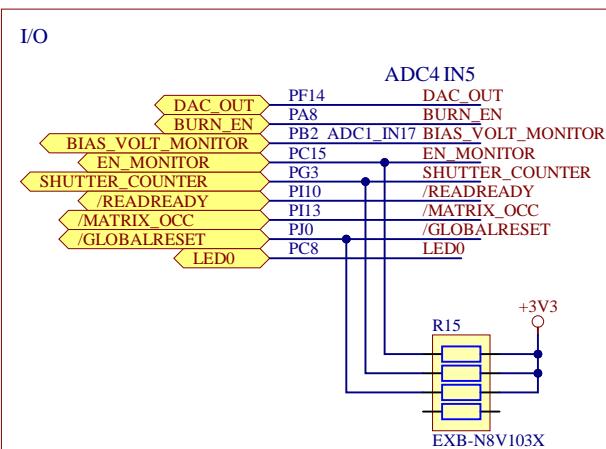
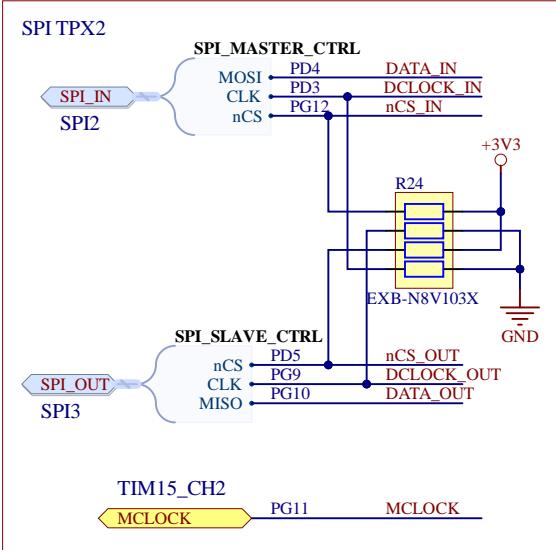
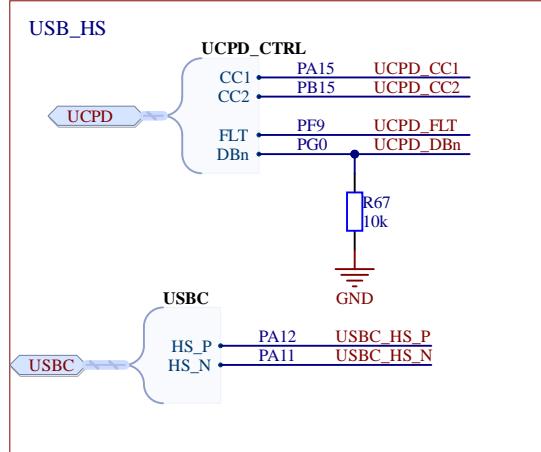
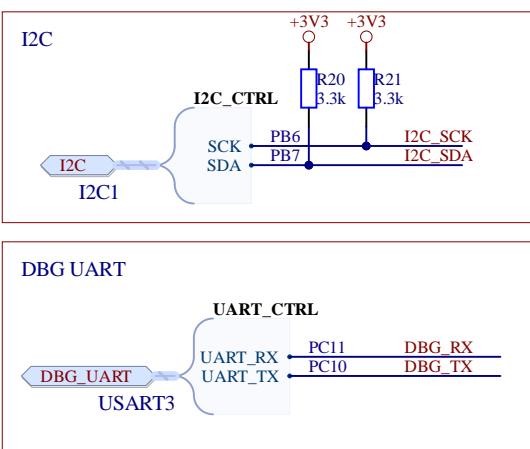
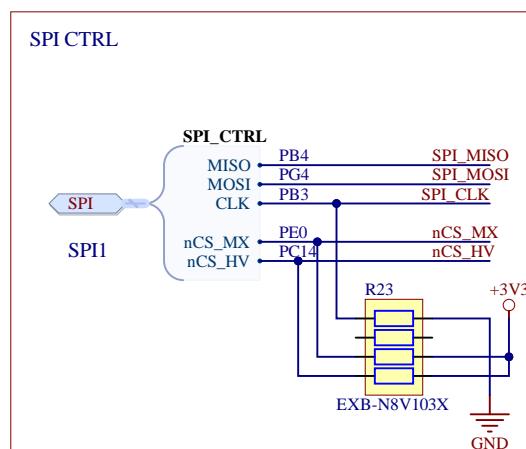
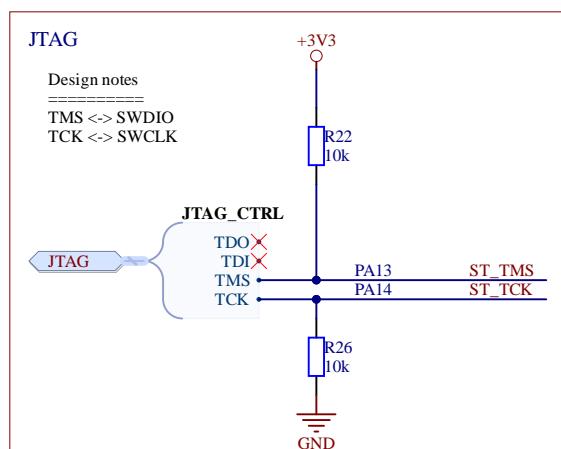
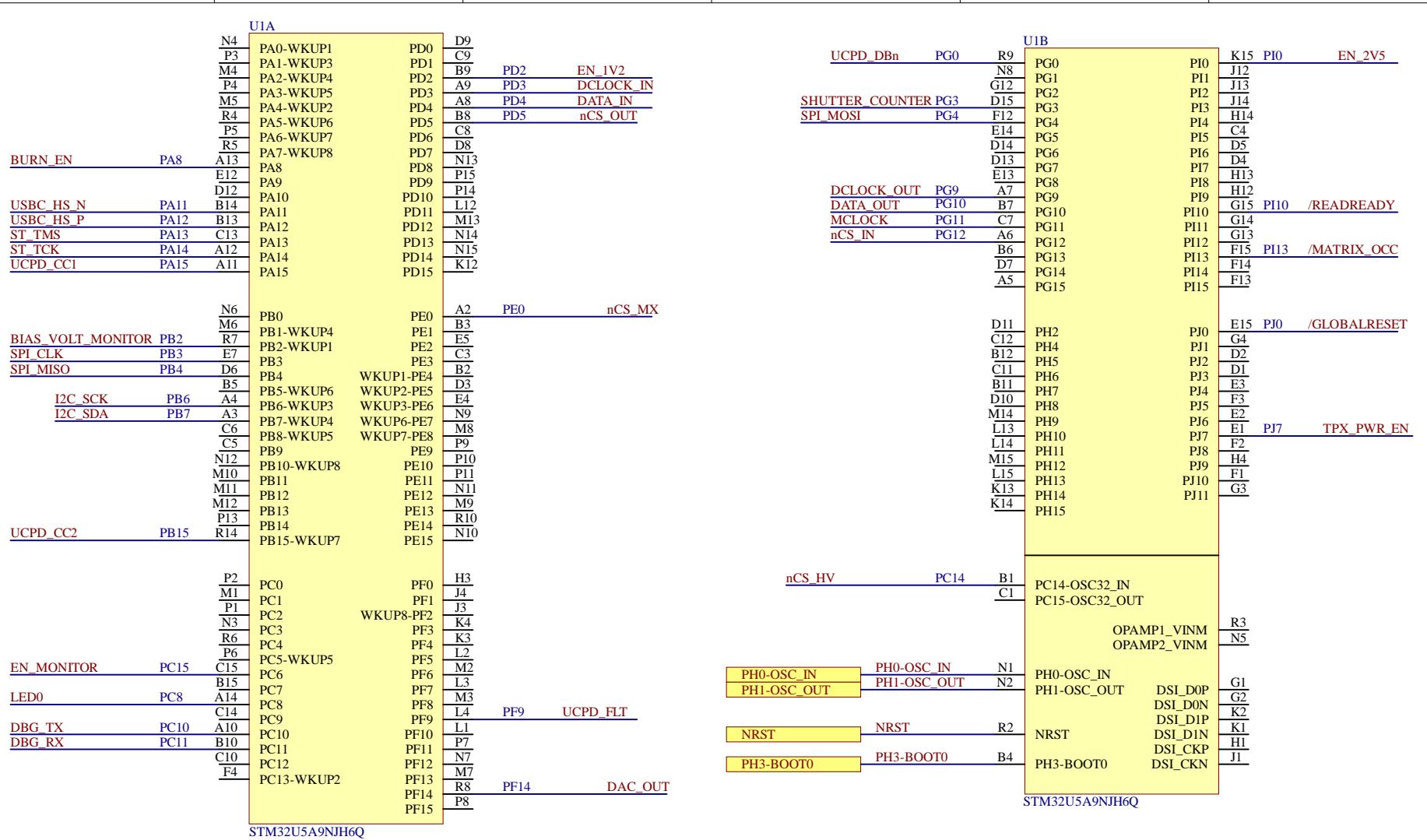
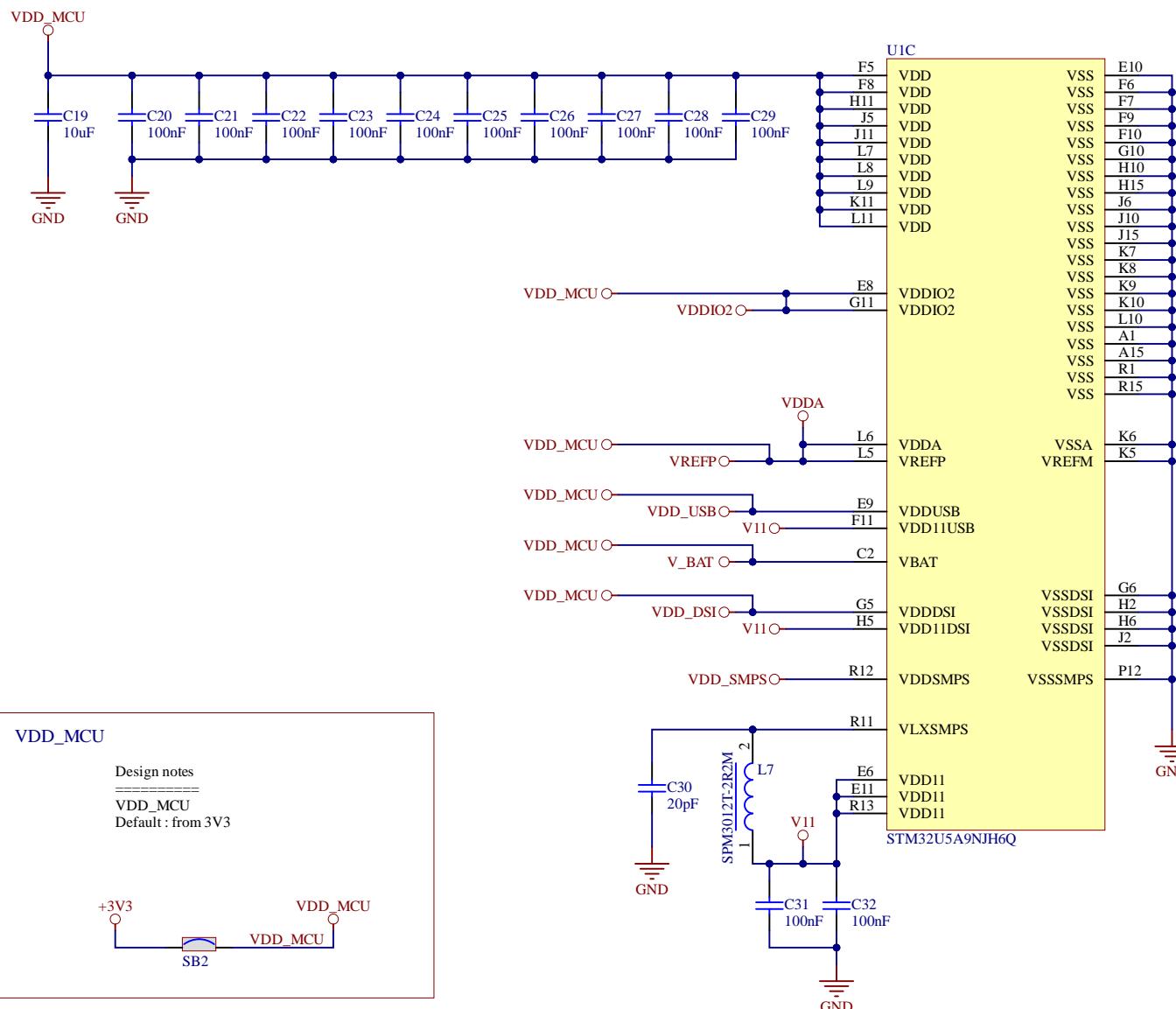


