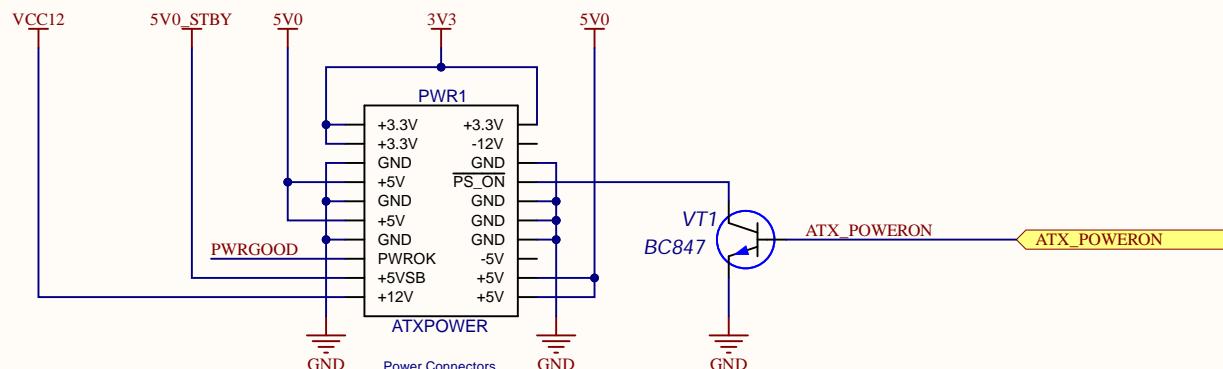
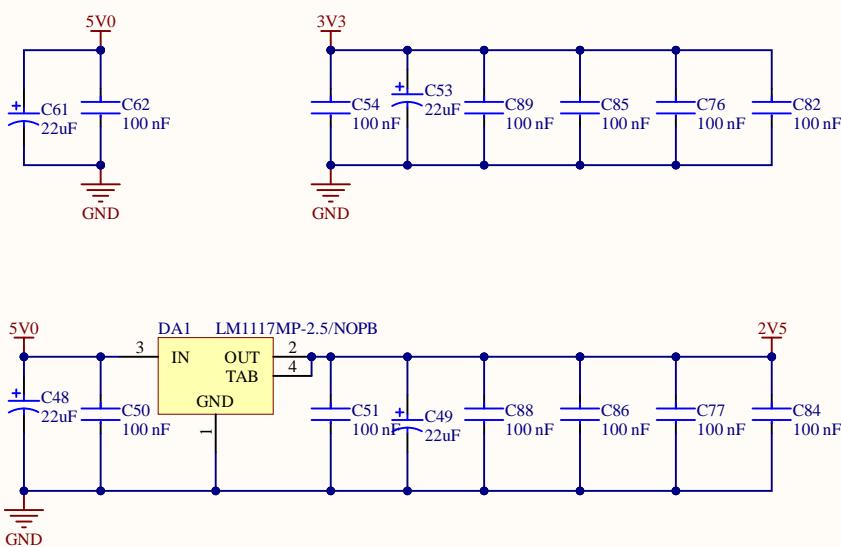


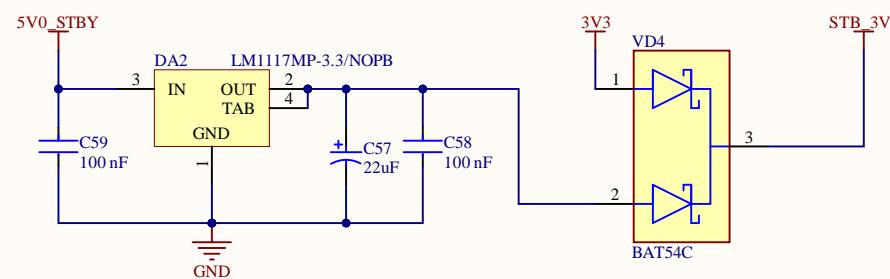
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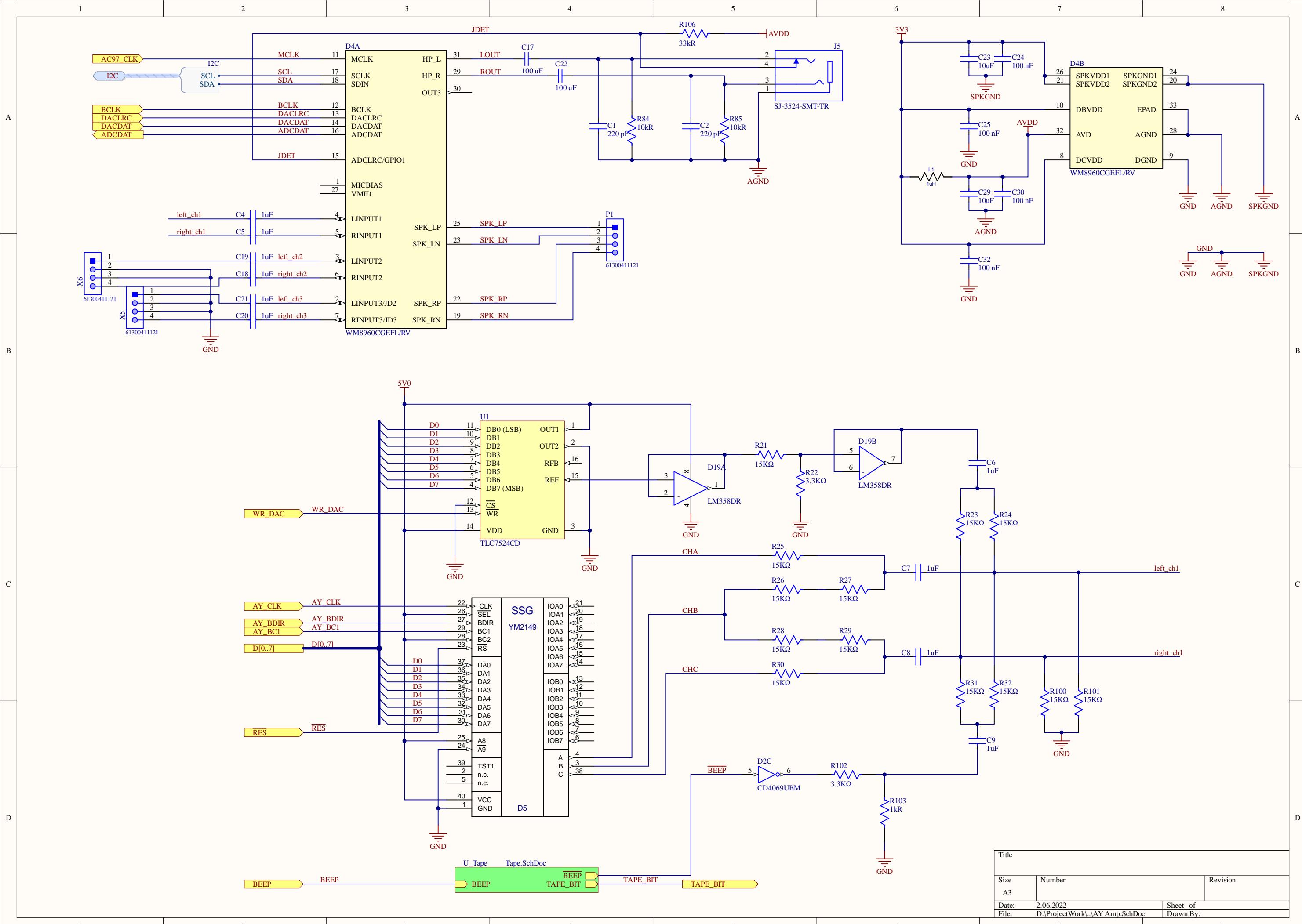


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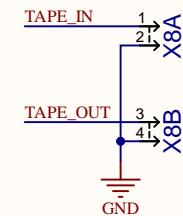
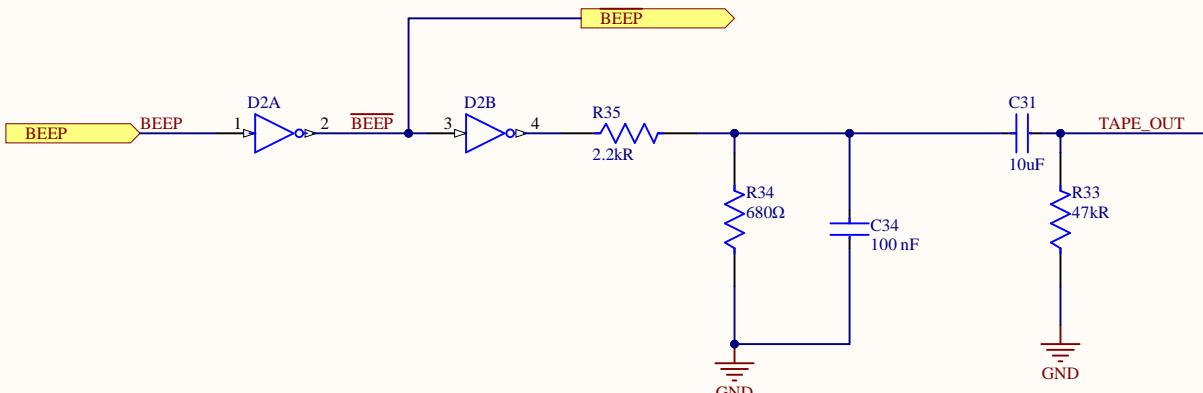


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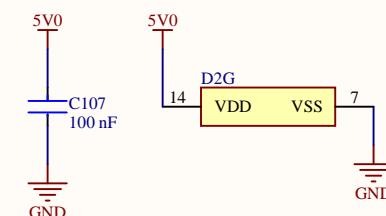
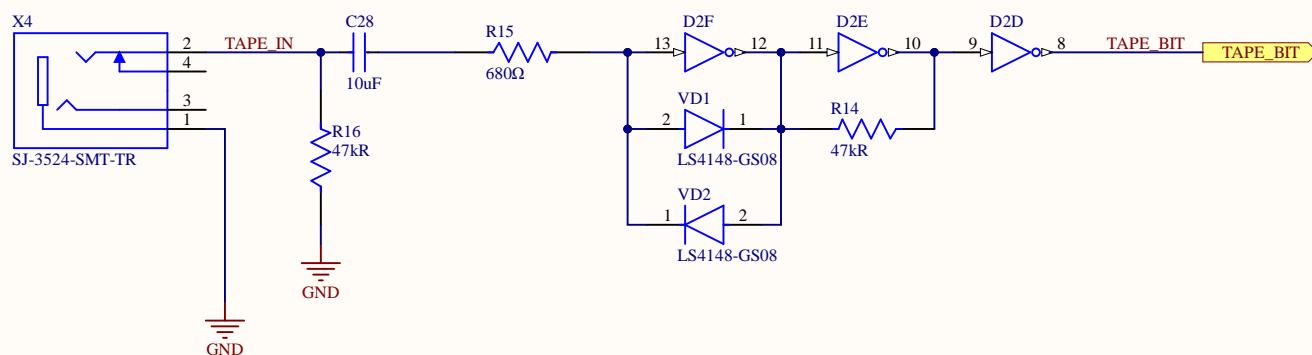
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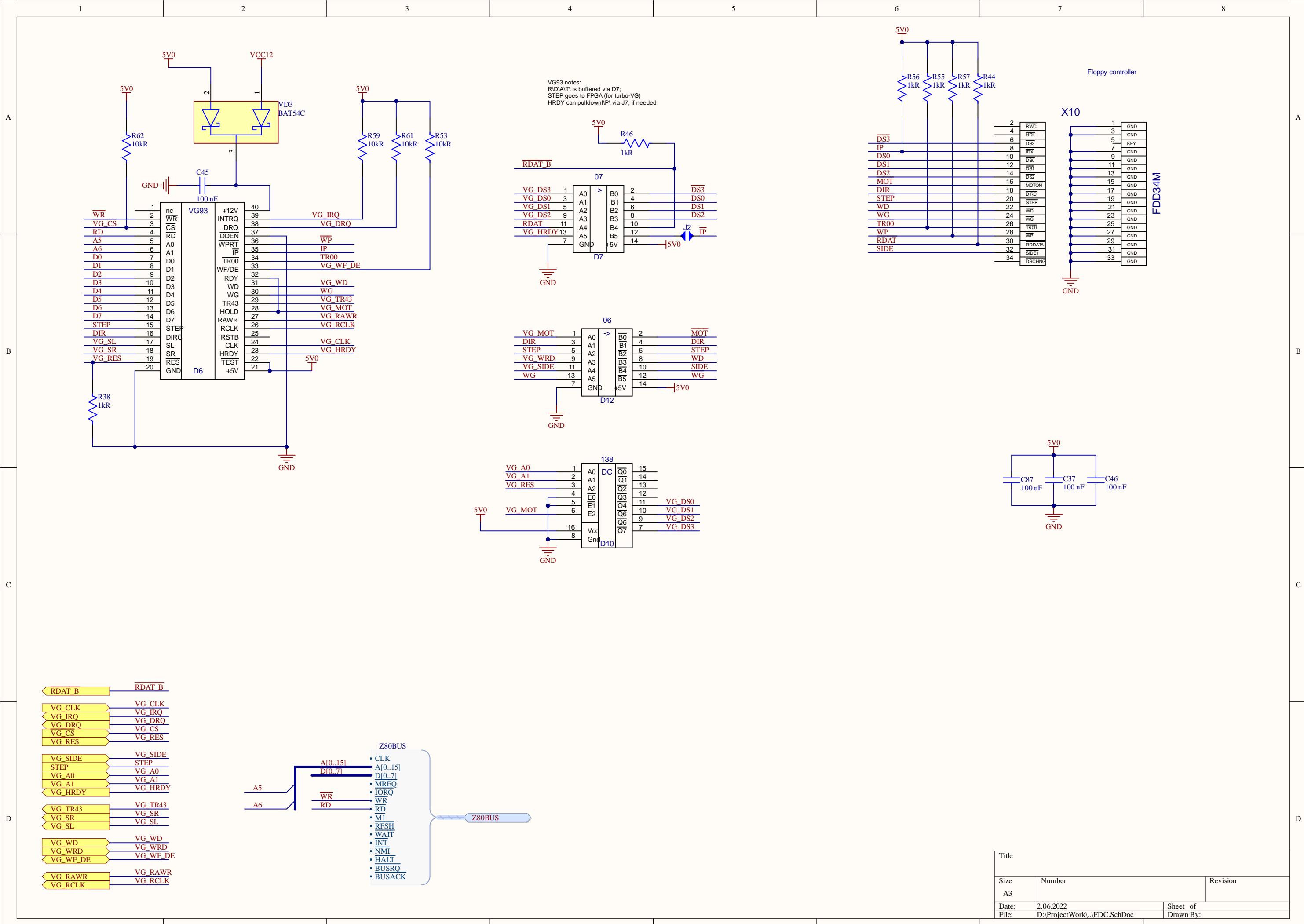


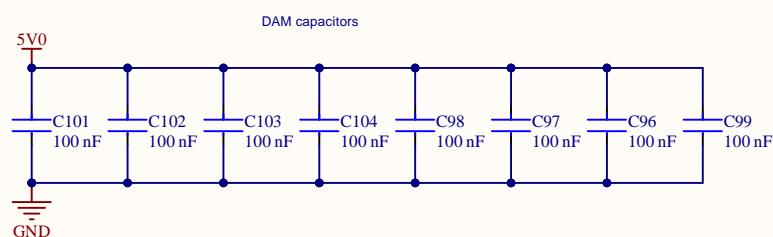
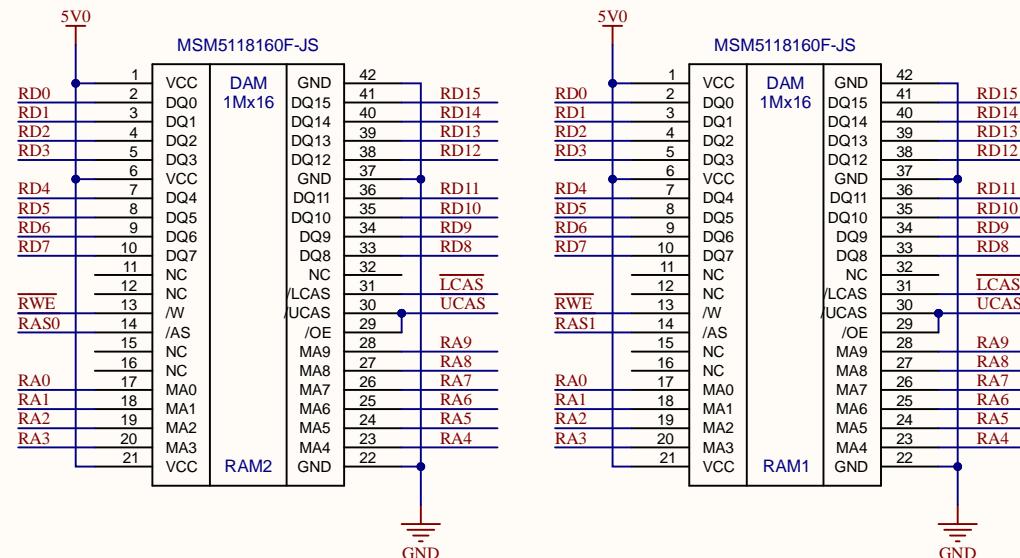
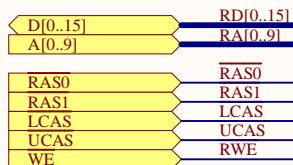
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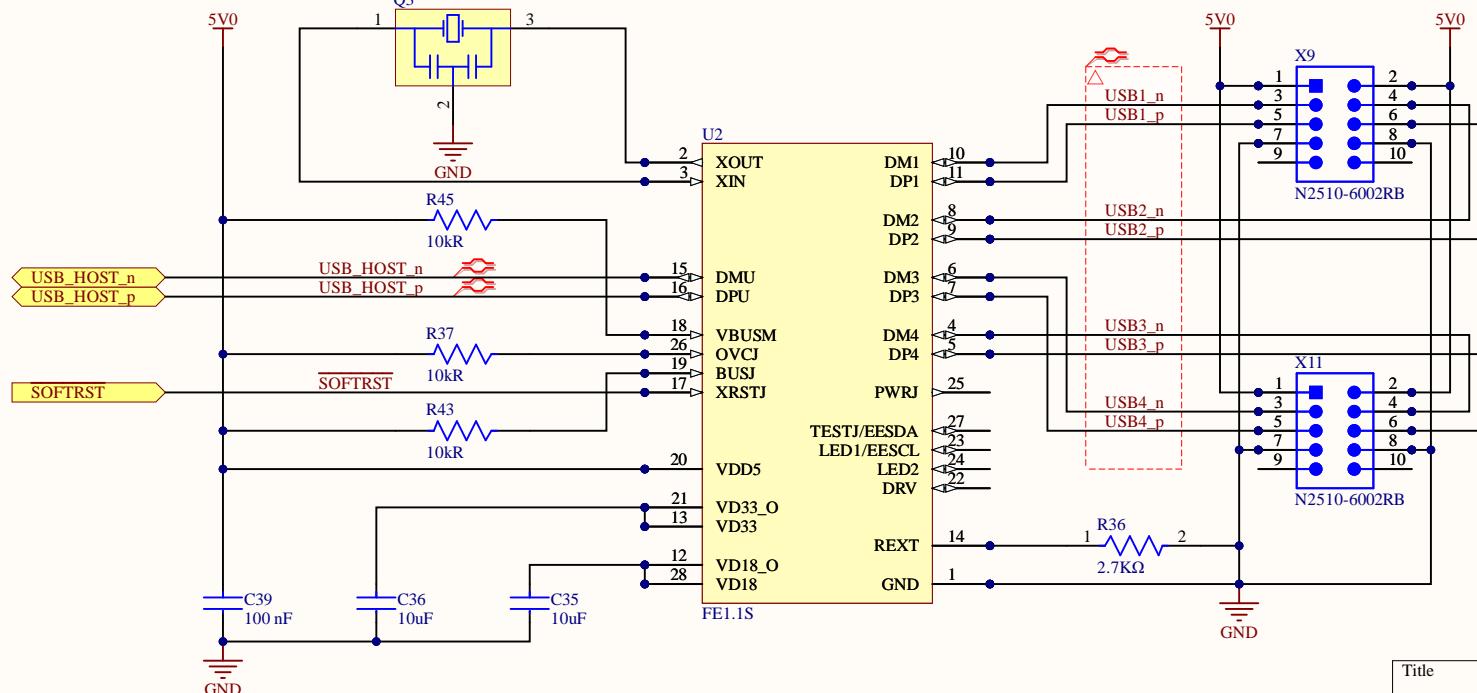
