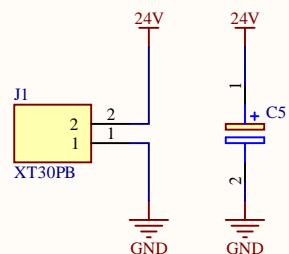
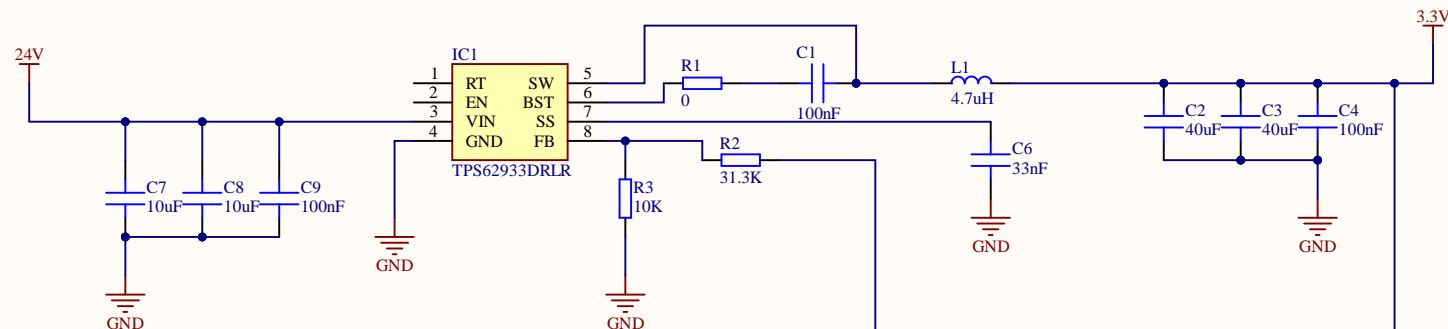


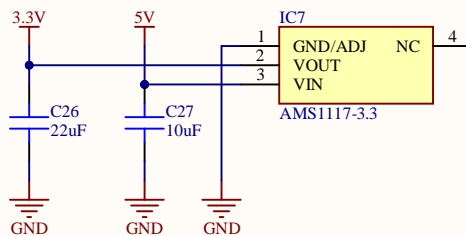
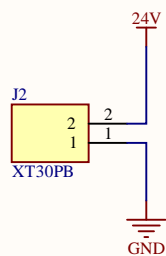
Input Voltage



