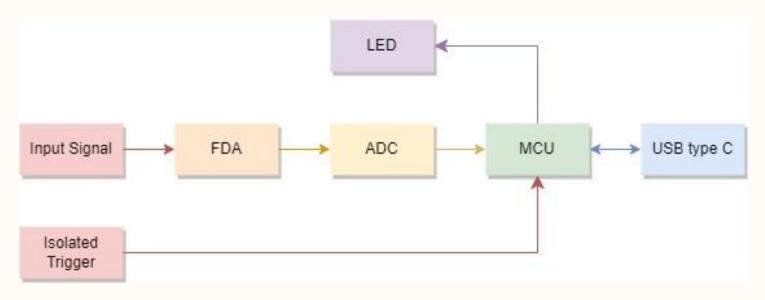
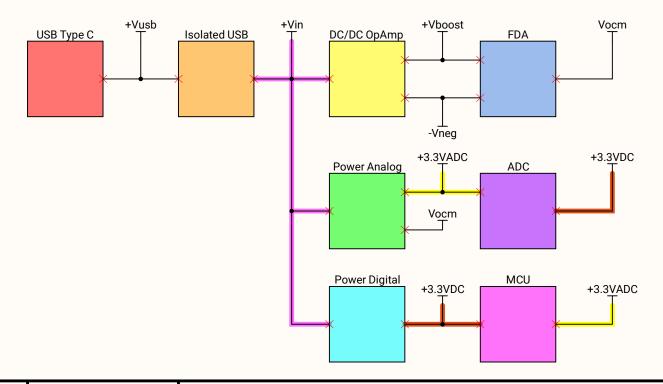
Block Diagram



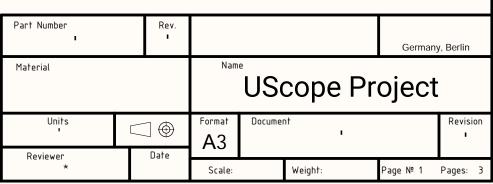
Power Tree



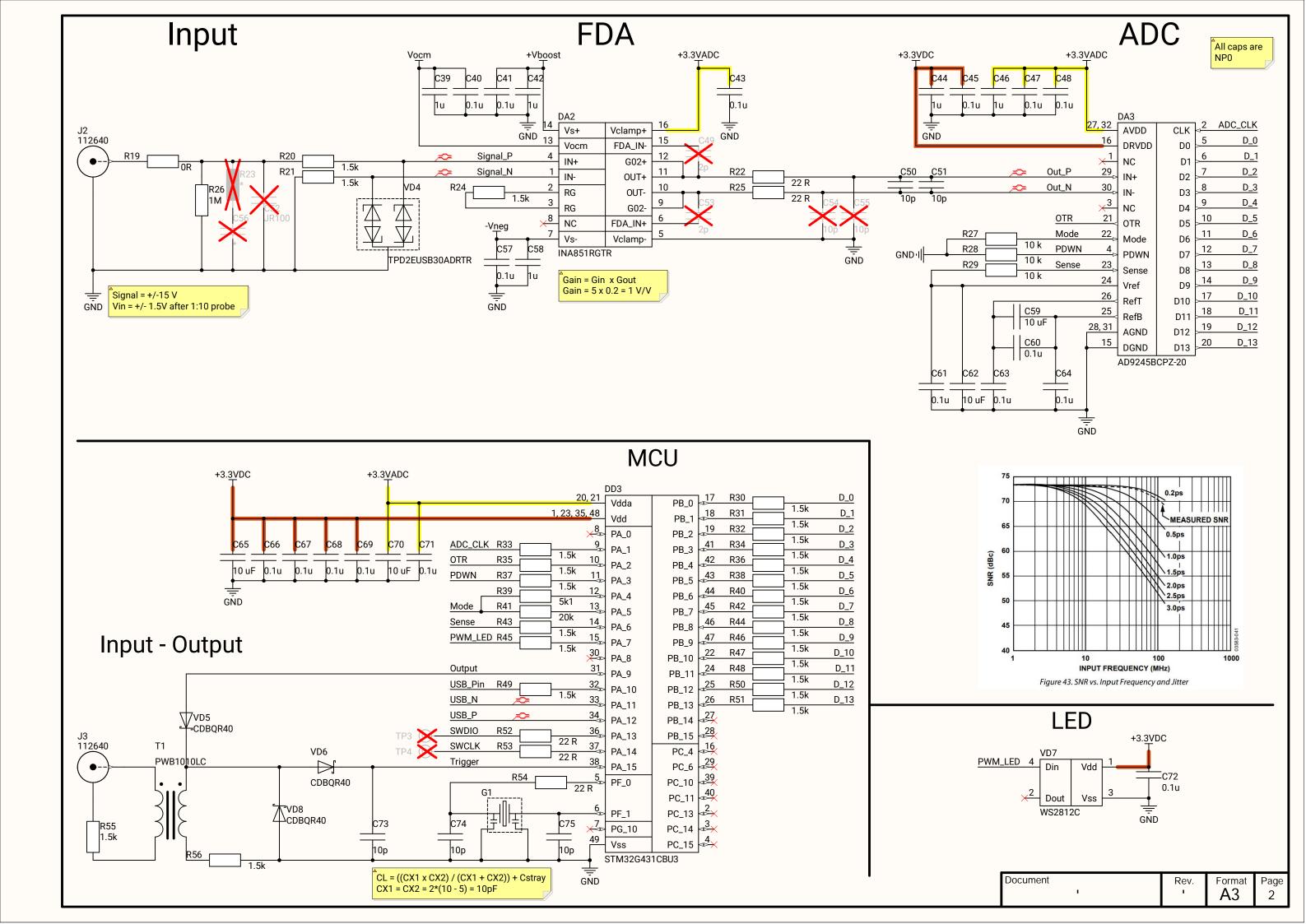
		History					
Revision	Date	Description					
ver 0.1	24.02.2024	Initial draft	To Do: Check MCU pinout with R Check USB prog with R shield S02-25200300				