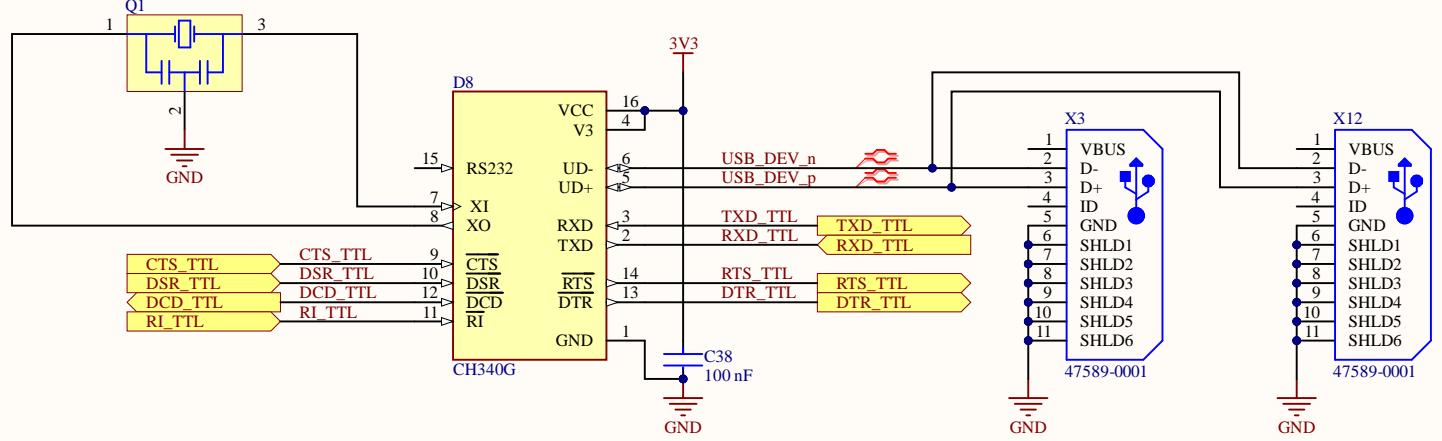
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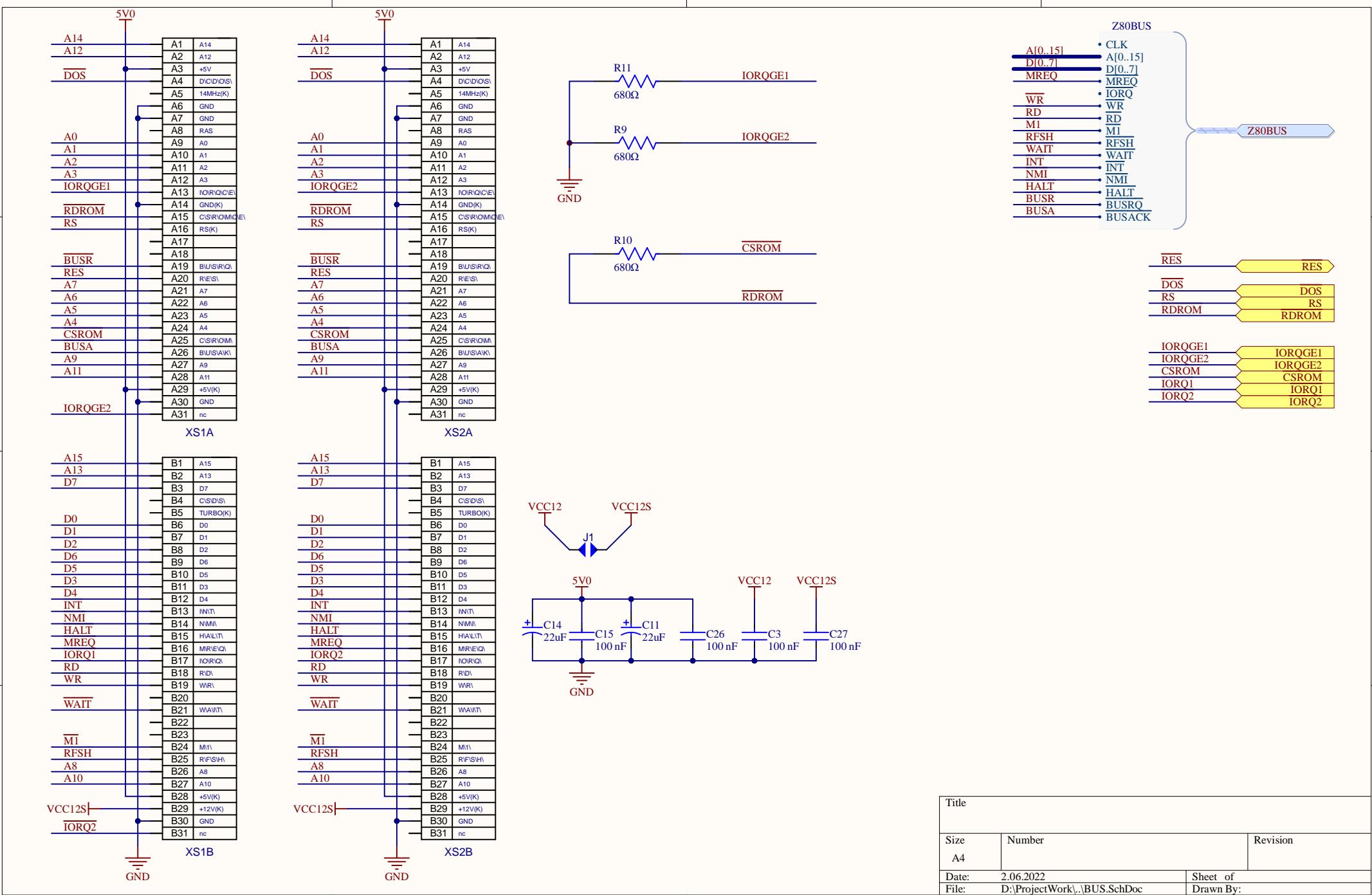


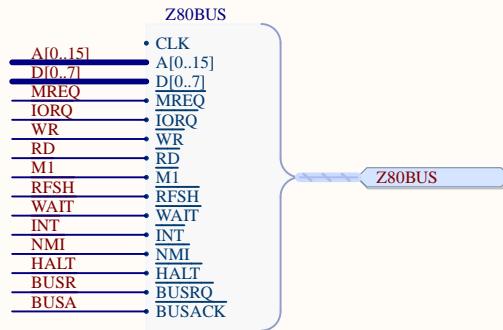
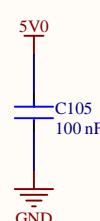
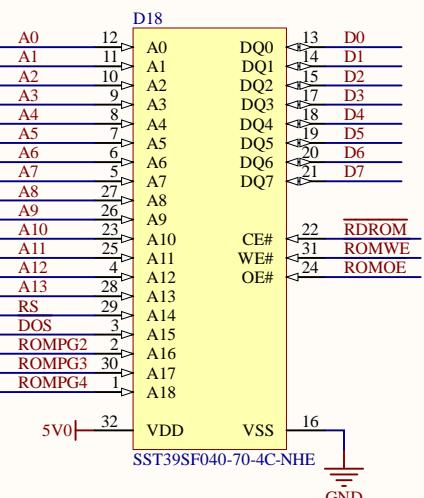
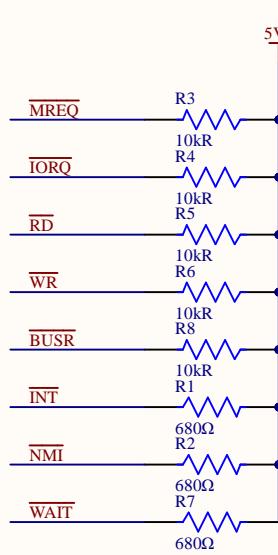
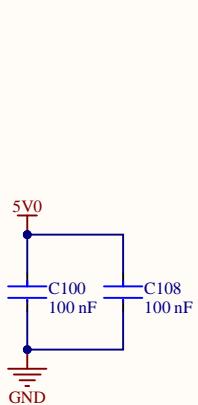
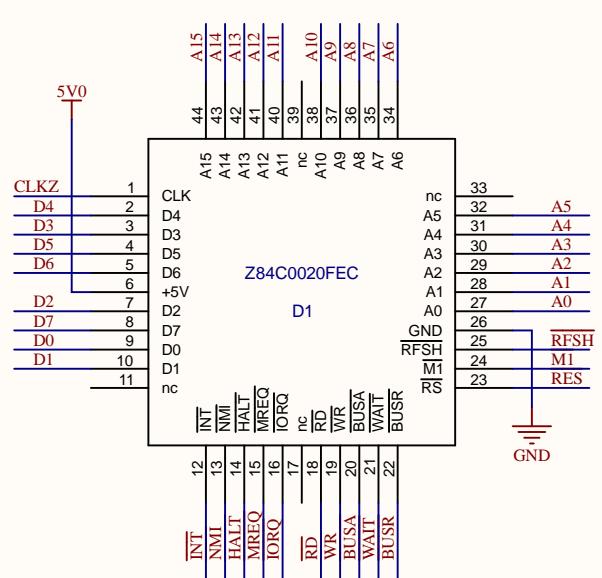
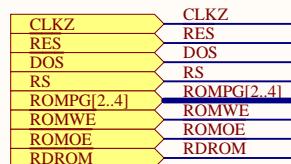


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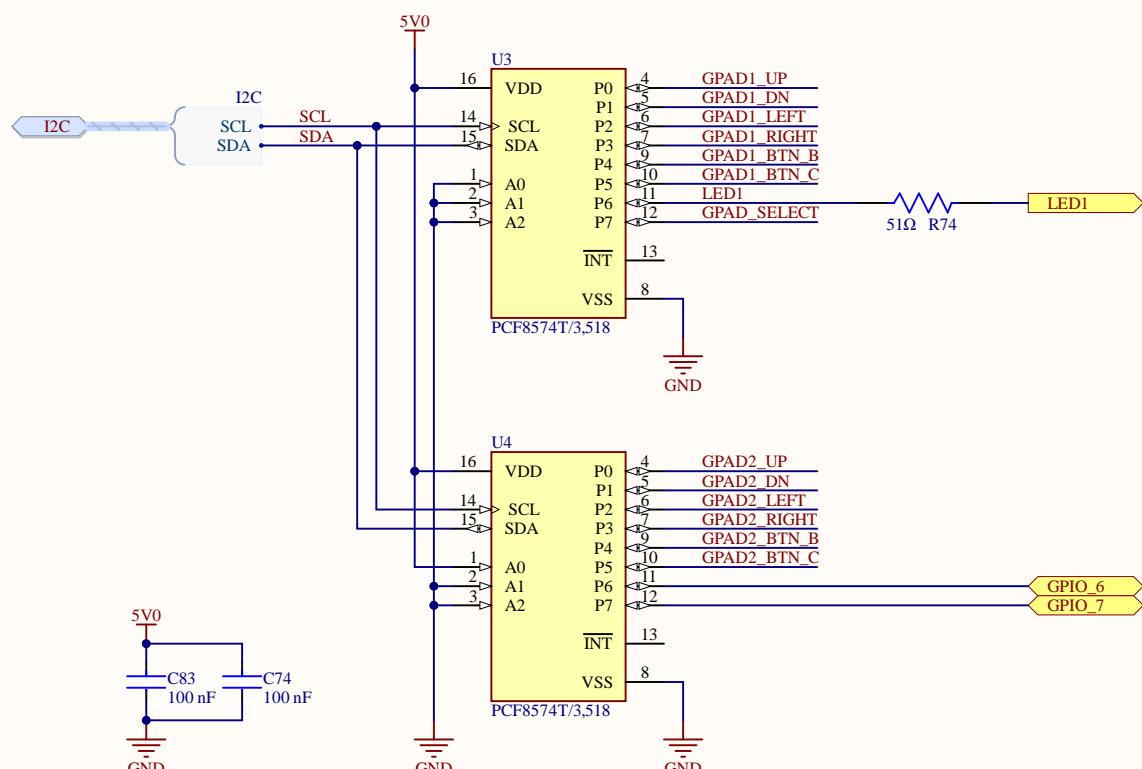




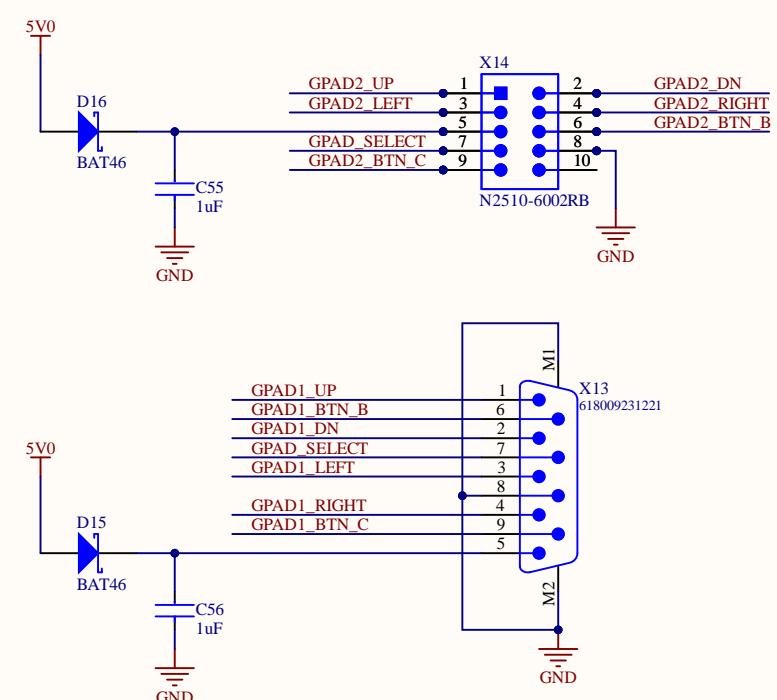
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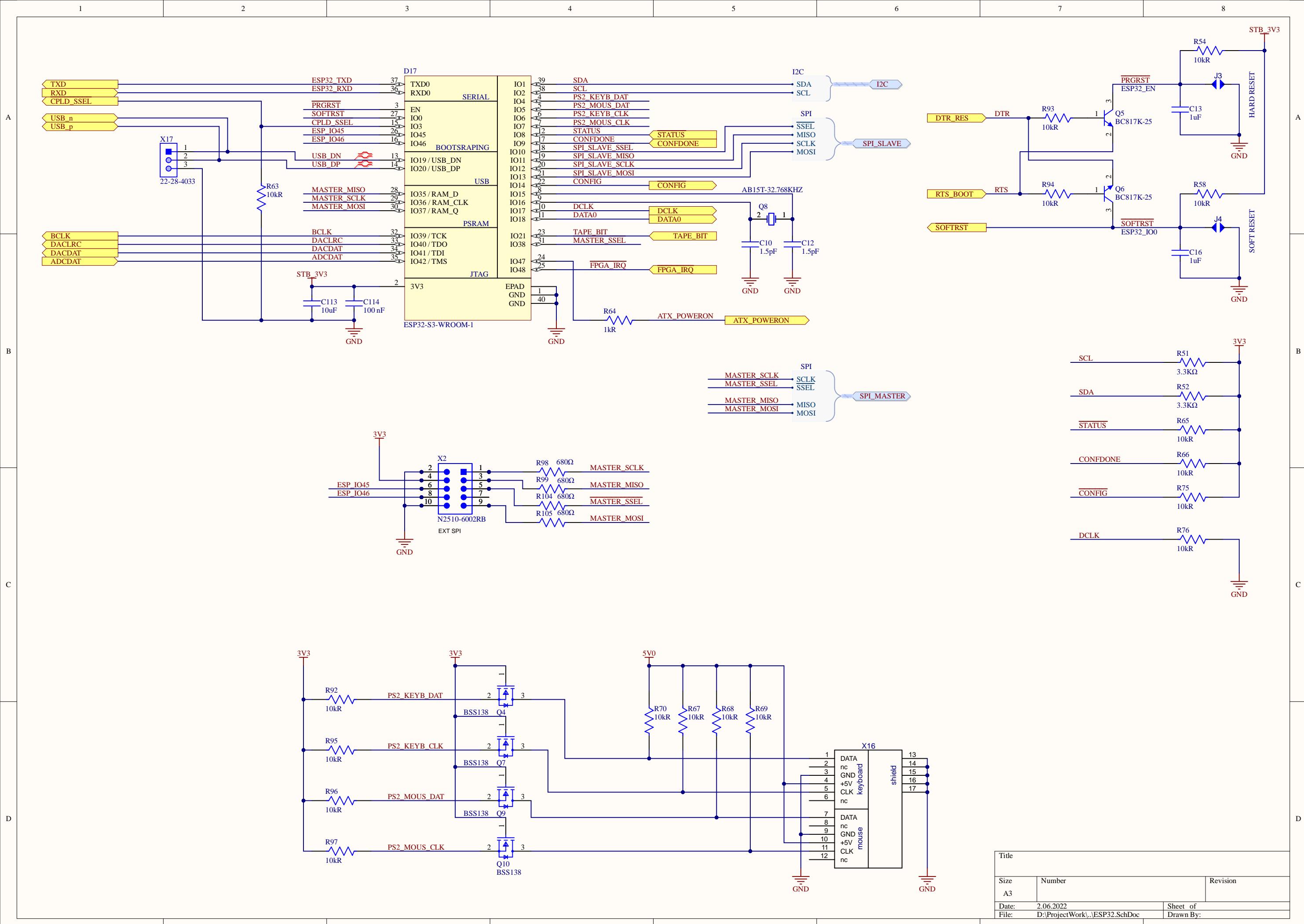


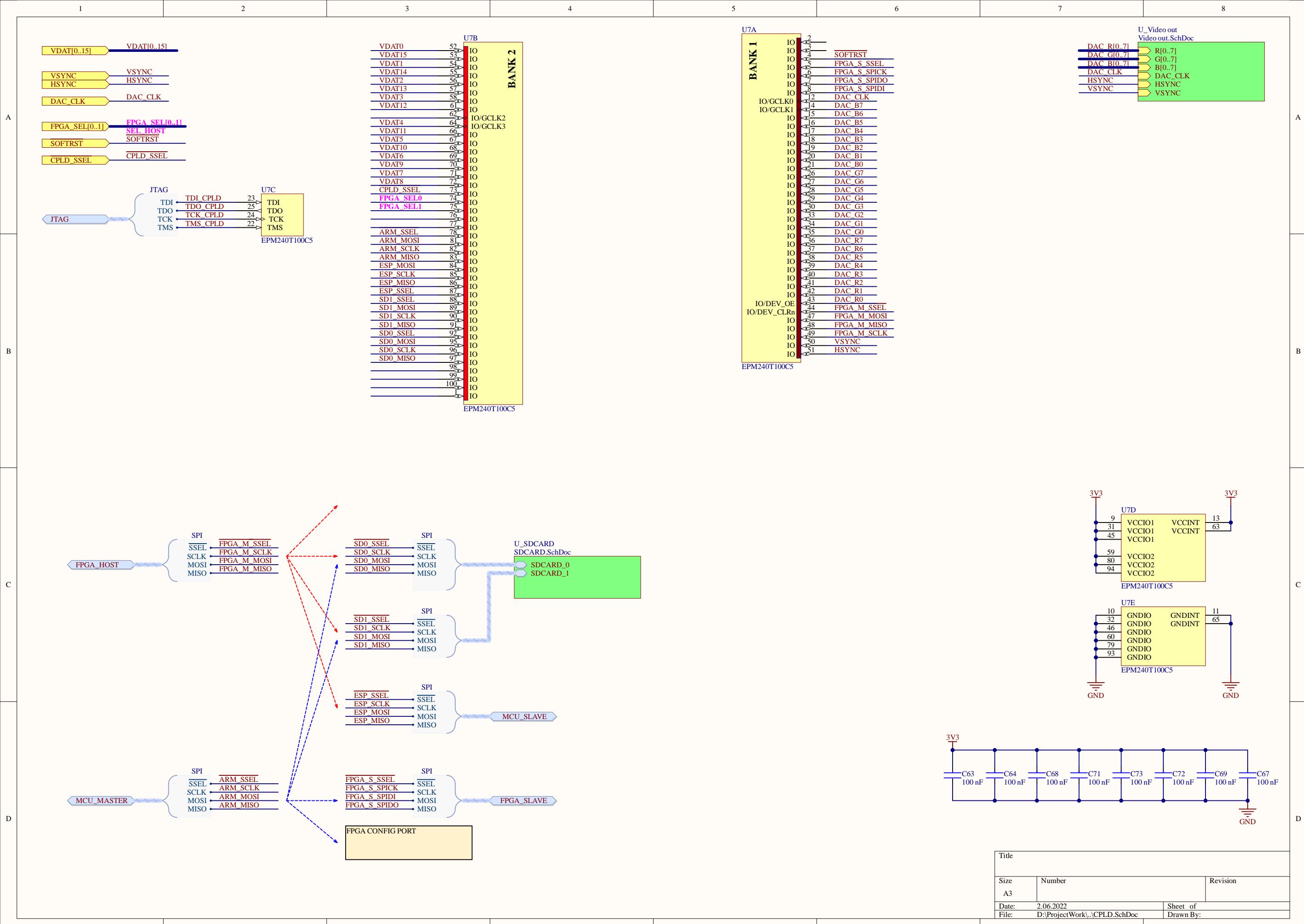
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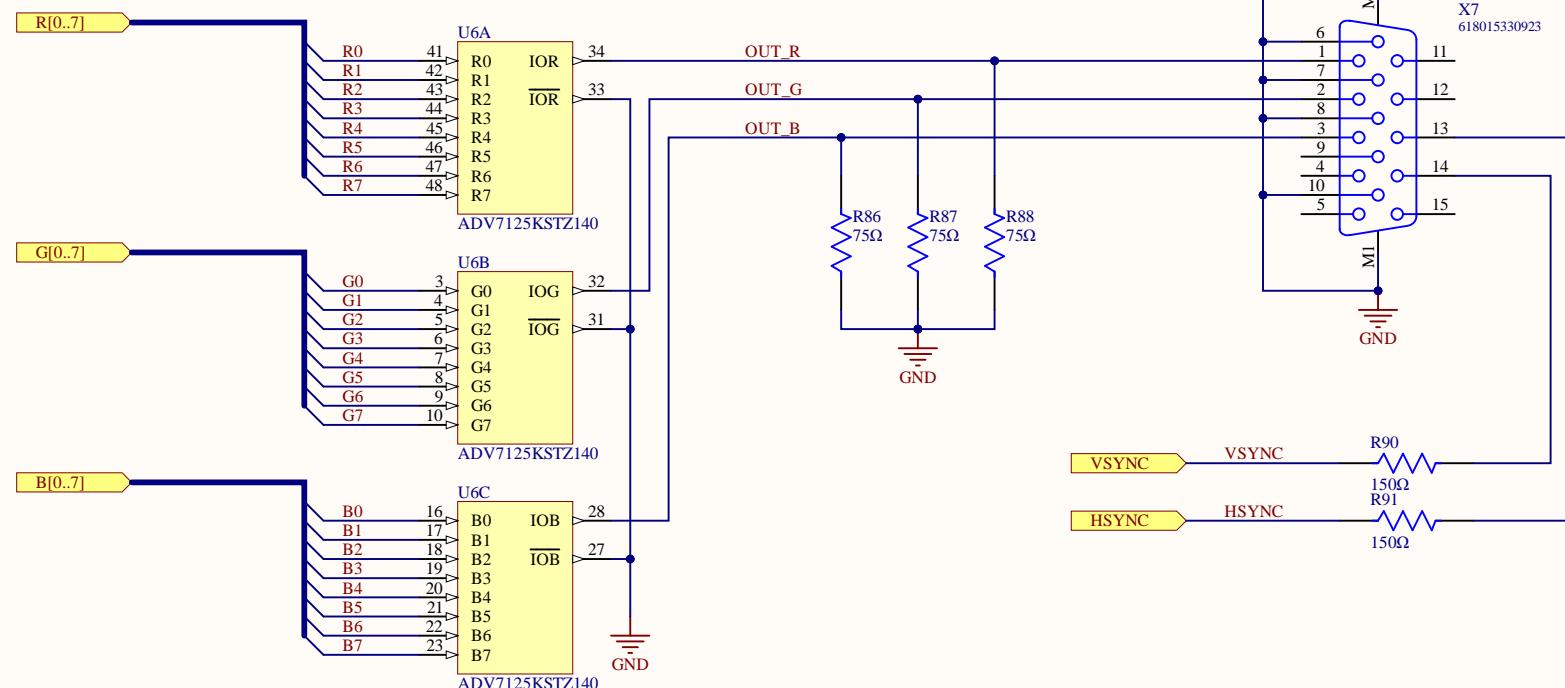
