

A

A

B

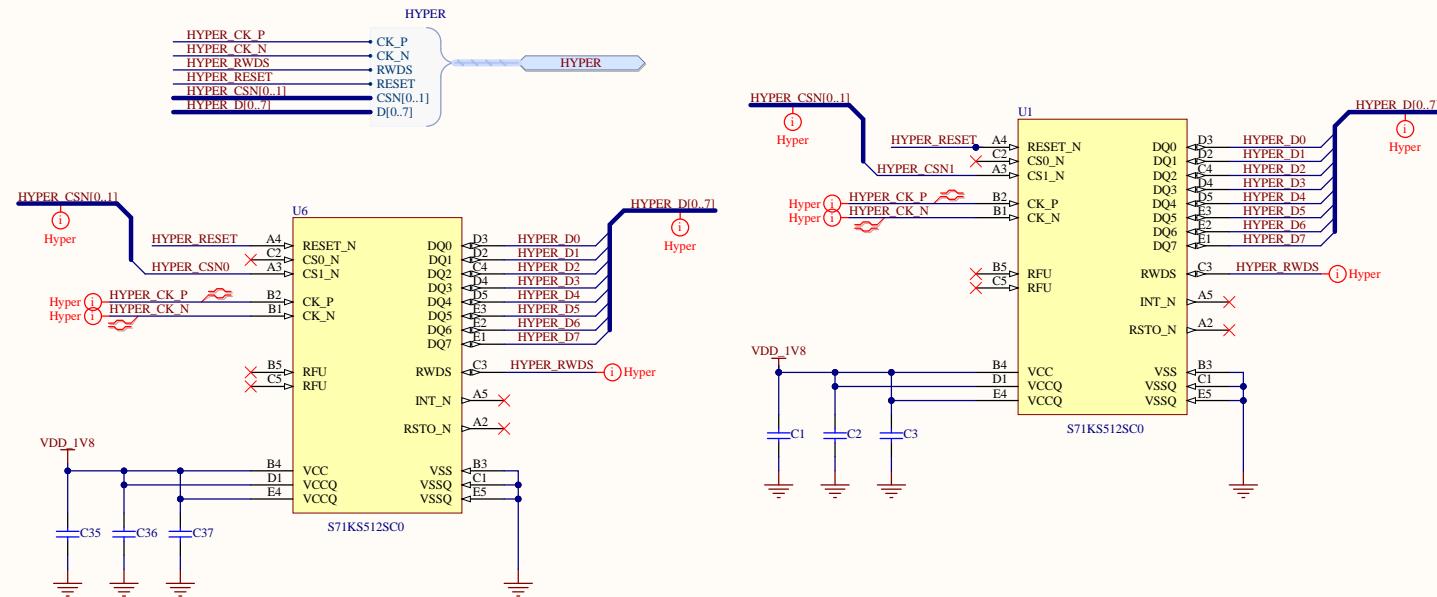
B

C

C

D

D



Drojat

Shaheen PCB Board

Engineering Fundamentals