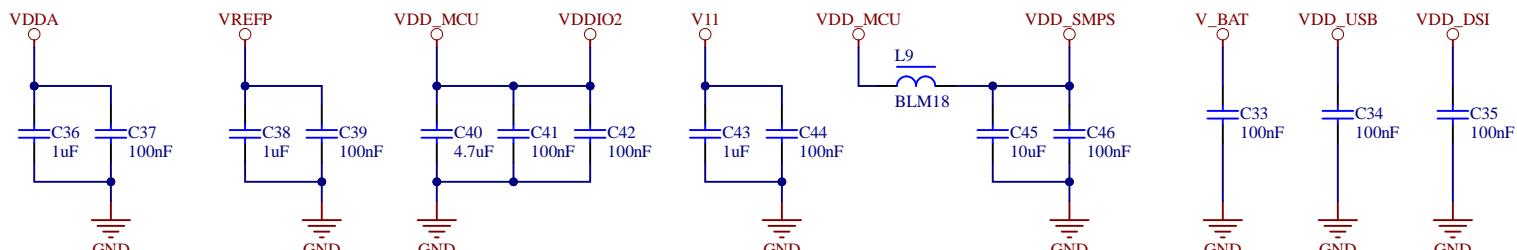
Title: Top Level.SchDoc	
Project: tpx2min.PrjPcb	
	Author: Ondrej Pavlas
Sheet: 1 of 8	Version: v2



Title:	MCU_IO.SchDoc
Project:	tpx2min.PrtPcb
	Author: Ondrej Pavlas
	Sheet: 2 of 8 Version: v2

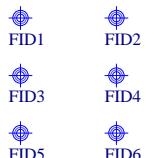
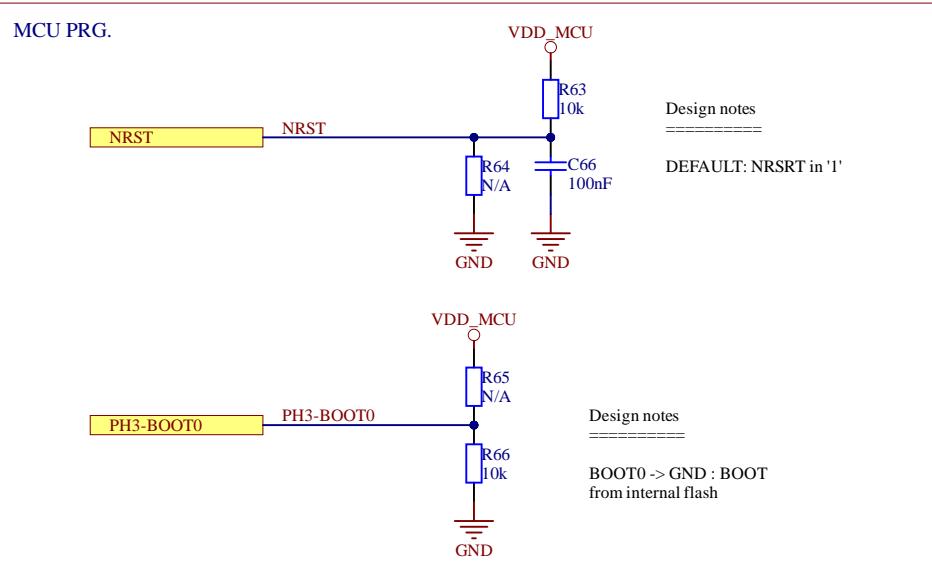
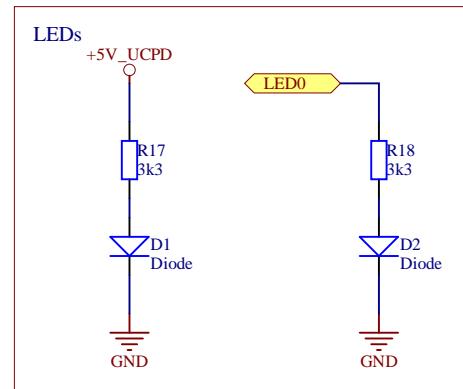
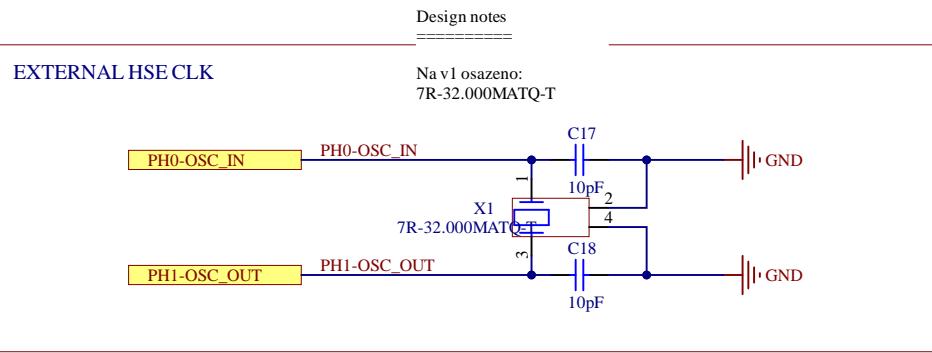