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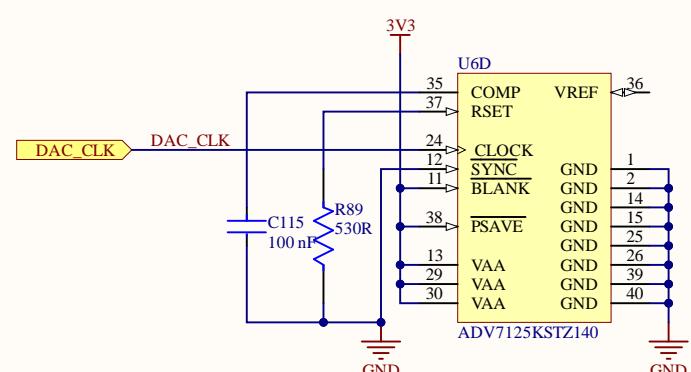




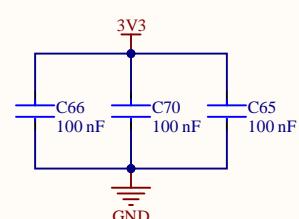
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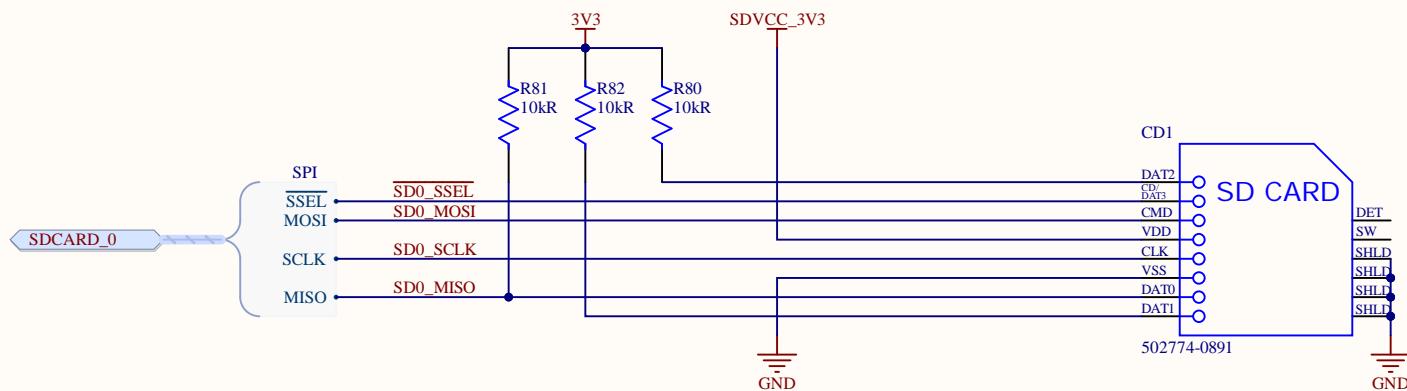
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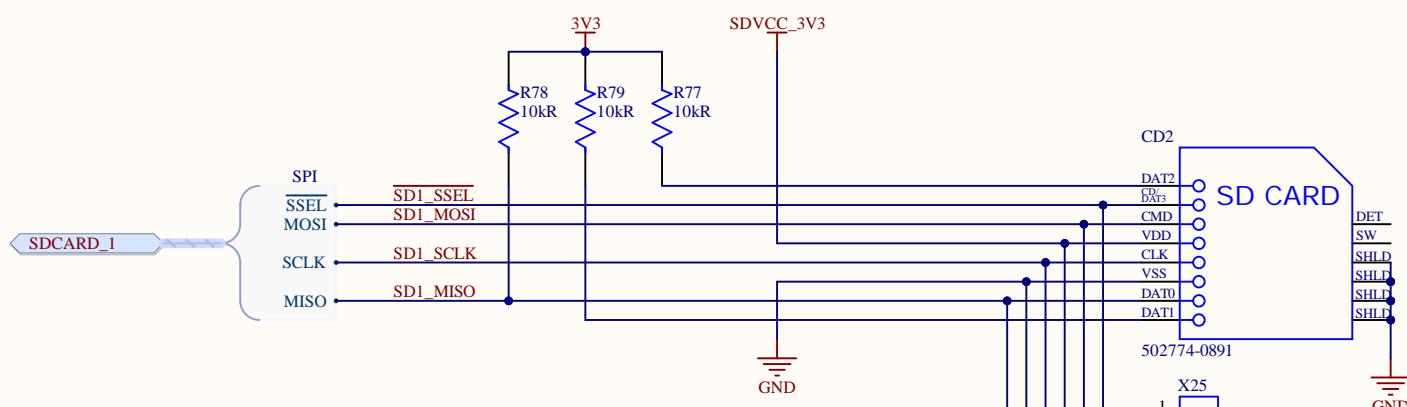
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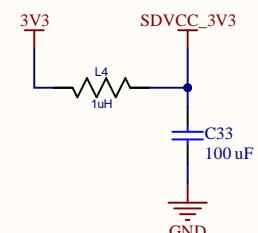
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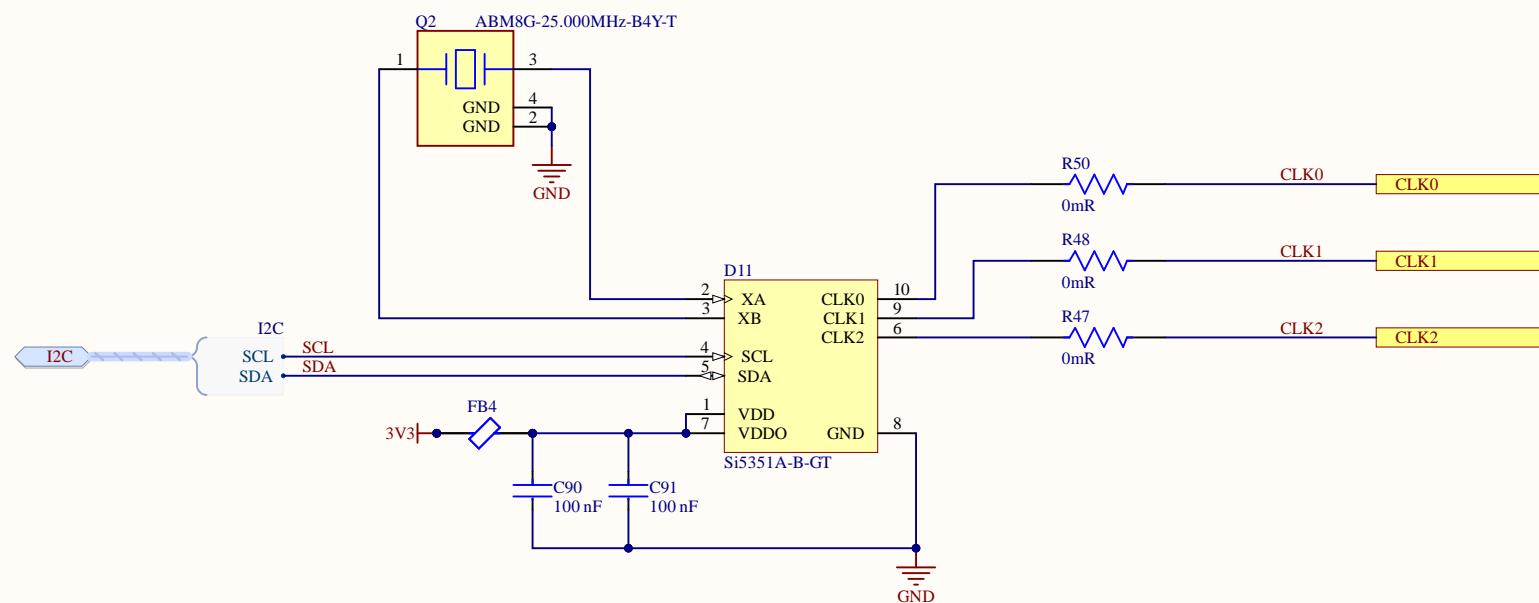
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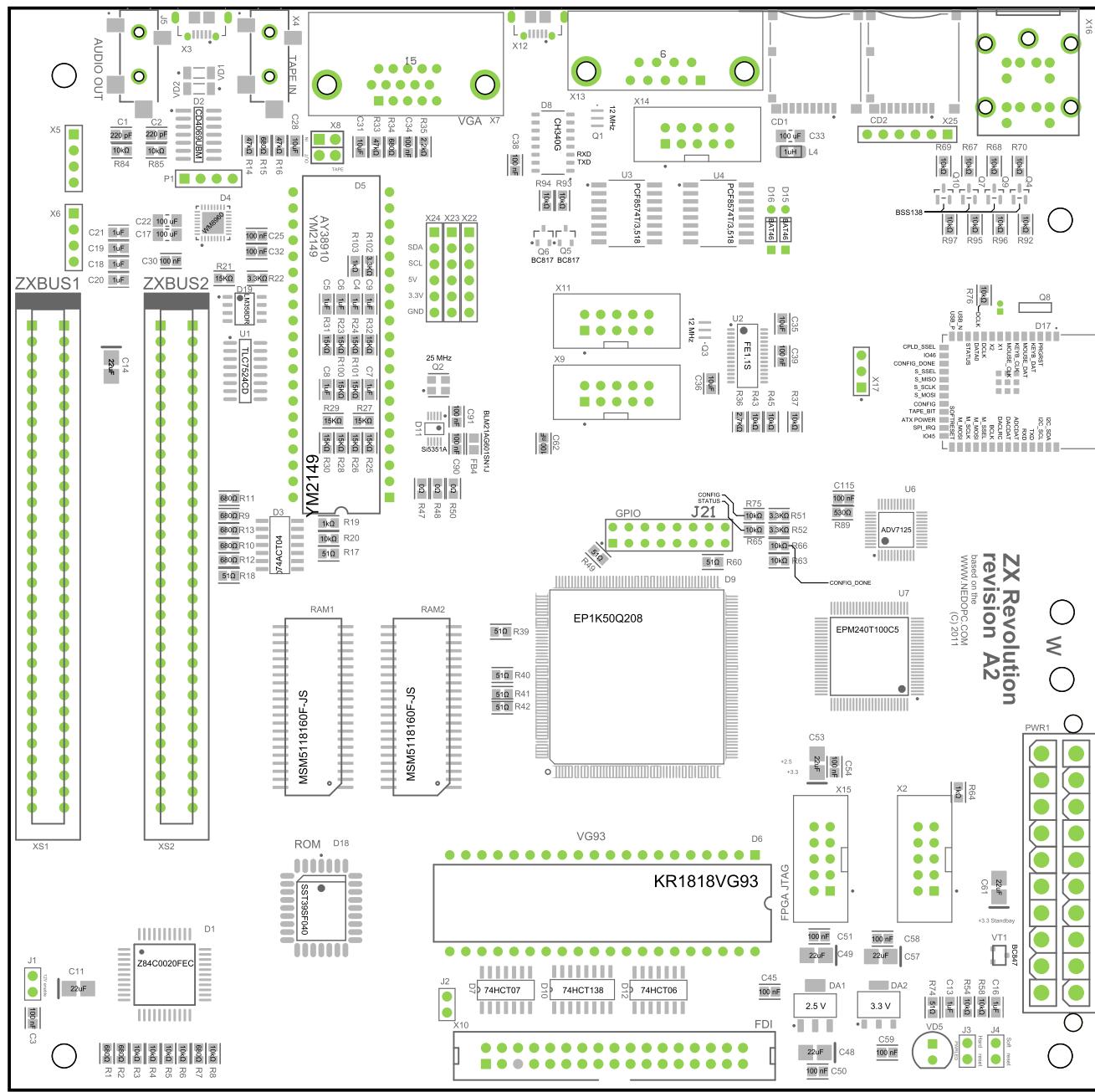
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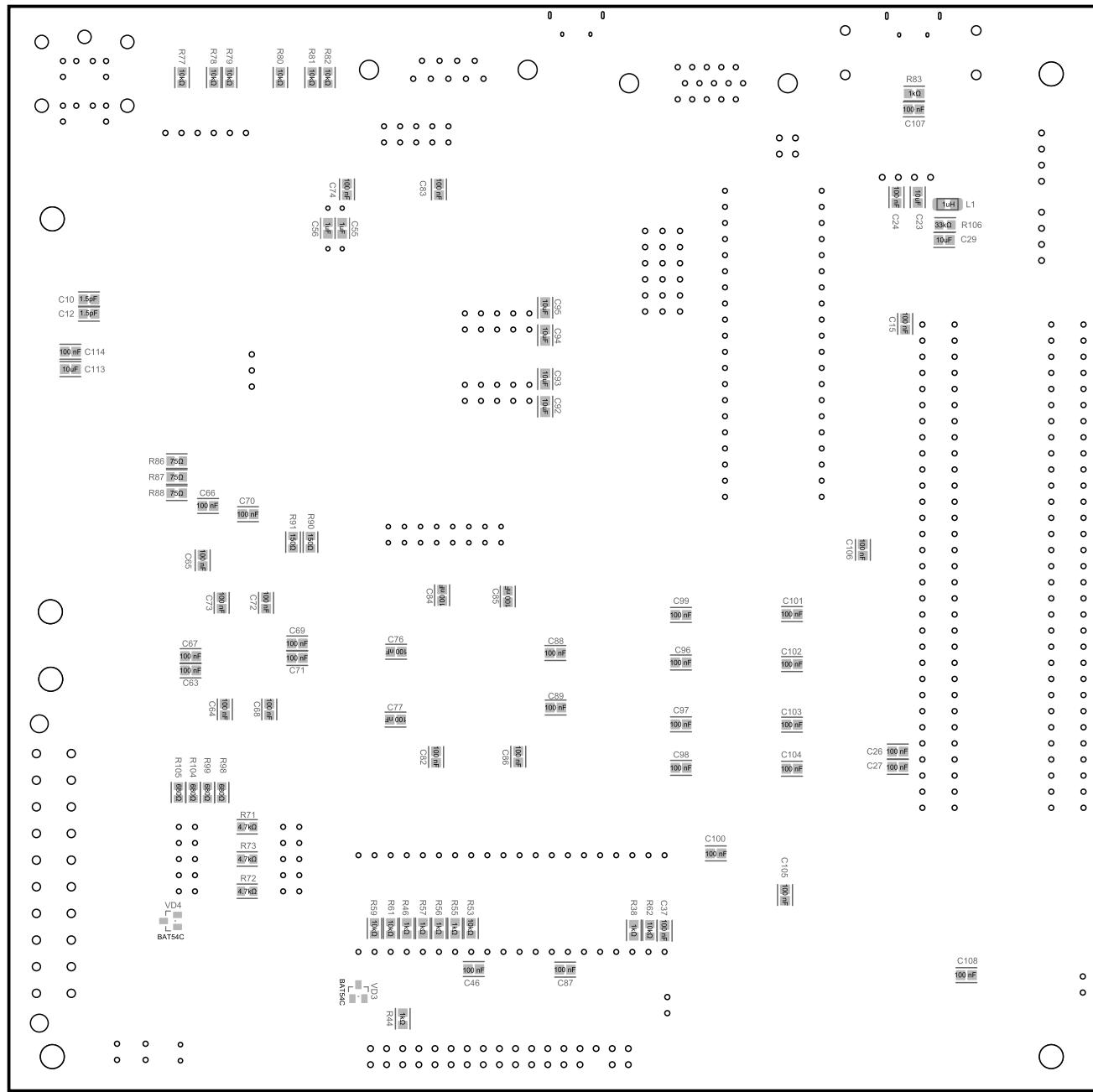
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Size A4	Number	Revision
Date: 2.06.2022	Sheet of	
