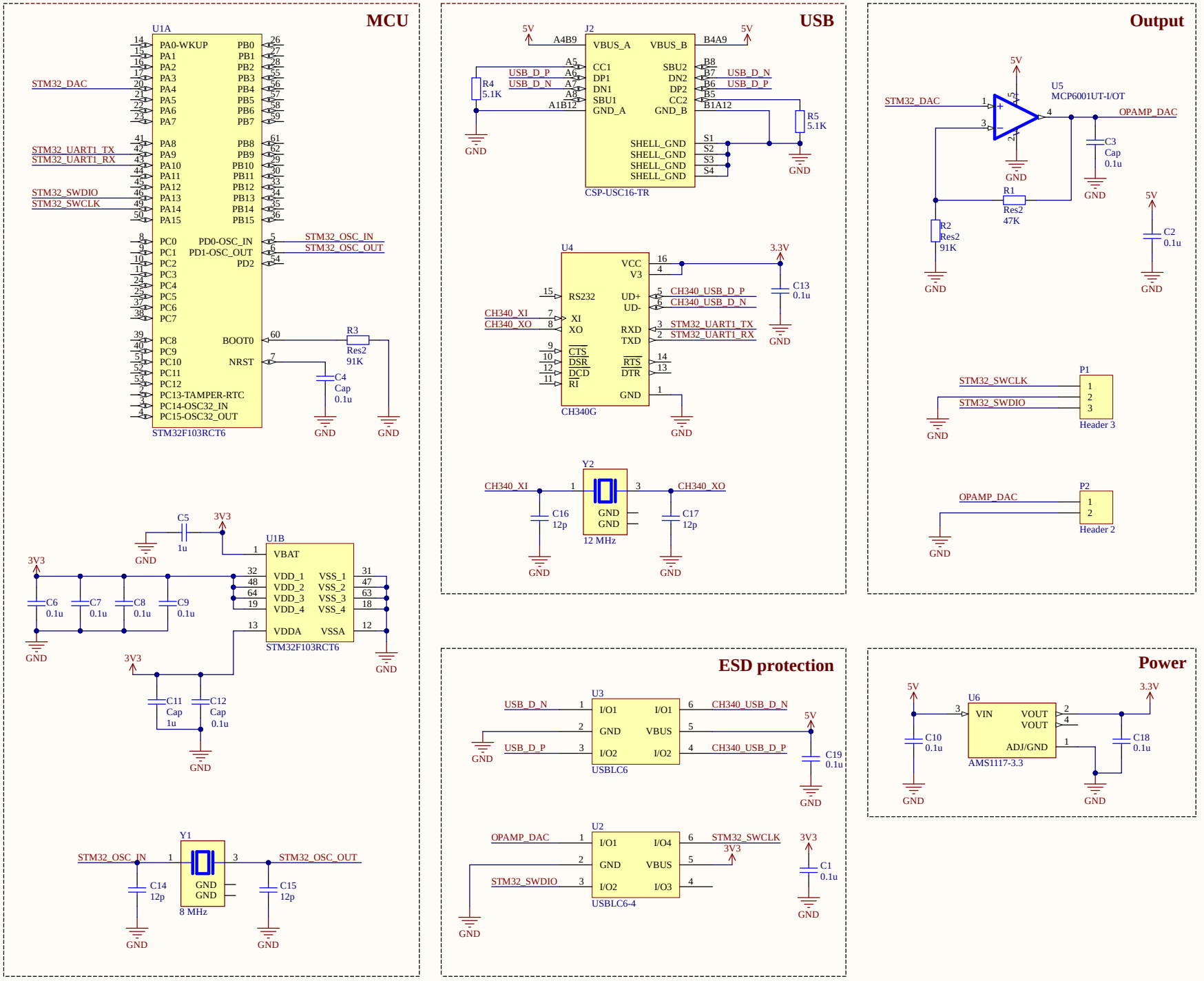
MCU
U1A
STM32_DAC
STM32_UART1_TX
STM32_UART1_RX
STM32_SWDIO
STM32_SWCLK
PA0-WKUP
PA1
PA2
PA3
PA4
PA5
PA6
PA7
PA8
PA9
PA10
PA11
PA12
PA13
PA14
PA15
PC0
PC1
PC2
PC3
PC4
PC5
PC6
PC7
PC8
PC9
PC10
PC11
PC12
PC13-TAMPER-RTC
PC14-OSC32_IN
PC15-OSC32_OUT
PB0
PB1
PB2
PB3
PB4
PB5
PB6
PB7
PB8
PB9
PB10
PB11
PB12
PB13
PB14
PB15
PD0-OSC_IN
PD1-OSC_OUT
PD2
BOOT0
NRST
STM32_OSC_IN
STM32_OSC_OUT
R3
Res2
91K
C4
Cap
0.1u
GND
STM32F103RCT6
C5
1u
3V3
U1B
VBAT
VDD_1
VDD_2
VDD_3
VDD_4
VDDA
VSS_1
VSS_2
VSS_3
VSS_4
VSSA
C6
C7
C8
C9
0.1u
C11
Cap
1u
C12
Cap
0.1u
Y1
8 MHz
C14
C15
12p
USB
J2
5V
A4B9
VBUS_A
VBUS_B
B4A9
CC1
DP1
DN1
SBU1
GND_A
SBU2
DN2
DP2
CC2
GND_B
A1B12
B1A12
USB_D_P
USB_D_N
R4
5.1K
R5
5.1K
SHELL_GND
CSP-USC16-TR
U4
VCC
V3
RS232
UD+
UD-
XI
XO
RXD
TXD
CTS
DSR
DCD
RI
RTS
DTR
CH340_XI
CH340_XO
CH340_USB_D_P
CH340_USB_D_N
CH340G
C13
0.1u
Y2
12 MHz
C16
C17
12p
Output
U5
MCP6001UT-I/OT
OPAMP_DAC
C3
Cap
0.1u
R1
Res2
47K
R2
Res2
91K
C2
0.1u
P1
Header 3
P2
Header 2
ESD protection
U3
USBLC6
U2
USBLC6-4
I/O1
I/O2
I/O3
I/O4
C19
0.1u
C1
0.1u
Power
U6
VIN
VOUT
ADJ/GND
AMS1117-3.3
C10
C18
0.1u