VDD MCU DECOUPLING



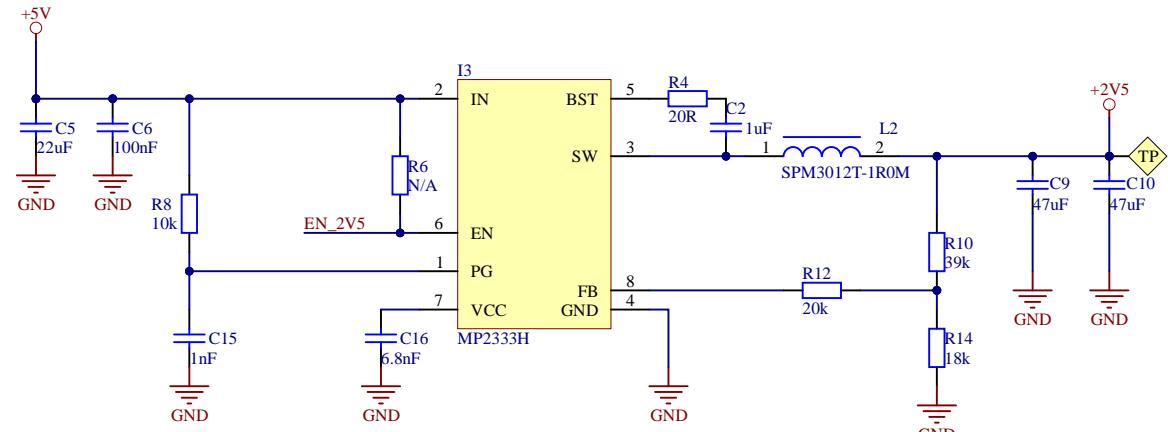
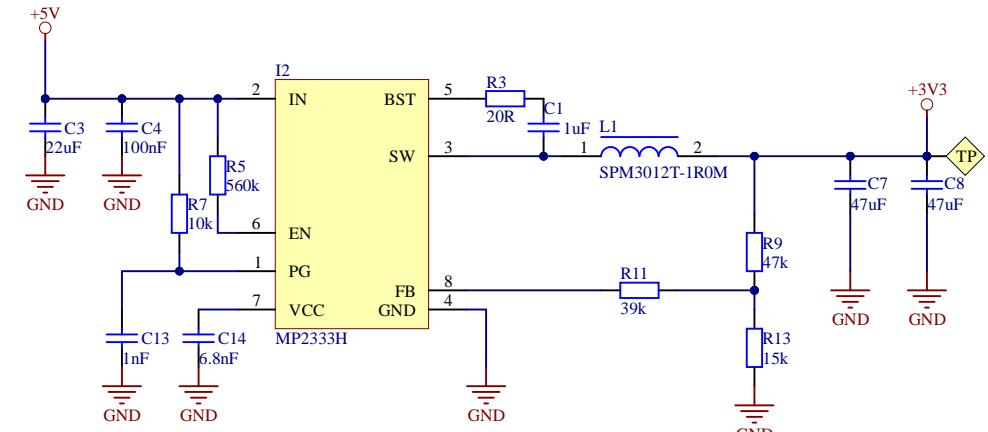
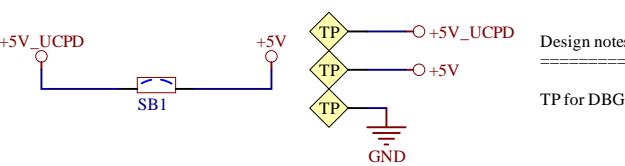
A

A

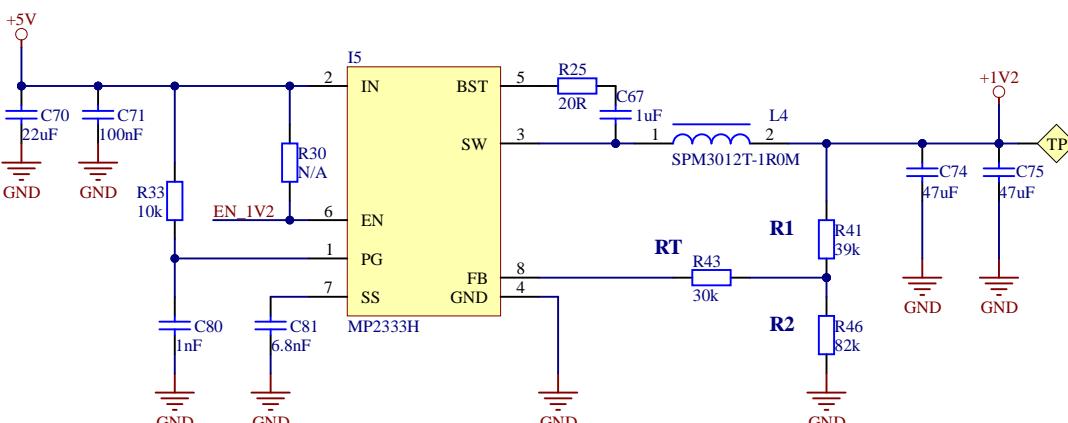


Title: MCU_CLK_and_USER.SchDoc	
Project: tpx2min.PjPcb	
	Author: Ondrej Pavlas
Sheet: 4 of 8	Version: v2