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Category	Designator	Value	Case/Package	Quantity	Description
Cap		220pf	0805	2	CAP CER 220PF 50V X7R 0805
Cap					
	C2, C15, C24, C25, C26, C27, C30, C32, C34, C37, C38, C39, C39, C40, C41, C42, C54, C58, C59, C62 C63, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C76, C77, C32, C33, C84, C85, C86, C87, C88, C89, C90, C91, C92, C93, C94, C95, C100, C101, C102, C103, C104, C105, C106, C107, C108, C114, C119	100nf	0805	59	CAP CER 0.1UF 50V X7R 0805
Cap					
	C4, C5, C6, C7, C8, C9, C13, C16, C18, C19, C20, C21, C55, C56	1uf	0805	14	Ceramic Capacitor for Automotive 1uf ±10% 25VDC X7R 0805 Embossed 1/R
Cap					
	C10, C12	1.5pf	0805	1	C12 Series 0805 1.5pf 50V ±20% Tolerance COG Multilayer Ceramic Chip Capacitor
Cap					
	C11, C14, C48, C49, C50, C52, C53	22uf	1210	7	Standex Tantalum, 22uf, +/- 10%, 16, V, -5 to 125 deg., 2-Pin SMD 1210 Series
Cap					
	C117, C22, C33	100uf	1206	1	Chip Capacitor, 100uf, +/- 20%, 6.3V, -55 to 85 deg., 1206 (3216 Metric), RoHS, Tape and Reel
Cap					
	C35, C36, C39, C40, C94, C95, C113	10uf	0805	11	CAP CER 10UF 10V X5R 0805
Connector	C01, C02	5027740891	Micro SD (molex 4737712891)	2	Micro SD Memory Card Connector, 0.5 A, 10 V (DC), -25 to 85 deg., 8 Pin, 0.8mm Pitch, RoHS, Tape and Reel
Connector	I1, I2, J3, J4	PLS-2	453.2	4	4.8L1-1-IP Standex Tantalum, 22uf, +/- 10%, 16, V, -5 to 125 deg., 2-Pin SMD 1210 Series
Connector	J, K4	SJ-3524-SMT-TR	Stress Jack smd	2	Connector
Connector	J21	HEADER 16PQS 2.54MMH	PLD-16	1	CONN HEADER VERT 16POS 2.54MM
Connector	P1, X5, X6	Header 4 pin 2.54mm	PLS-4	3	TH1 Vertical Pin Header WR-PHD, Pitch 2.54 mm, Single Row, 4 pins