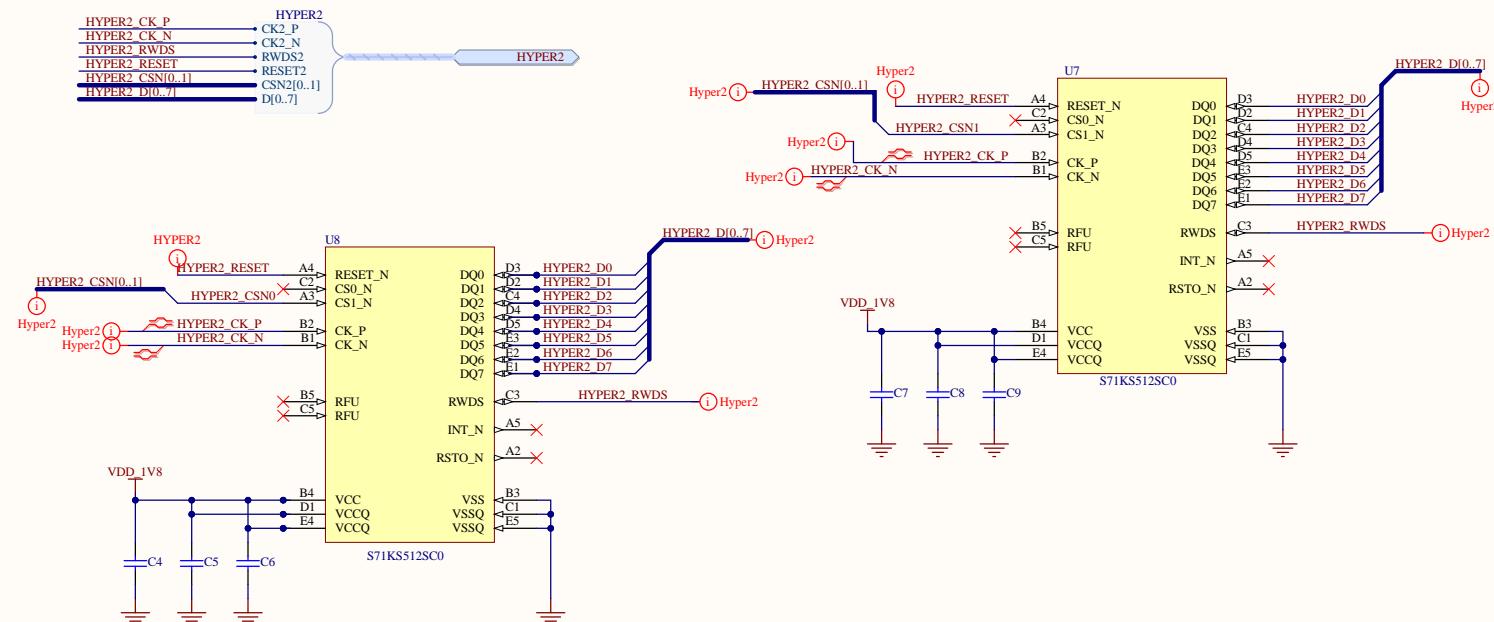
Format: Laboratory EES, MicroLab

Format: Laboratory: EES - Michel Lab

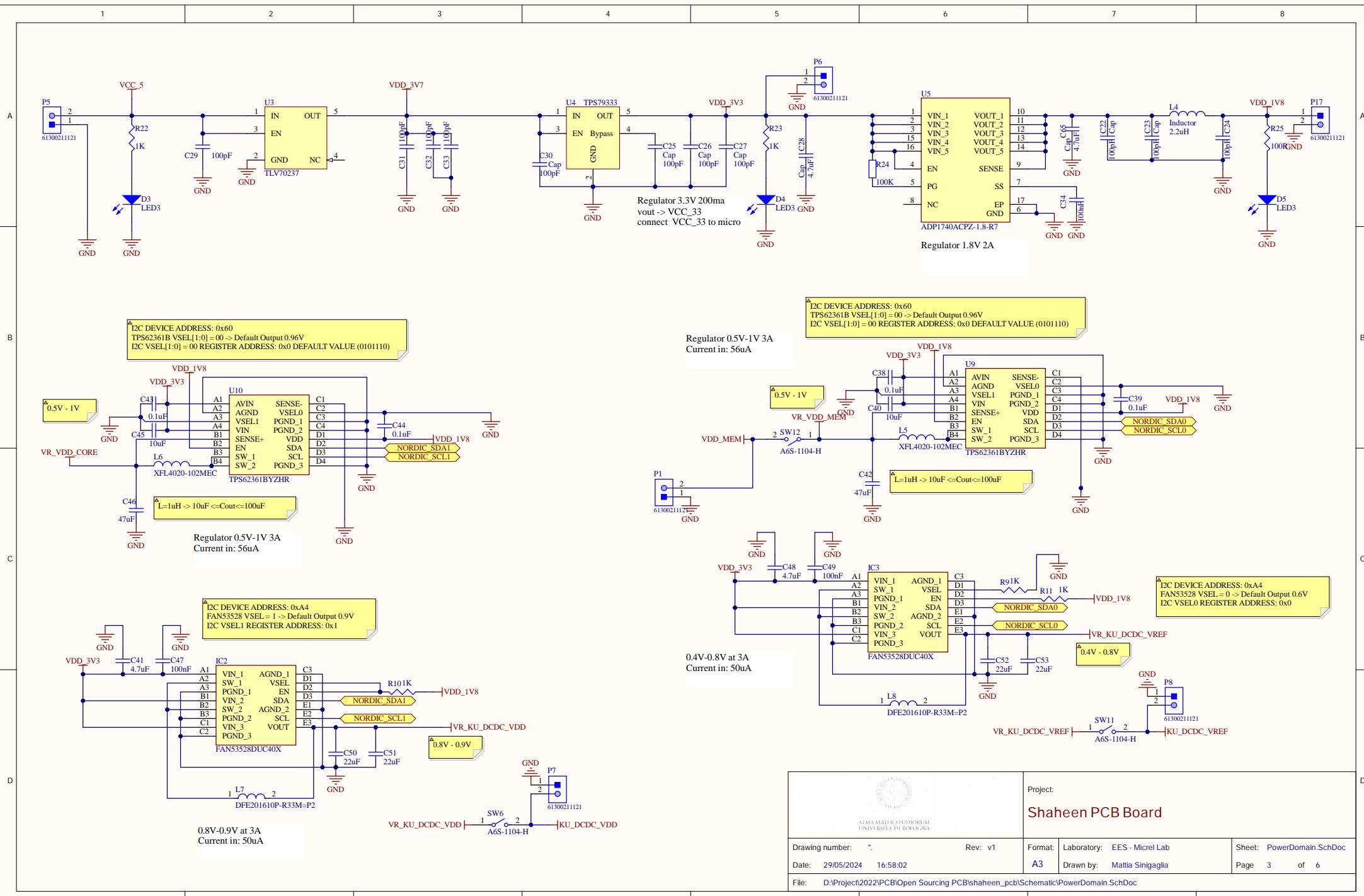