A



B



EN_2V5 EN_2V5

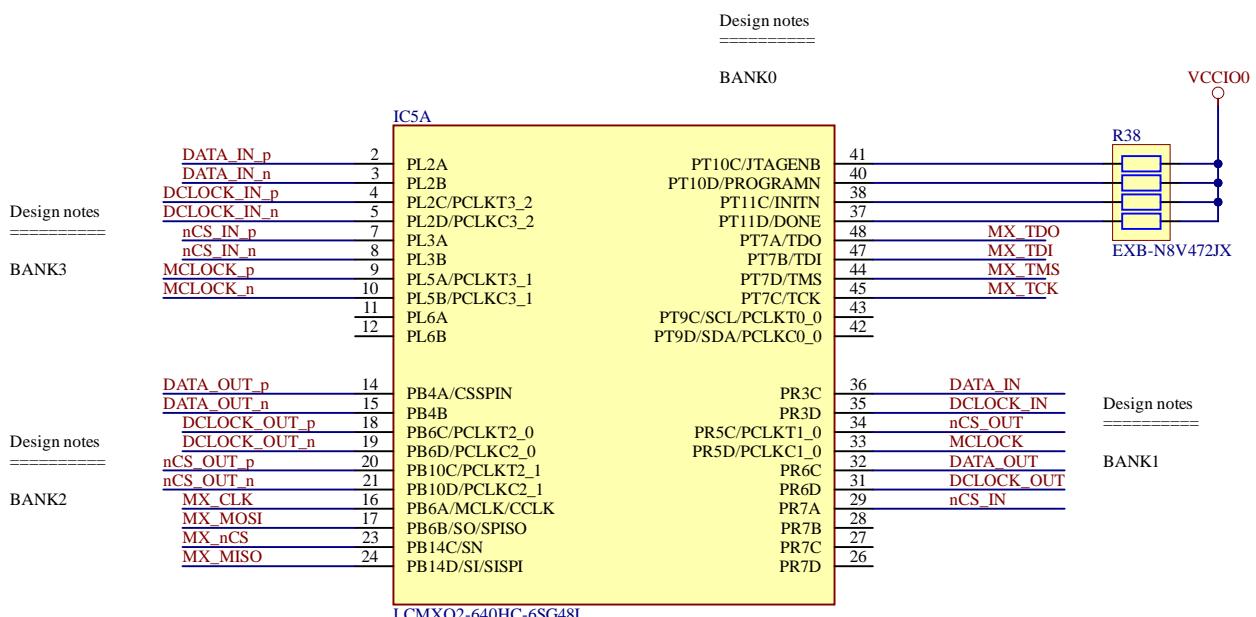
EN_1V2 EN_1V2

Title: BOARD_PWR_MP.SchDoc	
Project: tpx2min.PnjPcb	
	Author: Ondrej Pavlas
Sheet: 5 of 8	Version: v2

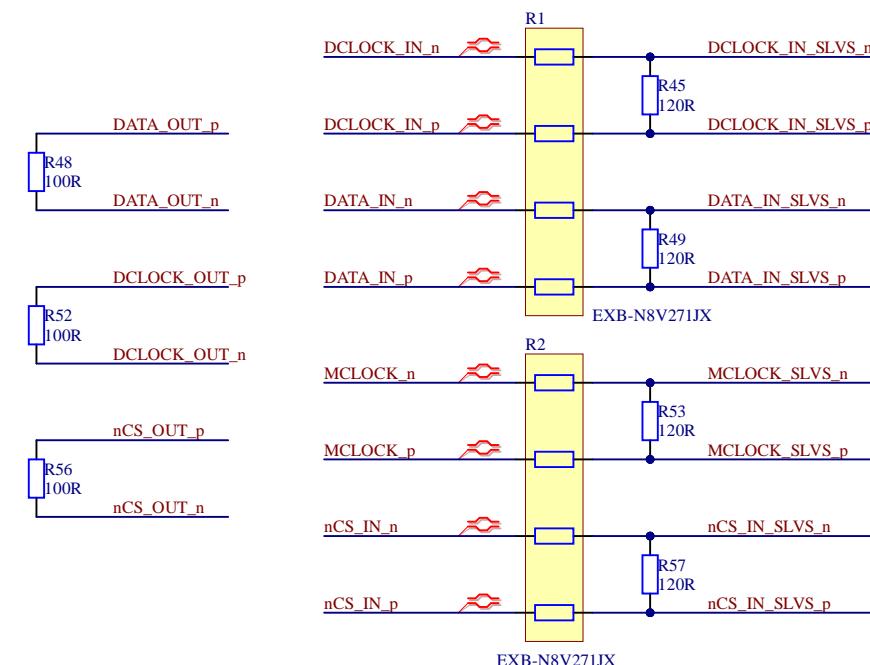
D

A

MACHXO2

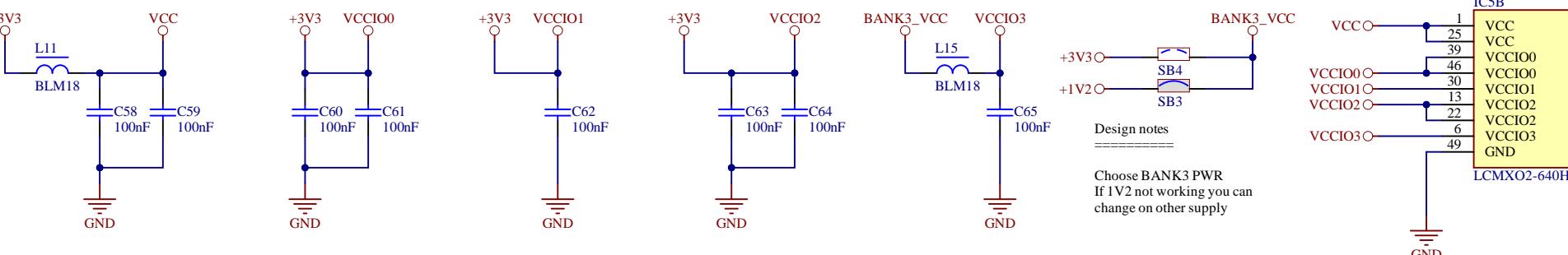


SLVS & TERM.

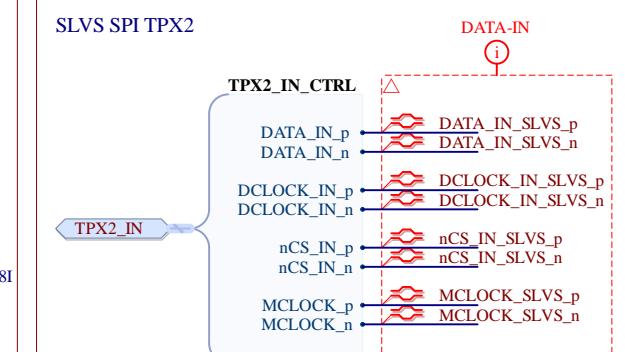


B

MX PWR

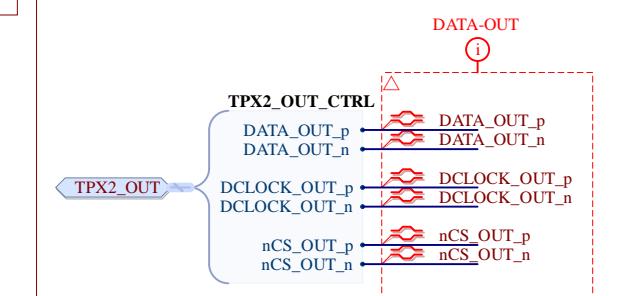
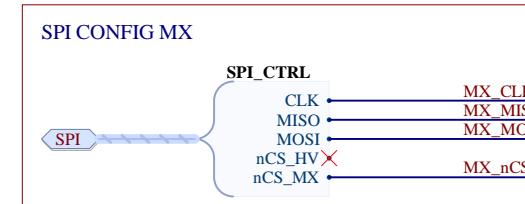
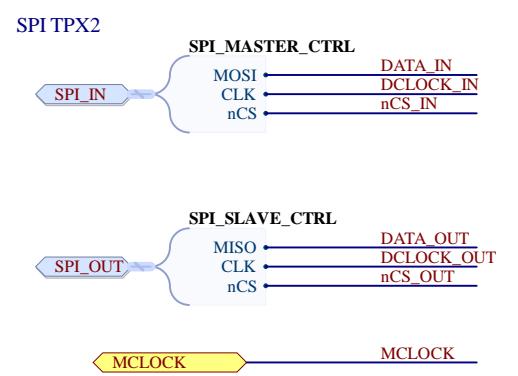
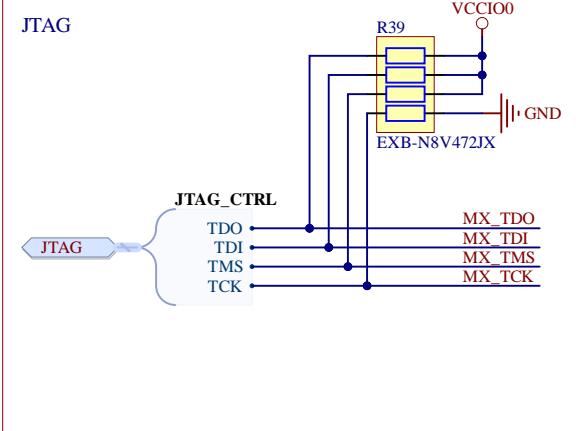