Power	PW81	ATXPOWER	Mini-FK 20 PIN 2.2	1	ATXPOWER
Connector	I2, X9, X11, X14, X15	10-pin Shrouded Header, 5.4mm	EDC-10	10	Main Header, Pitch 2.54 mm, 3 x 5 Position, Height 9.91 mm, Tall Length 2.84 mm, .55 to 105 deg., RoHS, Bulk
Connector	I3, X12	47589-0001	Micro USB (molex 47589-0001)	1	Right Angle Female Type AB Micro USB Connector, 30V, 1A & .30 to .50 deg., RoHS, Tape and Reel
Connector	K7	DSUB Angled, 15 pins	DSUB-15	1	Female High Density PCB Connector with Hex Screw WR-DSUB, Angled, 15 pins
Connector	PL8	PLD-4	PLD-4	1	PLD-4
Connector	I10	Shrouded Header 34 pins 2.54mm² row	EDC-34	1	EDC-34
Connector	X13	DSUB Angled, 9 pins	DSUB-9	1	Male PCB Connector with 9 Pin Screw WR-DSUB, 8.0 mm, Angled, 9 pins
Connector	I16	KEYE-MOUSE	Stacked Mini DIN	1	KEYE-MOUSE
Connector	I17	Header 3 pin, 2.54mm	PLS-3	1	Male Header, Pitch 2.54 mm, 1 x 3 Position, Height 8.38 mm, Tall Length 2.84 mm, Bulk
Connector	I22, X23, X24, X25	5 pin header 2.54mm	PLS-6	1	0.025" SO2 Post Header, Through hole, Vertical, .55 to 125 deg., 2.54 mm Pitch, 6 Pin, Male, RoHS
Connector	I51, X52	TXSLOT	SLA2	1	TXSLOT
Crystalline Oscillators	O1, Q3	CS1012M0052-R0		1	Crystal Oscillator, 12 MHz, +/- 0.5%, 40 to 125 deg., 3-Pin SMD, RoHS, Tape and Reel
Crystalline Oscillators	O2	NABM85-12M0052-B4Y-T	SMD/SMT	1	CRYSTAL 25.0000042 10% SMD
Crystals and Oscillators	O8	A815-32-768042		1	Crystalline Oscillators, 32.768 MHz, 10% Tolerance, 32.768 kHz, -20 to 70 deg., 1.2-Pin SOT 143 or 1.5 mm TAD, RoHS, Bulk
Diode	B15, D14	8A146		1	Small Signal Schottky Diode, 150 mA, 100V, 45 to 125 deg., 2-Pin DO- 25, RoHS, Tape and Reel
