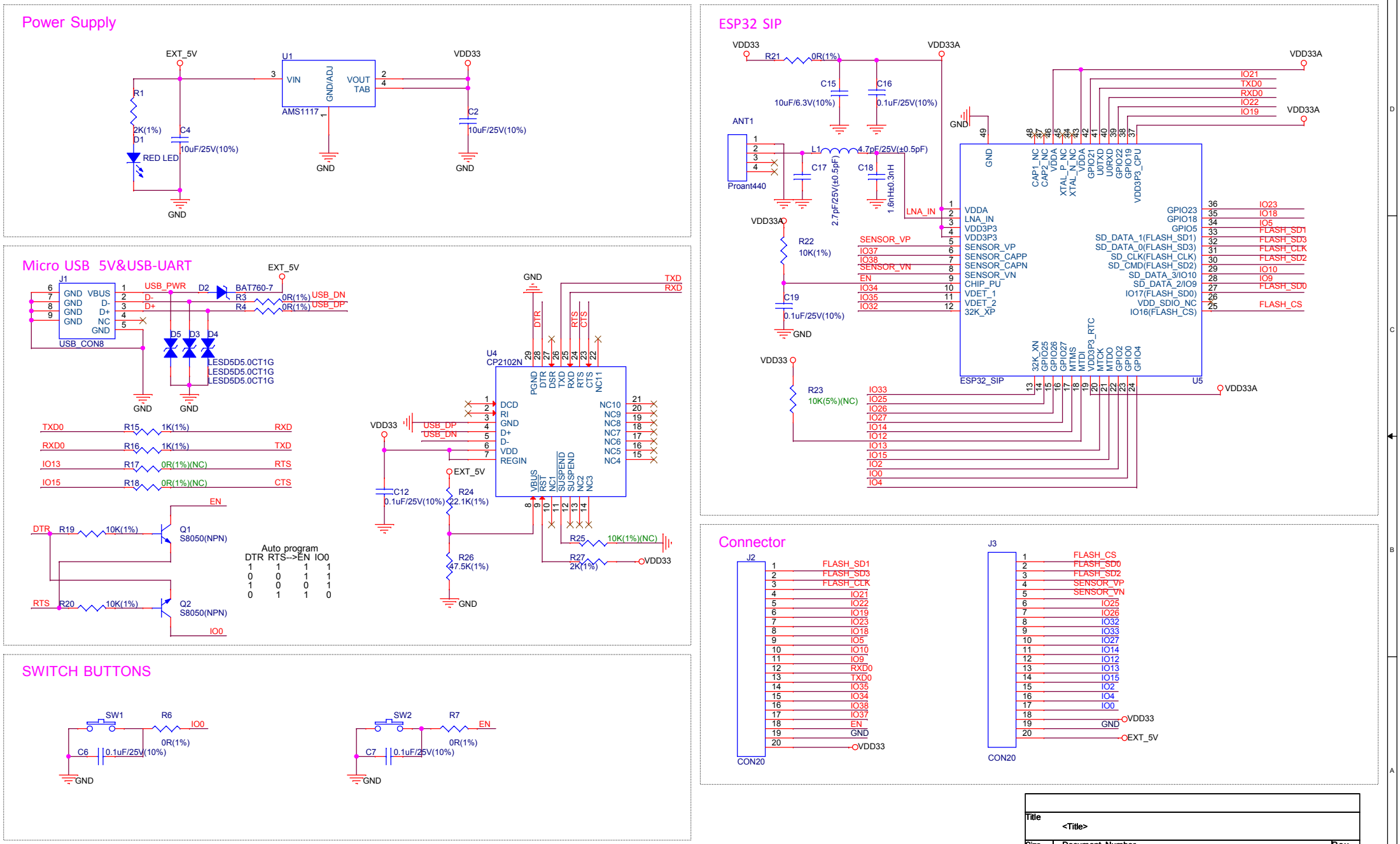
Power Supply
EXT_5V
U1
VIN
GND/ADJ
VOUT
TAB
AMS1117
VDD33
R1
2K(1%)
D1
RED LED
C4
10uF/25V(10%)
C2
10uF/25V(10%)
GND
Micro USB 5V&USB-UART
J1
USB_CON8
USB_PWR
D2
BAT760-7
R3
R4
0R(1%)
USB_DN
USB_DP
D5
D3
D4
LESD5D5.0CT1G
TXD0
RXD0
IO13
IO15
R15
R16
R17
R18
1K(1%)
0R(1%)(NC)
RXD
TXD
RTS
CTS
EN
DTR
R19
10K(1%)
Q1
S8050(NPN)
RTS
R20
Q2
IO0
Auto program
DTR RTS-->EN IO0
U4
CP2102N
DCD
RI
GND
D+
D-
VDD
REGIN
PGND
DTR
DSR
TXD
RXD
RTS
CTS
NC11
NC10
NC9
NC8
NC7
NC6
NC5
NC4
VBUS
RST
NC1
SUSPEND
SUSPEND
NC2
NC3
C12
0.1uF/25V(10%)
R24
2.1K(1%)
R26
47.5K(1%)
R25
10K(1%)(NC)
R27
2K(1%)
SWITCH BUTTONS
SW1
R6
C6
0.1uF/25V(10%)
SW2
R7
C7
ESP32 SIP
VDD33
R21
0R(1%)
VDD33A
C15
10uF/6.3V(10%)
C16
0.1uF/25V(10%)
ANT1
Proant440
L1
4.7pF/25V(±0.5pF)
C17
2.7pF/25V(±0.5pF)
C18
1.6nH±0.3nH
LNA_IN
R22
10K(1%)
SENSOR_VP
IO37
IO38
SENSOR_VN
EN
IO34
IO35
IO32
C19
0.1uF/25V(10%)
R23
10K(5%)(NC)
IO33
IO25
IO26
IO27
IO14
IO12
IO13
IO15
IO2
IO0
