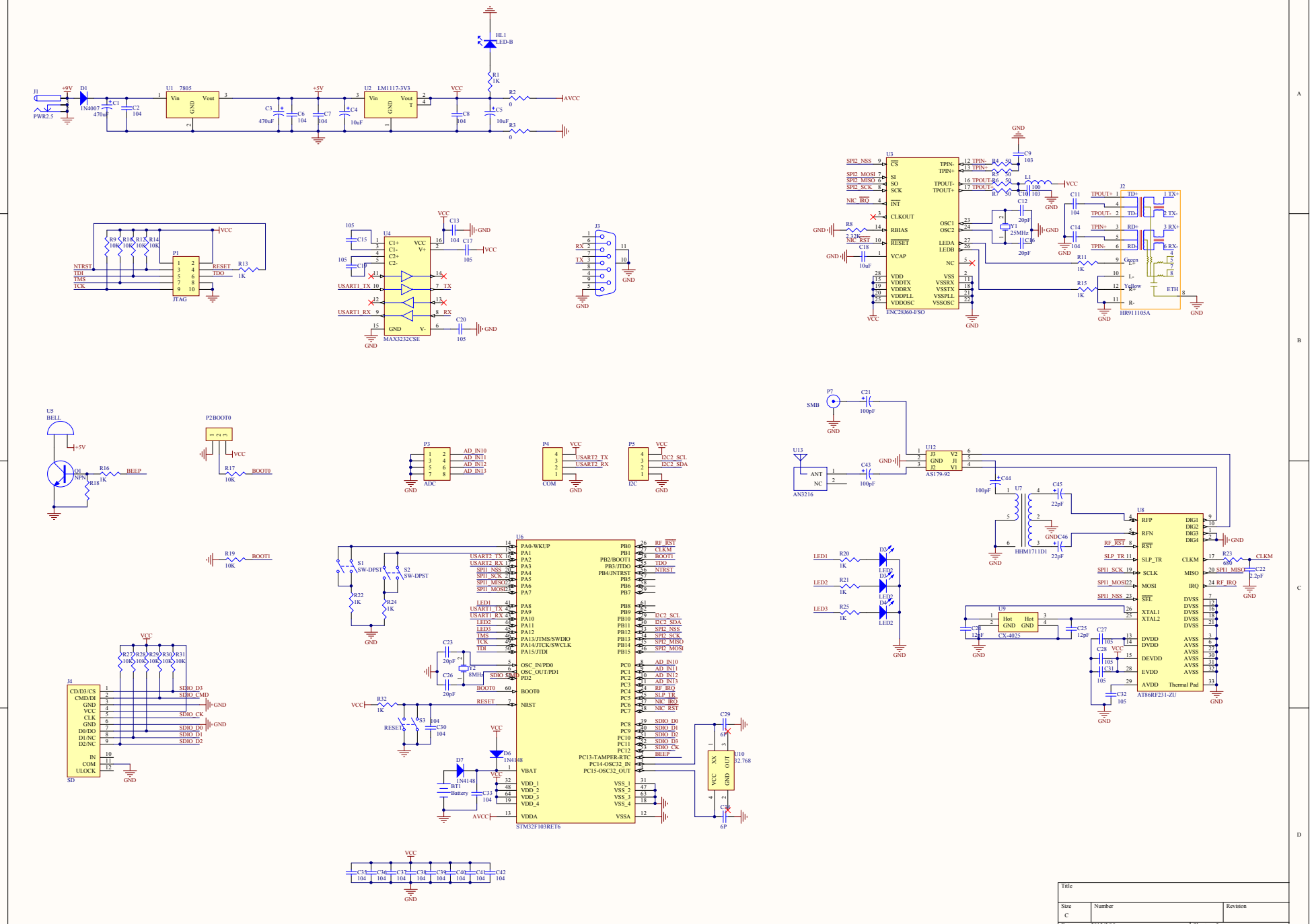
J1
PWR2.5
+9V
D1
1N4007
C1
470uF
C2
104
U1 7805
Vin
Vout
GND
C3
470uF
C6
104
+5V
C7
104
C4
10uF
U2 LM1117-3V3
Vin
Vout
GND
T
VCC
C8
104
C5
10uF
R2
0
AVCC
R3
0
HL1
LED-B
R1
1K
U3
ENC28J60-I/SO
SPI2_NSS
SPI2_MOSI
SPI2_MISO
SPI2_SCK
NIC_IRQ
NIC_RST
CS
SI
SO
SCK
INT
CLKOUT
RBIAS
RESET
VCAP
VDD
VDDTX
VDDRX
VDDPLL
VDDOSC
TPIN-
TPIN+
TPOUT-
TPOUT+
OSC1
OSC2
LEDA
LEDB
NC
VSS
VSSRX
VSSTX
VSSPLL
VSSOSC
R4 50
R5 50
R6 50
R7 50
L1
100
C10 103
C9
103
C12
20pF
Y1
25MHz
C16
20pF
R8
2.32K
C18
10uF
C11
104
C14
104
J2
HR911105A
TD+
TD-
RD+
RD-
Green
Yellow
L-
L+
R+
R-
ETH
R11
1K
R15
1K
P1
JTAG
NTRST
TDI
TMS
TCK
RESET
TDO
R9 10K
R10 10K
R12 10K
R14 10K
R13
1K
U4
MAX3232CSE
C1+
C1-
C2+
C2-
VCC
V+
GND
V-
USART1_TX
USART1_RX
TX
RX
C13
104
C17
105
C15
105
C19
105
C20
105
J3
RX
TX
U5
BELL
+5V
Q1
NPN
R16
1K
R18
BEEP
P2BOOT0
R17
10K
BOOT0
R19
10K
BOOT1
P3
ADC
AD_IN10
AD_IN11
AD_IN12
AD_IN13
P4
COM
USART2_TX
USART2_RX
P5
I2C
I2C2_SCL
I2C2_SDA
P7
SMB
C21
100pF
U13
AN3216
ANT
NC
C43
100pF
U12
AS179-92
J3
GND
J1
V2
V1
C44
100pF
U7
HHM1711D1
C45
22pF
C46
22pF
U8
AT86RF231-ZU
RFP
RFN
RST
SLP_TR
SCLK
MOSI
SEL
XTAL1
XTAL2
DVDD
DEVDD
EVDD
AVDD
DIG1
DIG2
DIG3
DIG4
CLKM
MISO
IRQ
DVSS
AVSS
Thermal Pad