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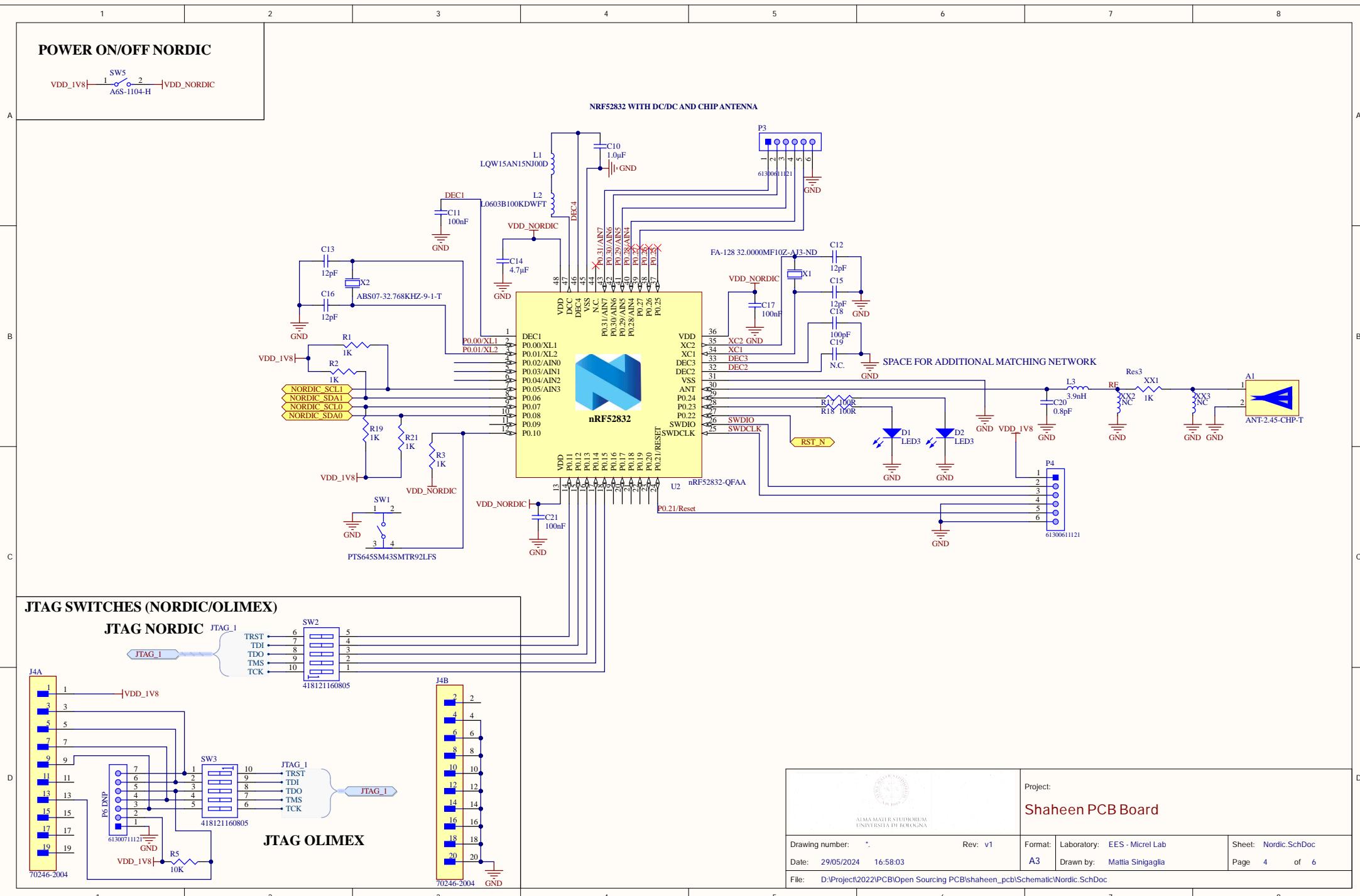
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File: D:\Project\2022\DCP\Open-Sourceing-DCP\checkopen\_ncb\Schematics\UlayerDAM.SchDoc