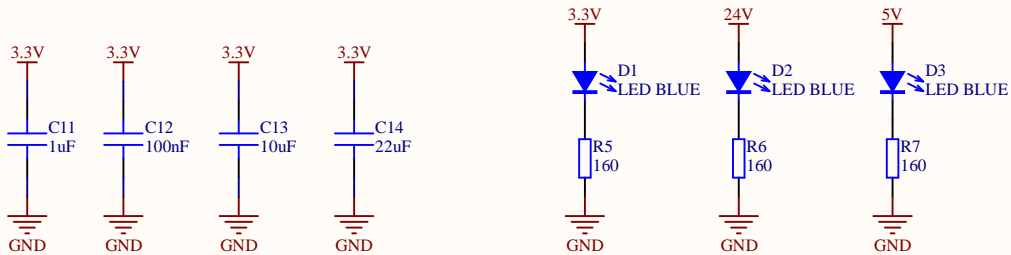
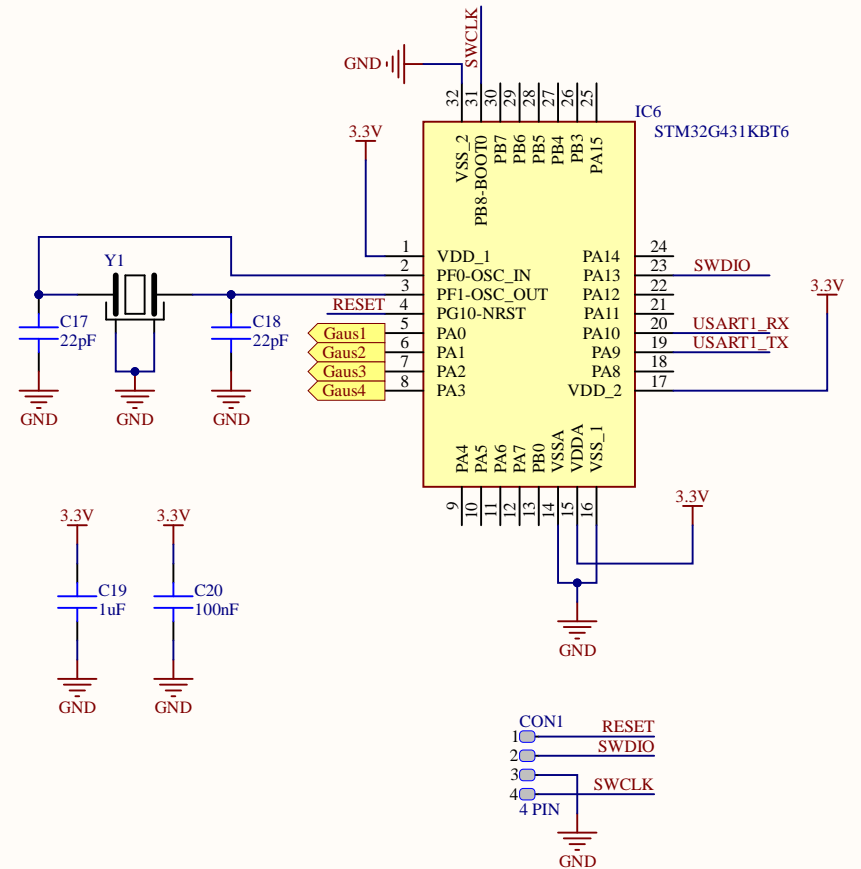
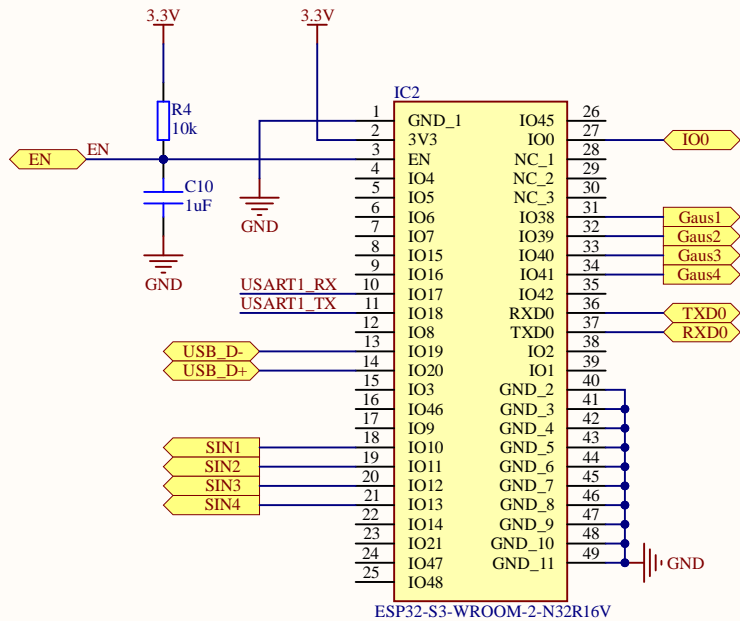
Sep Down voltage regulator