RF_RST
SPI1_SCK
SPI1_MOSI
SPI1_NSS
SPI1_MISO
RF_IRQ
R23
680
C22
2.2pF
U9
CX-4025
Hot
GND
C26
12pF
C25
12pF
C27
105
C28
105
C31
105
C32
105
LED1
LED2
LED3
R20
1K
R21
1K
R25
1K
D2
D3
D4
U6
STM32F103RET6
PA0-WKUP
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA8
PA9
PA10
PA11
PA12
PA13/JTMS/SWDIO
PA14/JTCK/SWCLK
PA15/JTDI
PB0
PB1
PB2/BOOT1
PB3/JTDO
PB4/JNTRST
PB5
PB6
PB7
PB8
PB9
PB10
PB11
PB12
PB13
PB14
PB15
PC0
PC1
PC2
PC3
PC4
PC5
PC6
PC7
PC8
PC9
PC10
PC11
PC12
PC13-TAMPER-RTC
PC14-OSC32_IN
PC15-OSC32_OUT
OSC_IN/PD0
OSC_OUT/PD1
PD2
BOOT0
NRST
VBAT
VDD_1
VDD_2
VDD_3
VDD_4
VSS_1
VSS_2
VSS_3
VSS_4
VDDA
VSSA
USART2_TX
USART2_RX
SPI1_NSS
SPI1_SCK
SPI1_MISO
SPI1_MOSI
LED1
LED2
LED3
TMS
TCK
TDI
SDIO_D0
SDIO_D1
SDIO_D2
SDIO_D3
SDIO_CK
SDIO_CMD
AD_IN10
AD_IN11
AD_IN12
AD_IN13
RF_IRQ
SLP_TR
NIC_IRQ
NIC_RST
BEEP
RESET
S1
SW-DPST
S2
SW-DPST
R22
1K
R24
1K
C23
20pF
C26
20pF
Y2
8MHz
R32
1K
S3
RESET
C30
104
D6
1N4148
D7
1N4148
BT1
Battery
C33
104
C29
6P
C30
6P
U10
32.768
XX
VCC
OUT
GND
J4
SD
CD/D3/CS
CMD/DI
GND
VCC
CLK
GND
D0/D3
D1/NC
D2/NC
IN
COM
ULOCK
R27 10K
R28 10K
R29 10K
R30 10K
R31 10K
C34 104
C36 104
C37 104
C38 104
C39 104
C40 104
C41 104
C42 104
Title
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