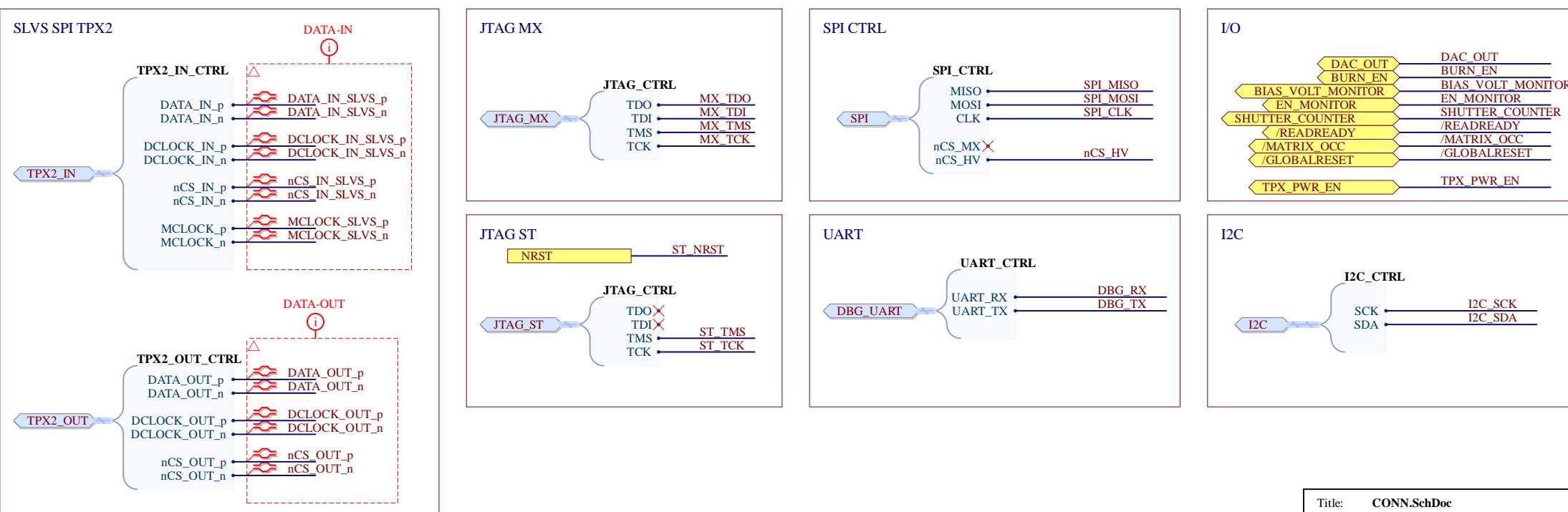
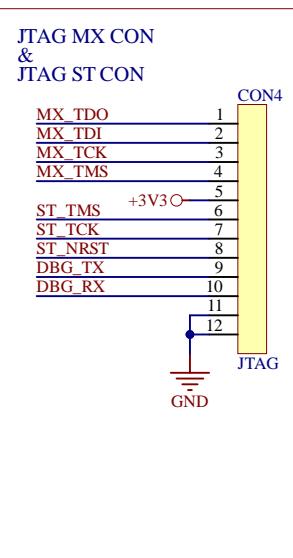
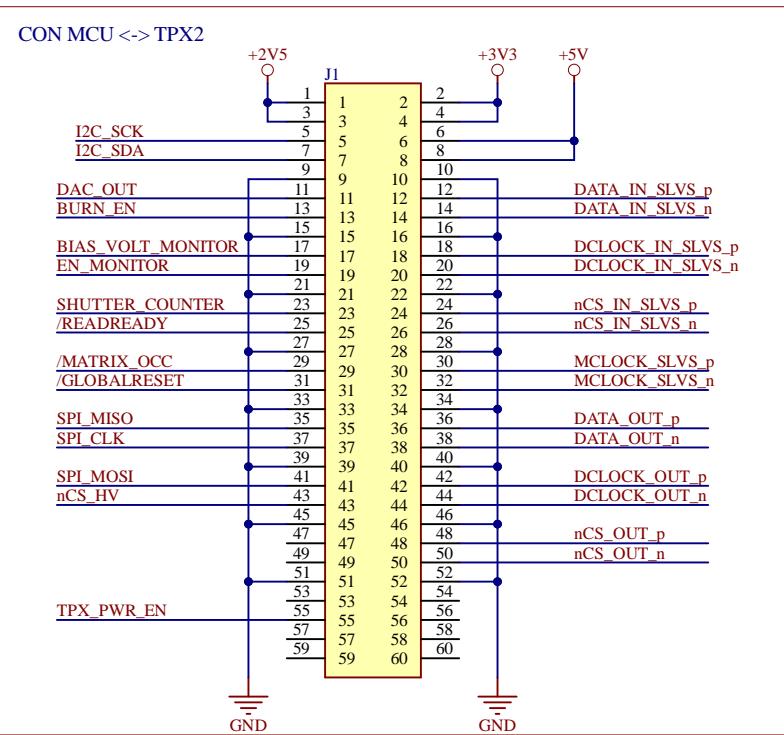
SLVS SPI TPX2