IO4
ESP32_SIP
U5
VDDA
LNA_IN
VDD3P3
VDD3P3
SENSOR_VP
SENSOR_CAPP
SENSOR_CAPN
SENSOR_VN
CHIP_PU
VDET_1
VDET_2
32K_XP
GND
CAP1_NC
CAP2_NC
VDDA
XTAL_P_NC
XTAL_N_NC
VDDA
GPIO21
U0TXD
U0RXD
GPIO22
GPIO19
VDD3P3_CPU
GPIO23
GPIO18
GPIO5
SD_DATA_1(FLASH_SD1)
SD_DATA_0(FLASH_SD3)
SD_CLK(FLASH_CLK)
SD_CMD(FLASH_SD2)
SD_DATA_3/IO10
SD_DATA_2/IO9
IO17(FLASH_SD0)
VDD_SDIO_NC
IO16(FLASH_CS)
32K_XN
GPIO25
GPIO26
GPIO27
MTMS
MTDI
VDD3P3_RTC
MTCK
MTDO
GPIO2
GPIO0
GPIO4
IO23
IO18
IO5
FLASH_SD1
FLASH_SD3
FLASH_CLK
FLASH_SD2
IO10
IO9
FLASH_SD0
FLASH_CS
Connector
J2
CON20
FLASH_SD1
FLASH_SD3
FLASH_CLK
IO21
IO22
IO19
IO23
IO18
IO5
IO10
IO9
RXD0
TXD0
IO35
IO34
IO38
IO37
EN
GND
J3
FLASH_CS
FLASH_SD0
FLASH_SD2
SENSOR_VP
SENSOR_VN
IO25
IO26
IO32
IO33
IO27
IO14
IO12
IO13
IO15
IO2
IO4
IO0
Title
<Title>
Size
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Document Number
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Rev
<RevCode>
Date: Wednesday, March 14, 2018
Sheet 1 of 1