIN
OSCOUT
VBAT
VDDA
VSSA
VDD
VDD
VDD
VUSB
VSS
VSS
VSS
VSS
I2CSEL
TX2
RX2
NSS2
SCK2
MISO2
MOSI2
SWDIO
SWCLK
LOL
LOS0
LOSX
INTR
SUSPEND_N
R8
10K
R40
10K
SWO
SCL
SDA
NSS
SCK
MISO
MOSI
PC10
PC11
NRST
BOOT0
R41
10K
C57
100nF
R45
2K49
C22
1nF
RSTN
8 MHZ LFXTAL020423Reel
Y1
C55
20pF
C56
20pF
C58
1uF
L9
BLM18AG102BH1D
C59
100nF
C60
100nF
C61
100nF
C62
100nF
C63
100nF
J10
DEBUGGER
SWDIO
SWCLK
SWO
NRST
J3
TEST
PA9
PA10
SUSPEND_N
U6
TPS76201DBVR
IN
GND
ENI
OUT
FB
C30
1uF
C31
10nF
C32
4.7uF
R17
30R1
R18
10K
R16
1R
R19
4K42
R20
5K9
C33
10uF/16V
VDDO0
U7
TPS76201DBVR
C34
1uF
C35
10nF
C36
4.7uF
R22
30R1
R23
10K
R21
1R
R24
4K42
R25
5K9
C37
10uF/16V
VDDO1
U8
TPS79501QDRBRQ1
C38
1uF
C39
10nF
C64
1uF
R26
3R01
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
8R06 TFCR2010-2W-C-8R06B
R29
8R06
R30
C48
100nF
R31
10K
R32
8.06K
L7
BLM18AG102BH1D
C49
10uF/16V
VDD1
VDD2
VDD3
VDD4
C26
1uF
C27
1uF
C28
1uF
C29
1uF
J11
HEADER 5X2
TX2
RX2
SDA
NSS2
SCK2
MISO2
MOSI2
SCL