 ALMA MATER STUDIORUM UNIVERSITÀ DI BOLOGNA	Project: <b>Shaheen PCB Board</b>		
	Drawing number: *	Rev: v1	Format: EES - Micrel Lab
Date: 29/05/2024 16:58:01	A3	Drawn by: Mattia Sinigaglia	Sheet: HyperRAM2.SchDoc
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A

A

B

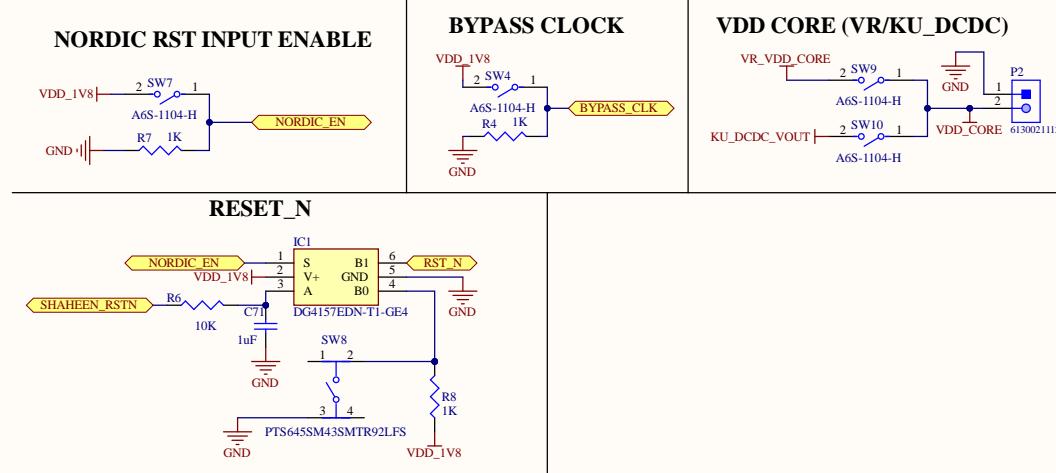
B

C

C

D

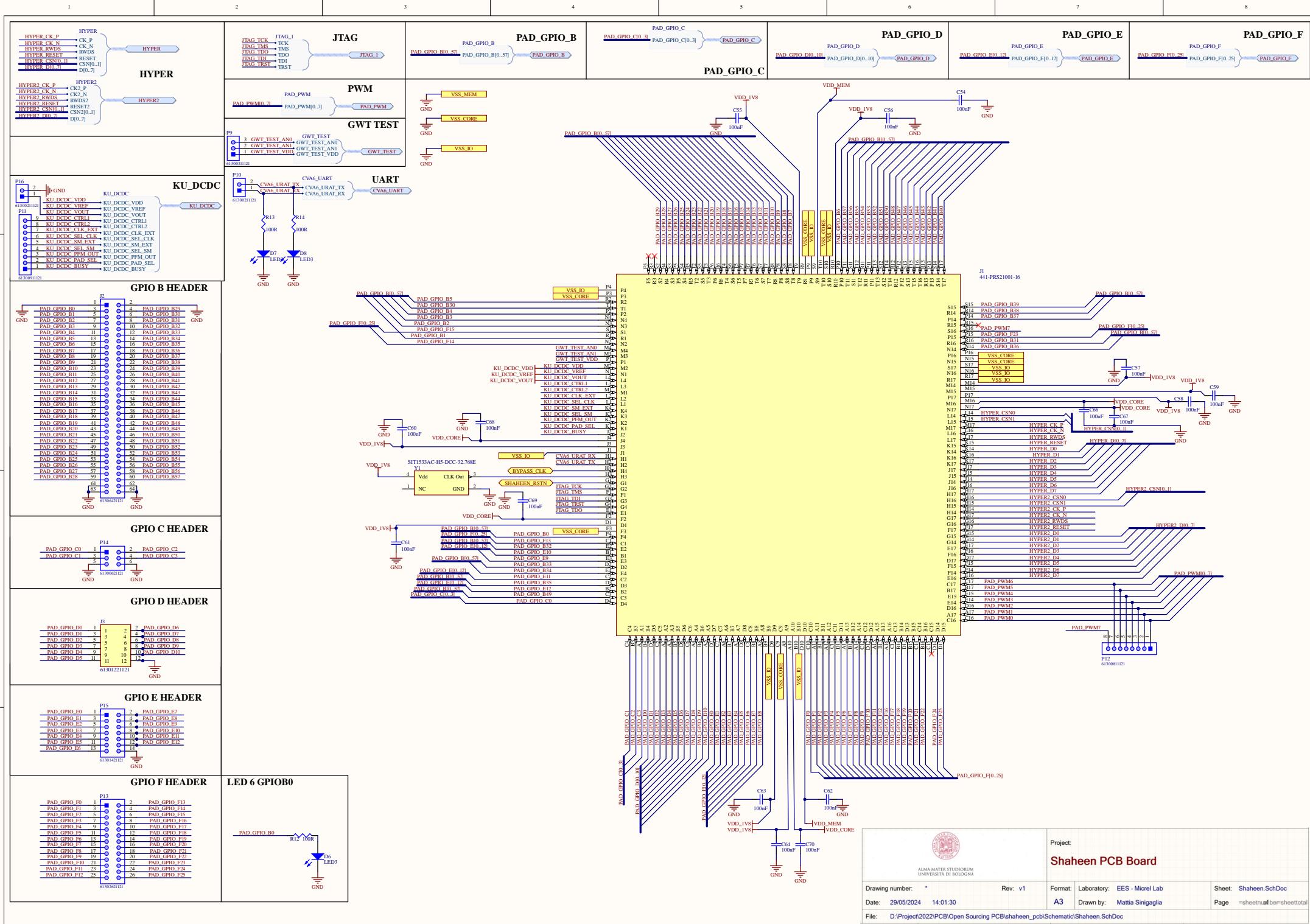
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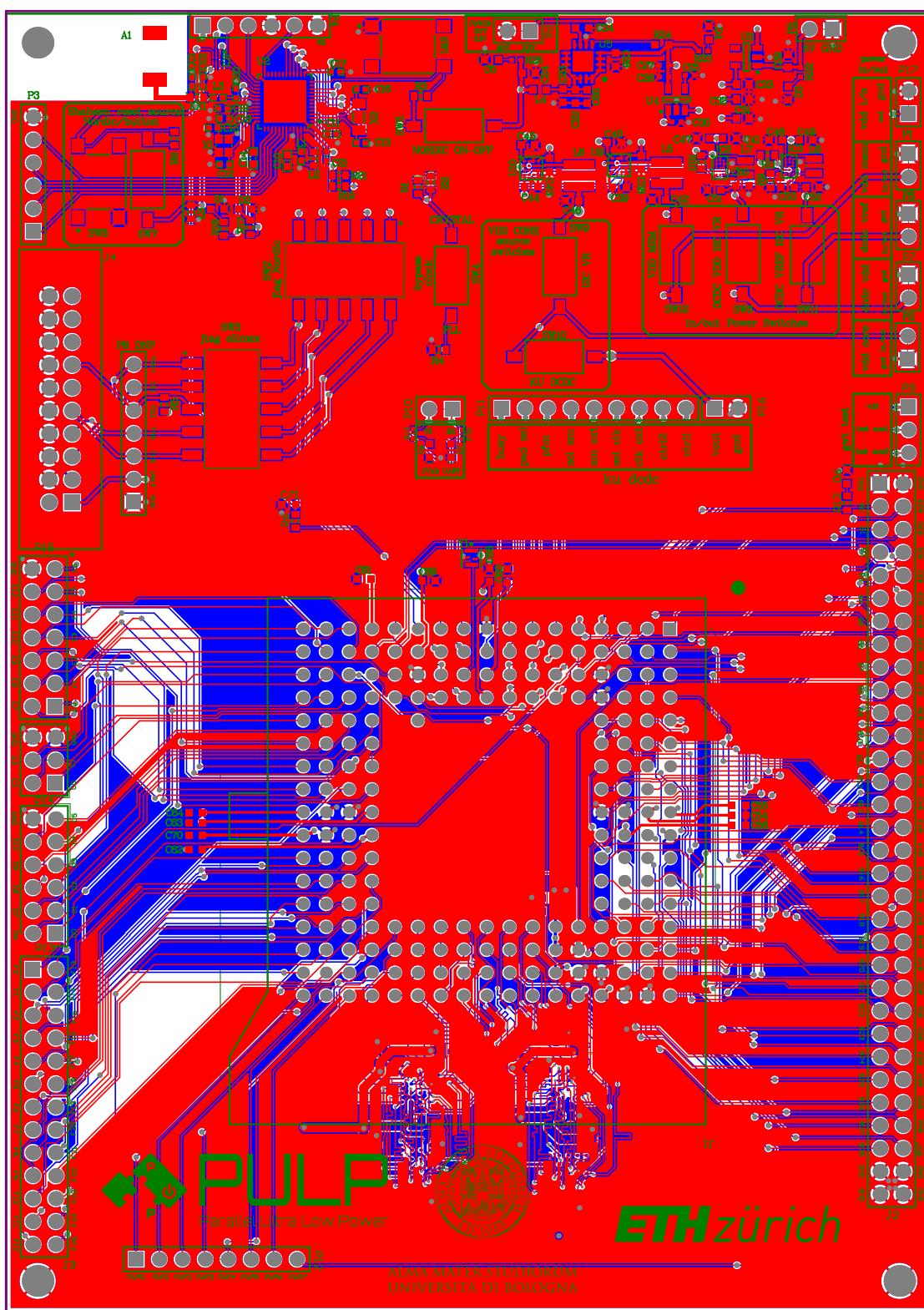


Project:

Shaheen PCB Board

Drawing number: *	Rev: v1	Format: EES - Micrel Lab	Sheet: Switches.SchDoc
Date: 29/05/2024 16:58:03	A3	Drawn by: Mattia Sinigaglia	Page 5 of 6
File: D:\Project2022\PCB\Open Sourcing PCB\shaheen_pcb\Schematic\Switches.SchDoc			





Line #	Name	Description	Designator	Revision ID	Revision State	Revision Status	Quantity	Manufacturer 1	Manufacturer Part Number 1	Manufacturer Lifecycle 1	Supplier 1	Supplier Part Number 1	Supplier Unit Price 1	Supplier Subtotal 1
ANT-2.45-CHPT	Antenna		A1		Not managed		1							
	VJ0603Y104KXNA0	[NoValue], 100nF	C1, C2, C3, C4, C5, C6, C7, C8, C9, C35, C36, C37		Unknown server		12	Mishay Vitrionix	VJ0603Y104KXXXXC	Volume Production				
	1.0μF	Capacitor, X7R, ±10%	C10		Not managed		1							
	100nF	Capacitor, X7R, ±10%	C11, C17, C21		Not managed		3							
	12pF	Capacitor, NP0, ±2%	C12, C13, C15, C16		Not managed		4							
	4.7μF	Capacitor, X5R, ±10%	C14		Not managed		1							
	100pF	Capacitor, NP0, ±5%	C18		Not managed		1							
	N.C.	Not mounted	C19		Not managed		1							
	0.8pF	Capacitor, NP0, ±5%	C20		Not managed		1							
	Cap	Capacitor	C22, C23, C24, C25, C26, C27, C30		Not managed		7							
	Cap	Capacitor	C28, C41, C48, C55		Not managed		4							
	Cap Semi	Capacitor (Semiconductor SIM Model)	C29, C31, C32, C33		Not managed		4							
		Capacitor	C34		Not managed		1							
	Cap	Capacitor	C38, C39, C43, C44		Not managed		4							
	Cap	Capacitor	C40, C45		Not managed		2							
	Cap	Capacitor	C42, C46		Not managed		2							
	Cap	Capacitor	C47, C49, C48, C50, C51, C52, C53, C56, C57, C58, C59, C60, C61, C62, C63, C64, C66, C67, C68, C69, C70		Not managed		18							
	Cap	Capacitor	C50, C51, C52, C53		Not managed		4							
	Cap	Capacitor	C71		Not managed		1							
	LED3	Typical BLUE SIC LED	D1, D2, D3, D4, D5, D6, D7, D8		Not managed		8							
DG1157EDN-T1-GE4	Integrated Circuit	I1			Not managed		1							
FXN56328UDCA0X	Integrated Circuit	I2, I3			Not managed		2							
441-FRS2100T-16	Connector	J1			Not managed		1							
B1306421121	THT Vertical Pin Header WR-PHD, Pitch 2.54 mm, Dual Row, 64 pins	J2			Unknown server		1	Wurth Electronics	61306421121	Volume Production				
B1301221121	Connector	J8			Not managed		1							
70246-2004	CONN-HEADER-VERT-20POS 2.54MM	J4			Unknown server		1							
LQW15AN15NJ0D	High frequency chip inductor ±10%	L1			Not managed		1							
L0093B100KDWF	Chip inductor, DC,min = 50mA ±20%	L2			Not managed		1							
3.9nH	High frequency chip inductor ±25%	L3			Not managed		1							
Inductor		L4			Not managed		1							
XFL4020-102MEC	Shielded Power Inductor, 1.4H, 64 MHz, -40 to 125 degC, 2-Rh SMD, RoHS, Tape and Reel	L5, L6			Unknown server		2	Coilcraft	XFL4020-102MEC					
DFE201610P-R33M-P2	Shielded Wirewound Inductor 0.33uH 20% 350mA 0.034Ω 0.0806 (2016)	L7, L8			Unknown server		2	Murata	DFE201610P-R33M-P2	Volume Production				