Output Voltage

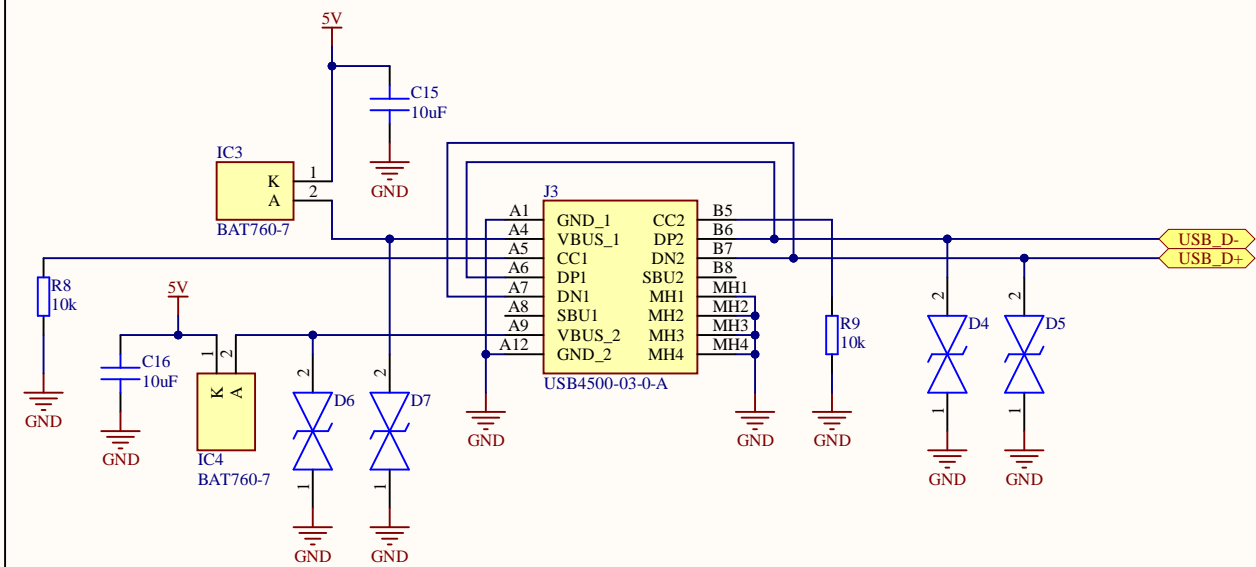


Title		
Size A4	Number	Revision
Date:	10.12.2025	Sheet of
File:	C:\ALTUM_PROJECTS\...\PowerSupply_SchDoc	By:

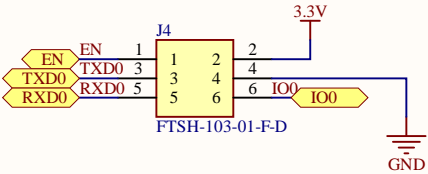


Title		
Size	Number	Revision
A4		
Date:	10.12.2025	Sheet of
File:	C:\ALTUM_PROJECTS\...\MCU.SchDoc	Drawn By:

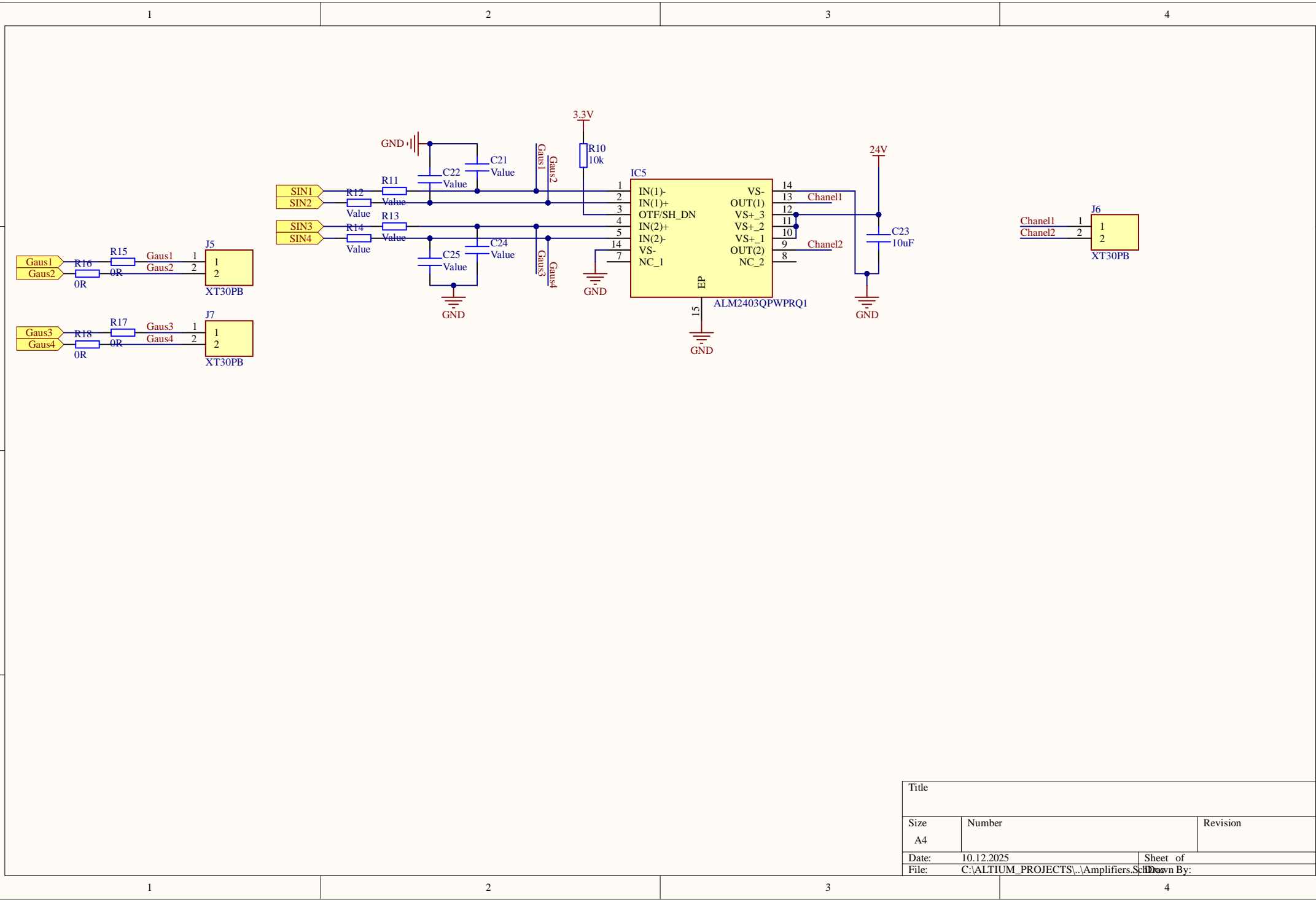
USBC connector



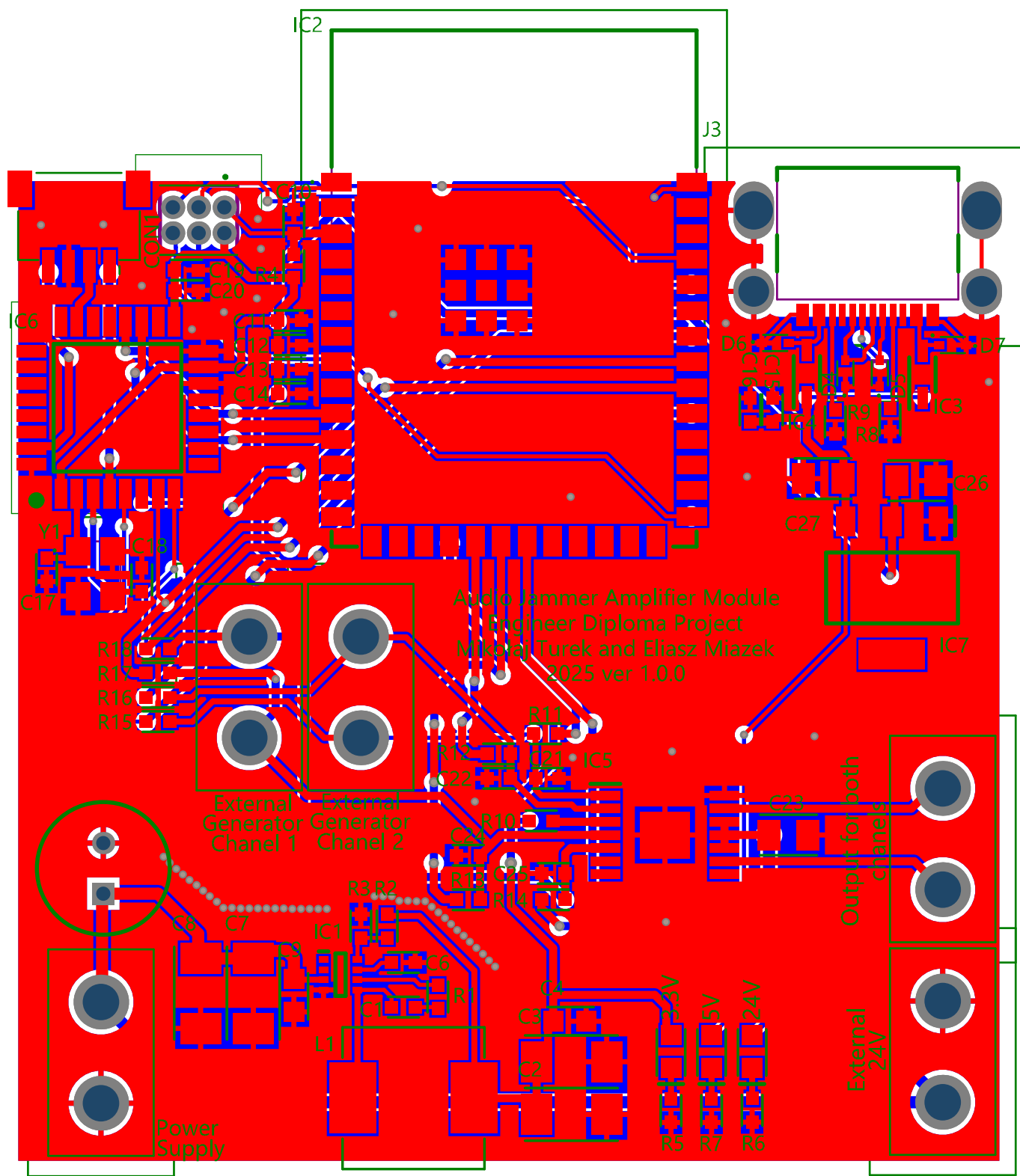
UART connector



Title		
Size A4	Number	Revision
Date:	10.12.2025	Sheet of
File:	C:\ALTUM_PROJECTS\...\Interface.SchDoc	Drawn By:



Title		
Size A4	Number	Revision
Date:	10.12.2025	Sheet of
File:	C:\ALTUM_PROJECTS\...\Amplifiers.SchDoc	



Comment	Description	Designator	Footprint	LibRef	Quantity
100nF	MLCC Capacitor	C1, C12, C20	C 0402	Capacitor	3
40uF	MLCC Capacitor	C2, C3	C 1206	Capacitor	2
100nF	MLCC Capacitor	C4, C9	C 0603	Capacitor	2
UVY1V101MED1TD	Capacitor Polarised	C5	CAPPRD250W50D655 H1250	UVY1V101MED1TD	1
33nF	MLCC Capacitor	C6	C 0402	Capacitor	1
10uF	MLCC Capacitor	C7, C8	C 1206	Capacitor	2
1uF	MLCC Capacitor	C10, C11, C19	C 0402	Capacitor	3
10uF	MLCC Capacitor	C13, C15, C16	C 0402	Capacitor	3
22uF	MLCC Capacitor	C14	C 0402	Capacitor	1
22pF	MLCC Capacitor	C17, C18	C 0402	Capacitor	2
Value	MLCC Capacitor	C21, C22, C24, C25	C 0402	Capacitor	4
10uF	MLCC Capacitor	C23, C27	C 0805	Capacitor	2
22uF	MLCC Capacitor	C26	C 0805	Capacitor	1
4 PIN		CON1	SM04B-SRSS-TB	4 PIN	1
LED BLUE		D1, D2, D3	LED 0603 BLUE	LED BLUE	3
LESD5D5.0CT1G	TVS Diode (Bi-directional)	D4, D5, D6, D7	LESD5D50CT1G	LESD5D5.0CT1G	4