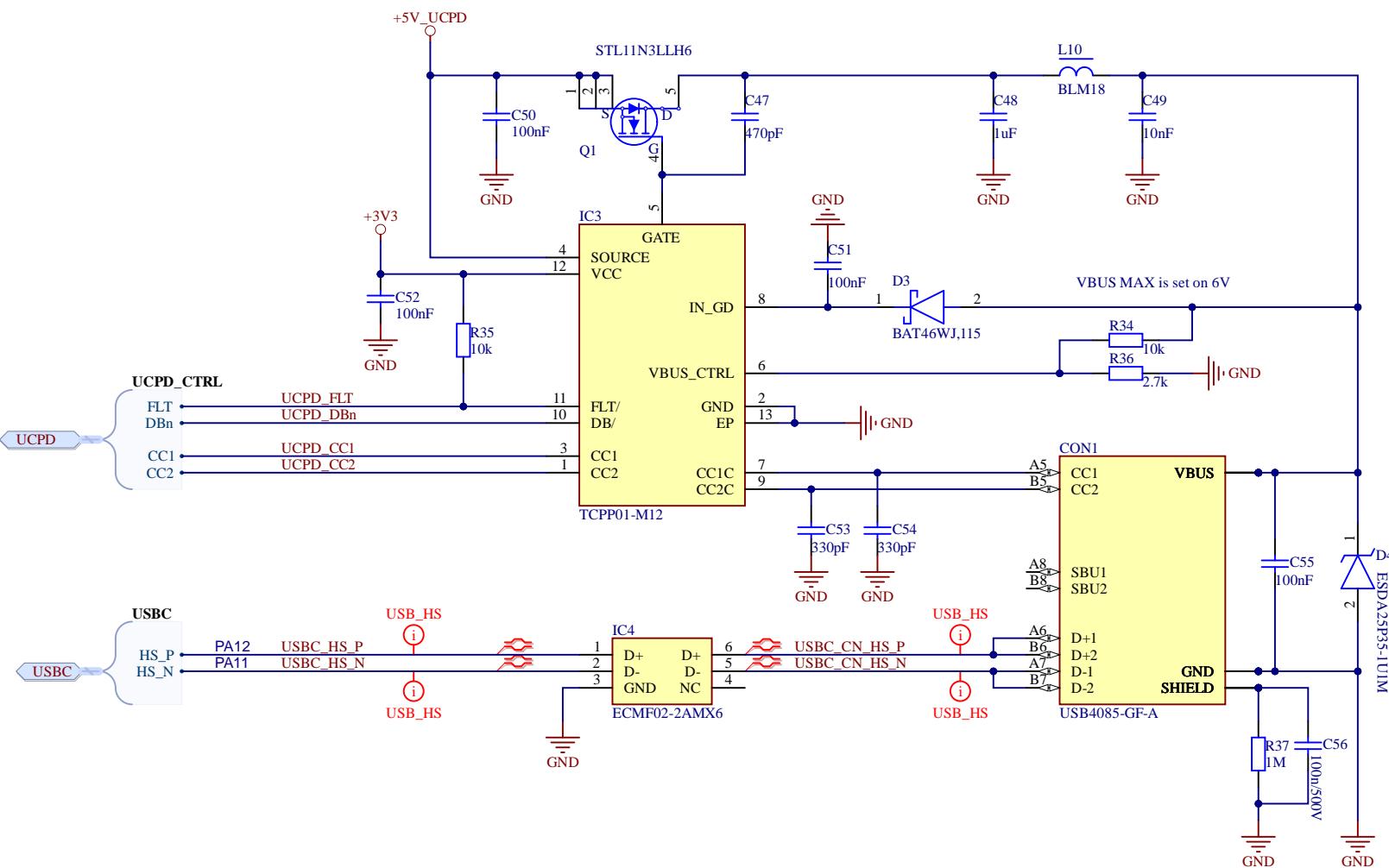


D

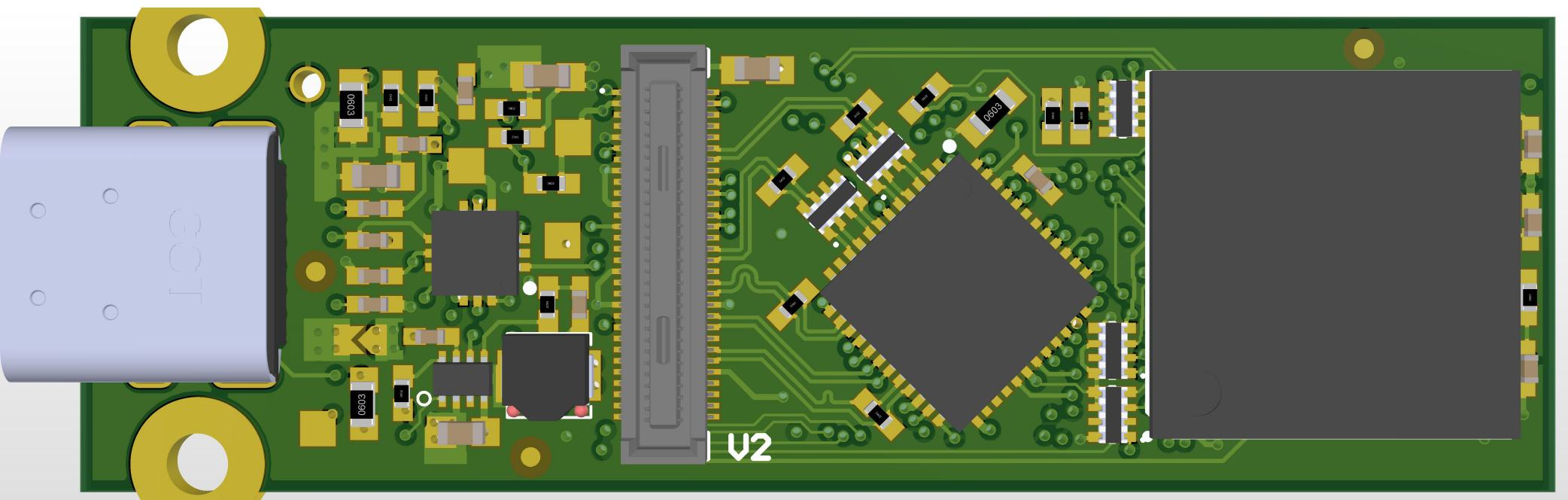
JTAG

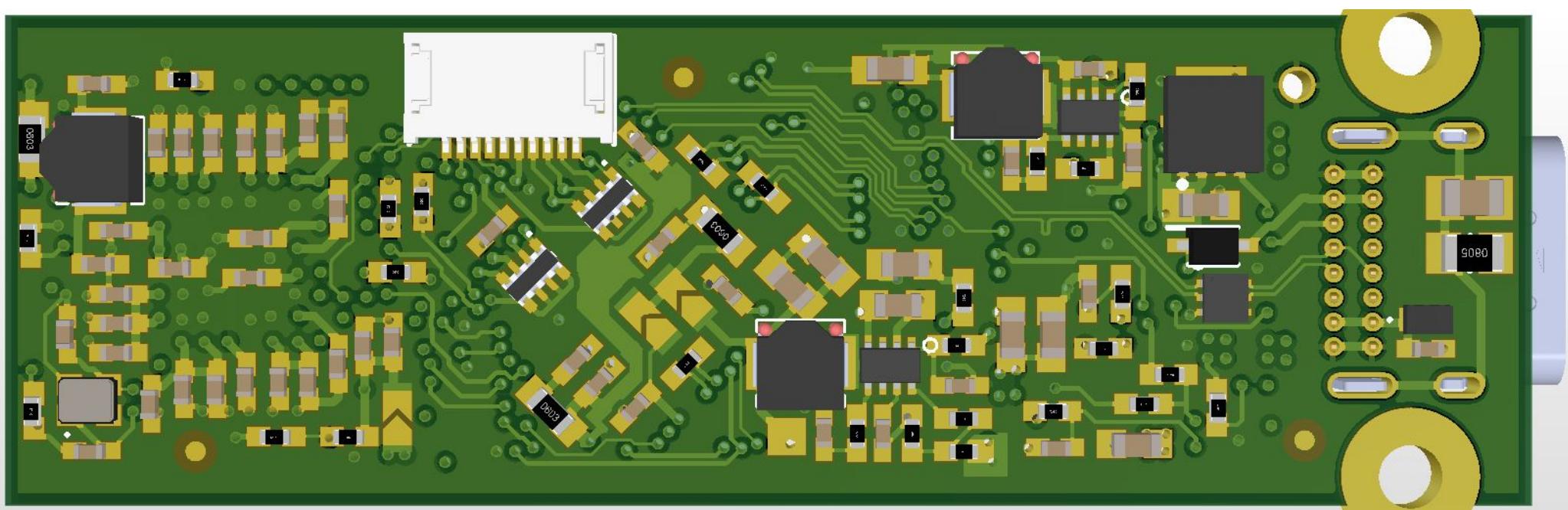






Title:	USBHS_TYPEC.SchDoc
Project:	tpx2min.PrjPcb
	Author: Ondrej Pavlas
	Sheet: 8 of 8 Version: v2





A

B

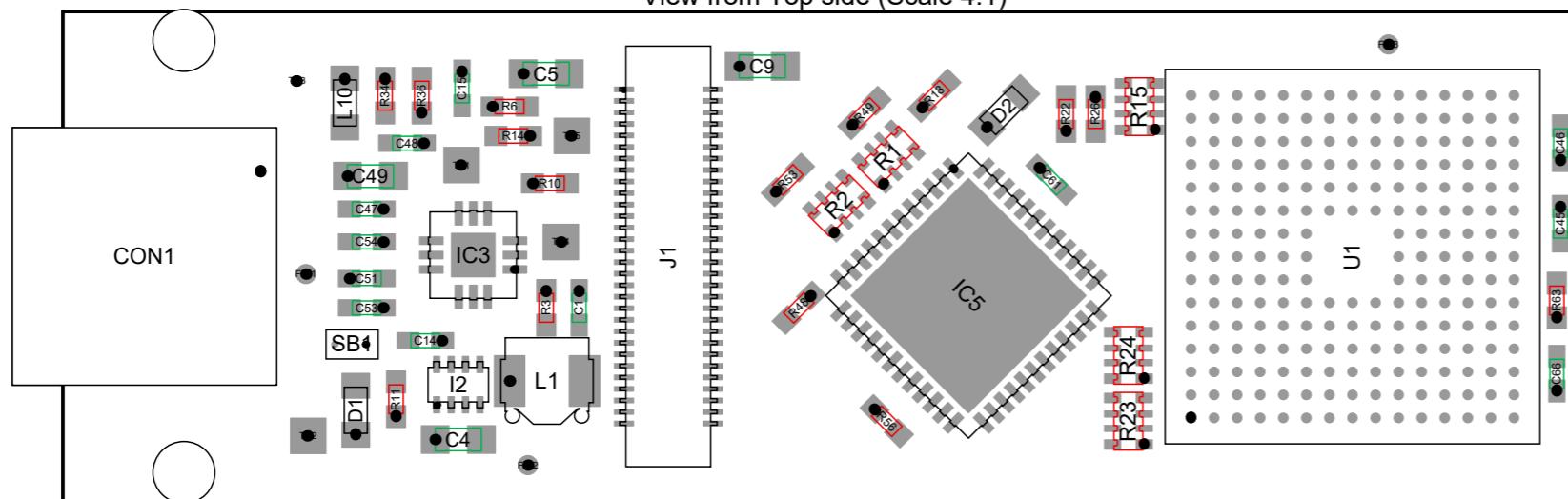
C

D

Bill Of Materials - TOP

Line #	Designator	Name	Quantity
	CON1	USB4085-GF-A	1
	TP1, TP2, TP3, TP4, TP5	TP	5
	IC3	TCPP01-M12	1
	U1	STM32U5A9NJH6Q	1
	L1	SPM3012T-1R0M	1
	SB1	SB_OFF	1
	R6	N/A	1
	I2	MP2333H	1
	IC5	LCMXX02-640HC-6SG48I	1
	FID1, FID2, FID3	Fiducial	3
	R1, R2	EXB-N8V271JX	2
	R15, R23, R24	EXB-N8V103X	3
	D1, D2	Diode	2
	J1	DF40HC(2.5)-60DS-0.4V(51)	1
	L10	BLM18	1
	C47	470pF	1
	C53, C54	330pF	2
	R49, R53	120R	2
	R48, R56	100R	2
	C4, C46, C51, C61, C66	100nF	5
	C9	47uF	1
	R10, R11	39k	2
	C5	22uF	1
	R3	20R	1
	R14	18k	1
	C45	10uF	1
	C49	10nF	1
	R22, R26, R34, R63	10k	4
	C14	6.8nF	1
	R18	3k3	1
	R36	2.7k	1
	C1, C48	1uF	2
	C15	1nF	1