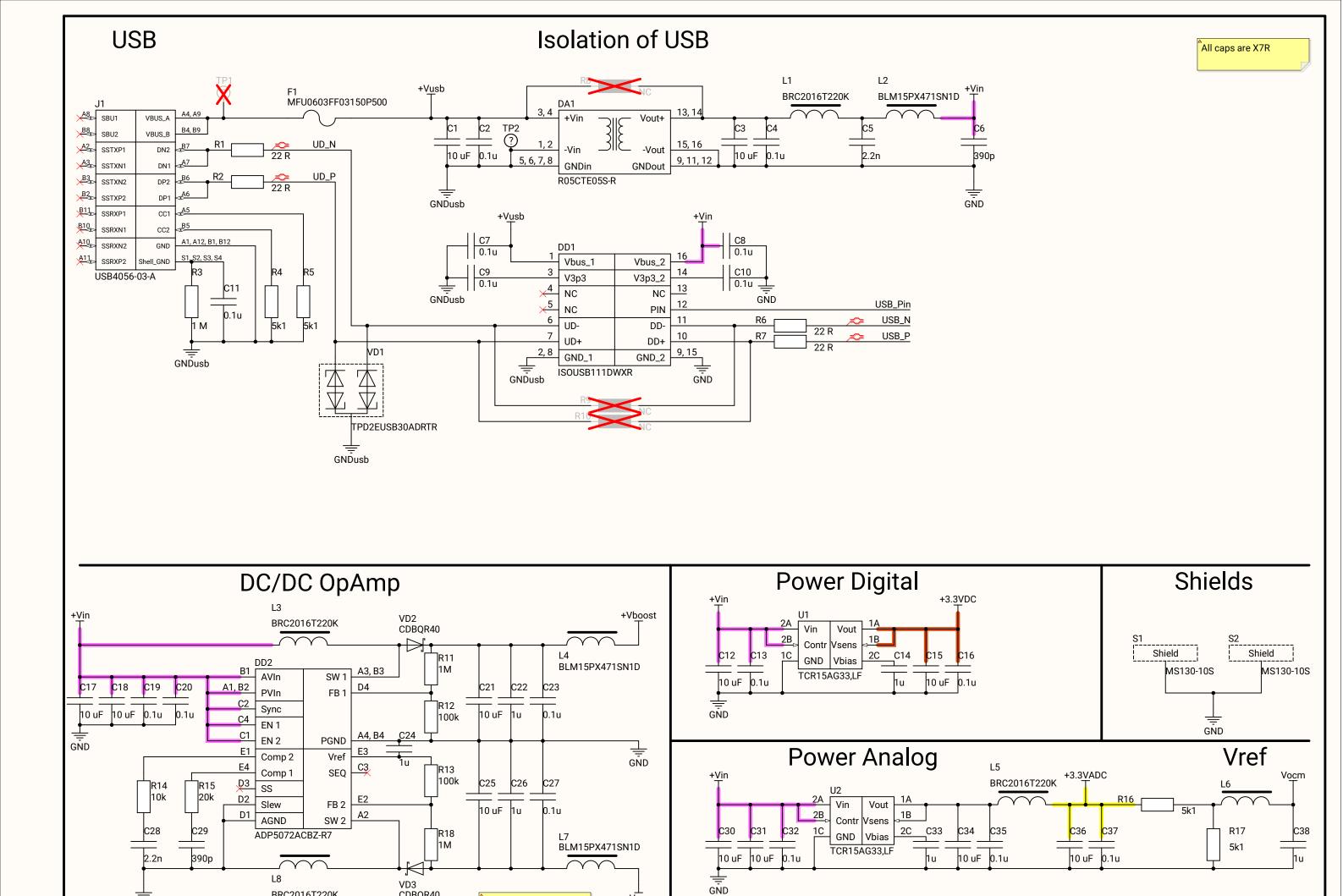
Pins Function Table

					1
#	Port	Pin	Function	Name	Comment
1	N/A	N/A	Power	Vdd	
2	С	13	NC	N/A	
3	С	14	NC	N/A	
4	С	15	NC	N/A	
5	F	0	OSC+	N/A	
6	F	1	OSC-	N/A	
7	G	0	NC	N/A	
8	Α	0	NC	N/A	
9	Α	1	TIM2_2	ADC_CLK	Up to 20 MHz
10	Α	2	Input	OTR	From ADC
11	Α	3	Output	PDWN	ADC on/off
12	Α	4	Output	Mode_1	Twos Complement
13	Α	5	Output	Mode_2	Offset Binary
14	Α	6	Output	Sense	Need to be open drain
15	Α	7	TIM17_1	PWM_LED	For WS2812
16	С	4	NC	N/A	
17	В	0	Input	D0	From ADC data line
18	В	1	Input	D1	From ADC data line
19	В	2	Input	D2	From ADC data line
20	N/A	N/A	Power	Vdda	
21	N/A	N/A	Power	Vdda	
22	В	10	Input	D10	From ADC data line
23	N/A	N/A	Power	Vdd	
24	В	11	Input	D11	From ADC data line
25	В	12	Input	D12	From ADC data line
26	В	13	Input	D13	From ADC data line
27	В	14	NC	N/A	Trom To data mio
28	В	15	NC	N/A	
29	C	6	NC	N/A	
30	A	8	NC	N/A	
31	A	9	Output	Output	
32	A	10	Output	USB Pin	Reboot USB isolator
33	A	11	USB	USB_N	RCDOOL OOD ISOIALOI
34	A	12	USB	USB_P	
35	N/A	N/A	Power	Vdd	
36	A	13	SWDIO	SWDIO	
37	A	14	SWCLK	SWCLK	
38	A	15	EXTI15	Trigger	
39	C	10	NC	N/A	
40	C	11	NC NC	N/A N/A	
41	В	3		D3	From ADC data line
42		4	Input	D3	From ADC data line From ADC data line
	В		Input		
43	В	5	Input	D5	From ADC data line
44	В	6	Input	D6	From ADC data line
45	В	7	Input	D7	From ADC data line
46	В	8	Input	D8	From ADC data line
47	В	9	Input	D9	From ADC data line
48	N/A	N/A	Power	Vdd	
49	N/A	N/A	Vss	GND	



place P/N





-Vneg

Document

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Calculations are in excel

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VD3 CDBQR40