TPS62933DRLR	Integrated Circuit	IC1	SOTFL50P160X60-8N	TPS62933DRLR	1
ESP32-S3-WROOM-2-N32R16V	Integrated Circuit	IC2	ESP32S3WROOM2N3 2R16V	ESP32-S3-WROOM-2-N32R16V	1
BAT760-7	Integrated Circuit	IC3, IC4	SOD2513X120N	BAT760-7	2
ALM2403QPWPRQ1	Integrated Circuit	IC5	SOP65P640X120-15N	ALM2403QPWPRQ1	1
STM32G431KBT6	Integrated Circuit	IC6	QFP80P900X900X160-32N	STM32G431KBT6	1
AMS1117-3.3	Integrated Circuit	IC7	SOT229P700X180-4N	AMS1117-3.3	1
XT30PB	Connector	J1, J2, J5, J6, J7	XT30PB	XT30PB	5
USB4500-03-0-A	Connector	J3	USB4500030A	USB4500-03-0-A	1
FTSH-103-01-F-D	Connector	J4	FTSH-103-XX-YYY-D	FTSH-103-01-F-D	1
4.7uH	General pourpouse inductor	L1	HPI0630	Inductor	1
0	General pourpouse resistor	R1	R 0402	Resistor	1
31.3K	General pourpouse resistor	R2	R 0402	Resistor	1
10K	General pourpouse resistor	R3, R4, R8, R9, R10	R 0402	Resistor	5
160	General pourpouse resistor	R5, R6, R7	R 0402	Resistor	3
Value	General pourpouse resistor	R11, R12, R13, R14	R 0402	Resistor	4
0R	General pourpouse resistor	R15, R16, R17, R18	R 0402	Resistor	4
MCSJK-7U-16.00-12-30-80-B-30	Crystal or Oscillator	Y1	MCSJK7U1600123080 B30	MCSJK-7U-16.00-12-30-80-B-30	1