View from Top side (Scale 4:1)



A

B

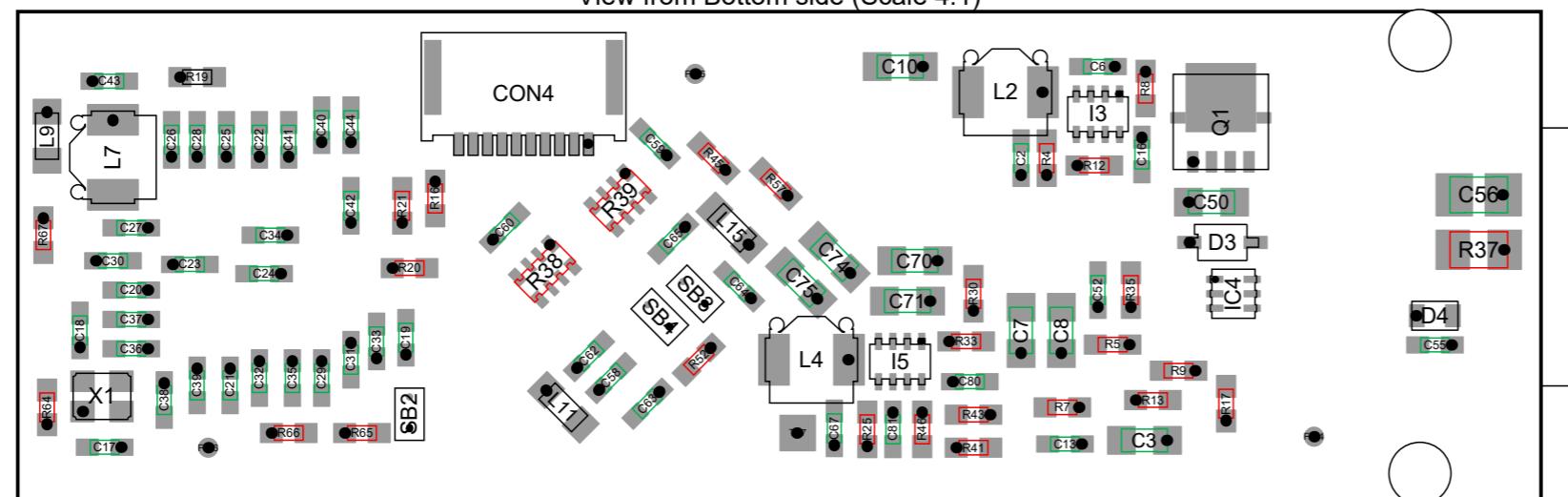
C

D

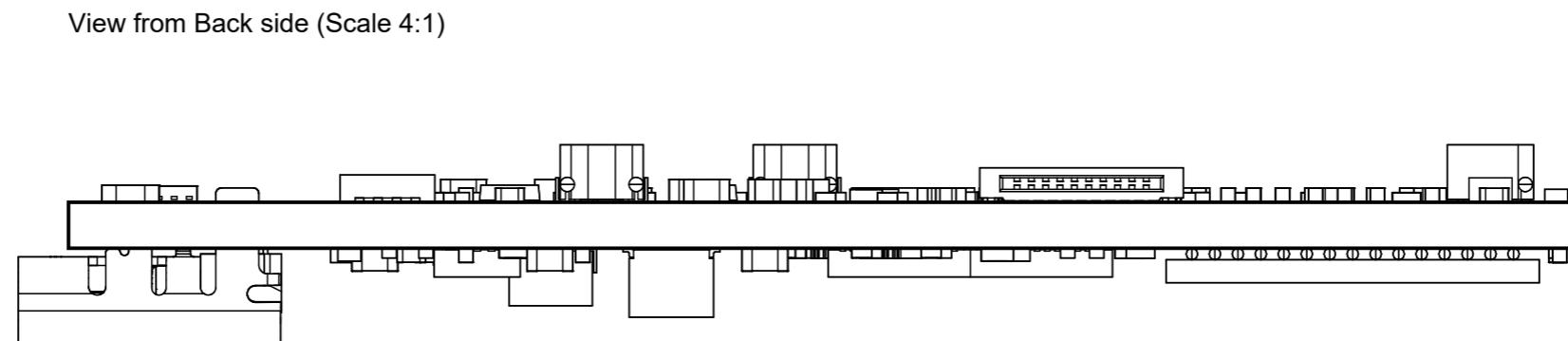
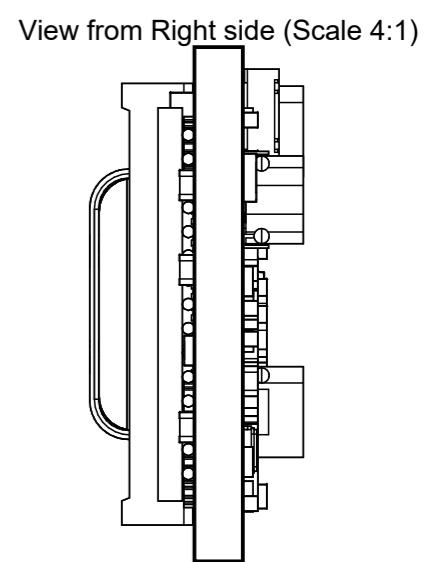
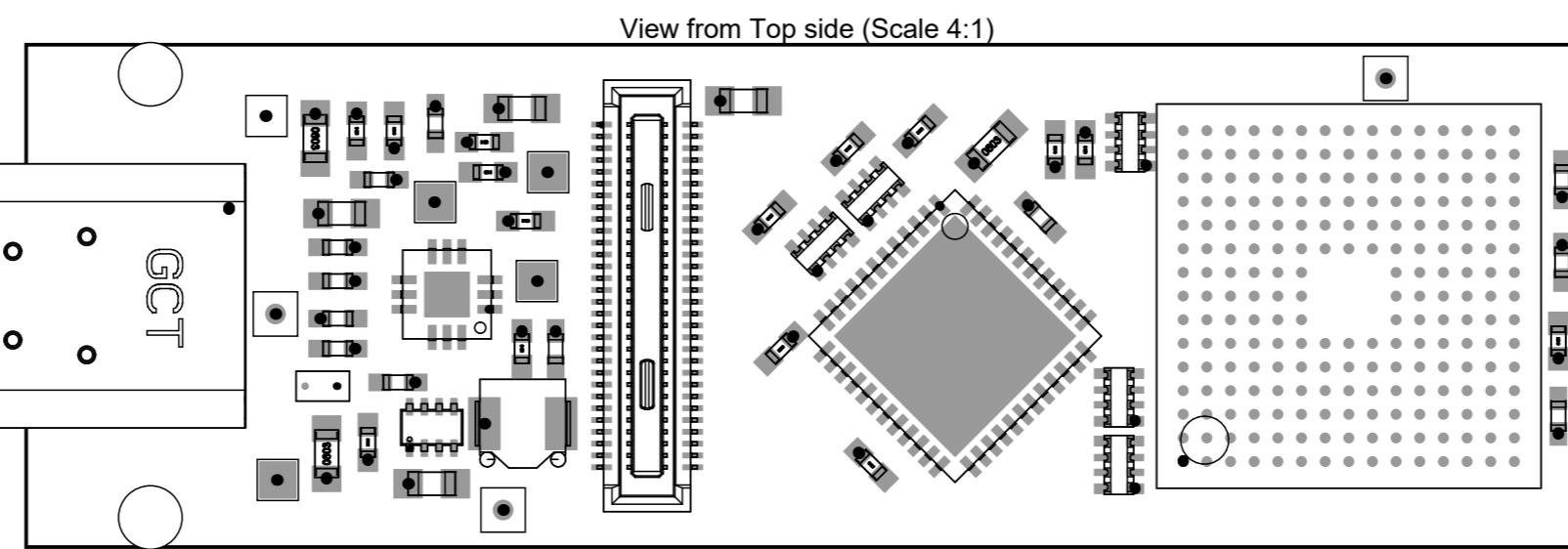
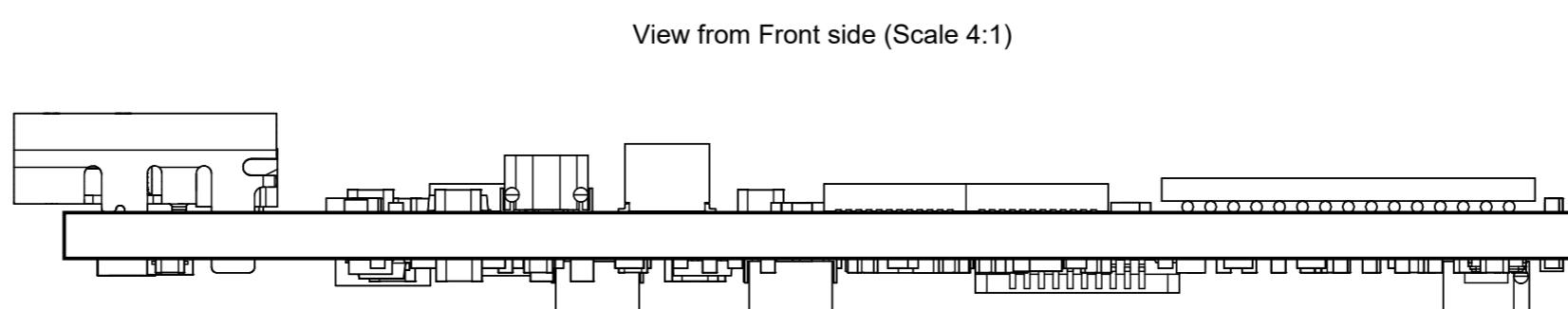
Bill Of Materials - BOT