B1300211121	THT Vertical Pin Header WR-PHD, Pitch 2.54 mm, Single Row, 2 pins	P1, P2, P5, P6, P7, P8, P10, P16, P17			Unknown server		9	Wurth Electronics	61300211121	Volume Production				
	THT Vertical Pin Header WR-PHD, Pitch 2.54 mm, Single Row, 6 pins	P3, P4			Unknown server		2	Wurth Electronics	61300611121	Volume Production				
B1300711121	THT Vertical Pin Header WR-PHD, Pitch 2.54 mm, Single Row, 7 pins	P6 DNP			Unknown server		1	Wurth Electronics	61300711121	Volume Production				
B1300311121	THT Vertical Pin Header WR-PHD, Pitch 2.54 mm, Single Row, 3 pins	P9			Unknown server		1	Wurth Electronics	61300311121	Volume Production				
B1300911121	THT Vertical Pin Header WR-PHD, Pitch 2.54 mm, Single Row, 9 pins	P11			Unknown server		1	Wurth Electronics	61300911121	Volume Production				
B1300811121	THT Vertical Pin Header WR-PHD, Pitch 2.54 mm, Single Row, 8 pins	P12			Unknown server		1	Wurth Electronics	61300811121	Volume Production				
B1302621121	THT Vertical Pin Header WR-PHD, Pitch 2.54 mm, Dual Row, 26 pins	P13			Unknown server		1	Wurth Electronics	61302621121	Volume Production				
B1300621121	THT Vertical Pin Header WR-PHD, Pitch 2.54 mm, Dual Row, 6 pins	P14			Unknown server		1	Wurth Electronics	61300621121	Volume Production				
B1301421121	THT Vertical Pin Header WR-PHD, Pitch 2.54 mm, Dual Row, 14 pins	P15			Unknown server		1	Wurth Electronics	61301421121	Volume Production				
0R	Resistor	R1, R2, R3, R4, R7, R8, R9, R10, R11, R19, R21			Not managed		11							
0R	Resistor	R5, R6			Not managed		2							
Ras3	Resistor	R12, R13, R14, R17, R16, R25			Not managed		6							
Ras3	Resistor	R22, R23, XX1			Not managed		3							
		R24			Not managed		1							
PTIS45SM3MSMT92LFS	SWITCH TACTILE SPST NO.0.05A 5V	SW1, SW2			Unknown server		2	ITTC&K	PTIS45SM3MSMT92LFS	Volume Production				
418121160805	WS-QS9/2.54 mm small compact SMD Dip Switch with top tape	SW2, SW3			Unknown server		2	Wurth Electronics	418121160805	Volume Production				
	A6S-1104-H	SWITCH SLIDE DIP SPST25MA24V	SW4, SW5, SW6, SW7, SW9, SW10, SW11, SW12		Unknown server		8	Omrone	A6S-1104-H	Volume Production				
S71K9512SC0		U1, U6, U7, U8			Not managed		4							
nRF52832-QFAA	Multi-protocol Bluetooth Low Energy, ANT and 2.4GHz proprietary system-on-chip	U2			Not managed		1							
TLV70237	Linear Regulator	U3			Not managed		1							
TPS79333	Linear Regulator	U4			Not managed		1							
	LDO Voltage Regulators 2ALD0 Fix Vout Family	U5			Not managed		1							
ADP1740ACP21.8-R7		U6			Not managed		1							
TPS26162-IR	Integrated Circuit	U8, U10			Not managed		2							
FA-128.32.0000MF10Z-A8-ND	XITAL-SMD 2016, 32MHz, Cl=8pF, Total Tot: ±40ppm	X1			Not managed		1							
A8S07-32.768kHz-9.1-T	XITAL-SMD 3215, 32.768kHz, Cl=9pF, Total Tot: ±50ppm	X2			Not managed		1							
NC	Not mounted	XX2, XX3			Not managed		2							
ST1533AC-H5-DCC-32.768E	MEMS OSC XO 32.768kHz LVCMOS	Y1			Unknown server		1	STime	ST1533AC-H5-DCC-32.768E	Volume Production				