Line #	Designator	Name	Quantity
	TP7	TP	1
	Q1	STL11NLLH6	1
	L7	SPM3012T-2R2M	1
	L2, L4	SPM3012T-1R0M	2
	SB2, SB3	SB_ON	2
	SB4	SB_OFF	1
	R30, R64, R65	N/A	3
	I3, I5	MP2333H	2
	CON4	JTAG	1
	FID4, FID5, FID6	Fiducial	3
	R38, R39	EXB-N8V472JX	2
	D4	ESDA25P35-1U1M	1
	IC4	ECMF02-2AMX6	1
	L9, L11, L15	BLM18	3
	D3	BAT46WJ,115	1
	R5	560k	1
	R45, R57	120R	2
	R52	100R	1
	C6, C20, C21, C22, C23, C24, C25, C26, C27, C28, C29, C31, C32, C33, C34, C35, C37, C39, C41, C42, C44, C50, C52, C55, C58, C59, C60, C62, C63, C64, C65, C71	100nF	32
	C56	100n/500V	1
	R46	82k	1
	C7, C8, C10, C74, C75	47uF	5
	R9	47k	1
	R41	39k	1
	R43	30k	1
	C3, C70	22uF	2
	R4, R25	20R	2
	C30	20pF	1
	R12	20k	1
	R13	15k	1
	C19	10uF	1
	C17, C18	10pF	2
	R7, R8, R16, R19, R33, R35, R66, R67	10k	8
	X1	7R-32.000MATQ-T	1
	C16, C81	6.8nF	2
	C40	4.7uF	1
	R20, R21	3.3k	2
	R17	3k3	1
	C2, C36, C38, C43, C67	1uF	5
	C13, C80	1nF	2
	R37	1M	1

View from Bottom side (Scale 4:1)



A



A

B

C

D

E

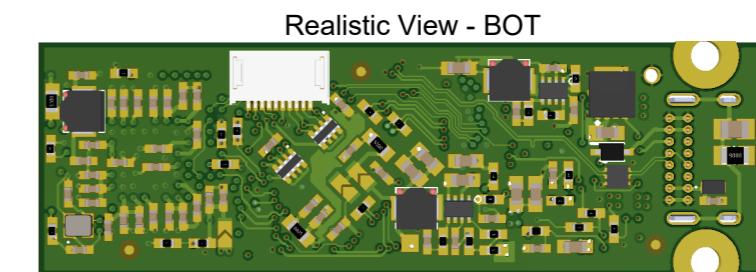
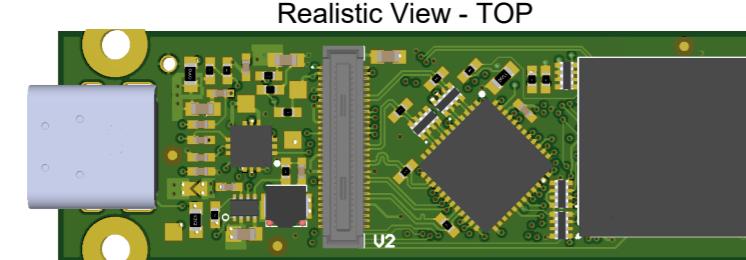
A

B

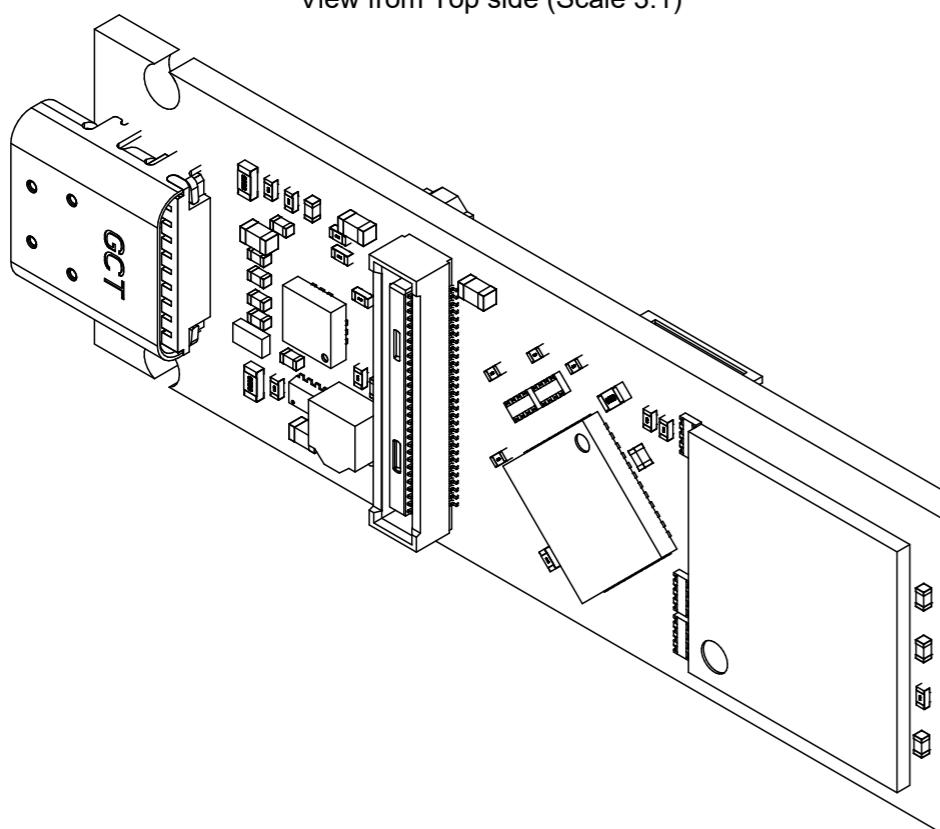
C

D

E



View from Top side (Scale 3:1)



View from Bottom side (Scale 3:1)