Diode	B16, D02	3.5A148	08080	1	0.025" SO2 Post Diode, 3.5A, 100V, 500mA, SOD80
Diode	B03, V04	8A14AC	SOT-23	1	DO305 ARRAYS SCHOTTKY 30V SOT23-3
Diode	B05	green		1	Light Emitter Diode
IC	D1	894020049EC	QFP-44	1	894020049EC
IC	D2	894020049EM	QFP-44	1	894020049EM 60MHz IMP 1450C
IC	D3	74AC174	SOC-14	1	174AC174
IC	D4	WM8960CGEL/RV	SON-32	1	Stereo CODEC with 1W Stereo Class-D speaker Drivers
IC	D5	89401000009	QFP-40	1	89401000009
IC	D6	89401000009	QFP-40	1	89401000009
IC	D7	74HC175T	SOC-14	1	175
IC	D8	CH0405	SOC-16	1	1758 Interface Integrated Circuit
IC	D9	894020049	QFP-44	1	894020049
IC	D10	74HC1138B	SOC-16	1	1138
IC	D11	85851A-8-GT	MSOP-10	1	12-C-Powerable Any Frequency CMOS Clock Generator + VCO.
IC	D12	74HC106	SOC-14	1	2.5 / 3.3V 0.008 to 160 MHz Output, 40 to 85 deg., 10 pin SOP
IC	D17	ESP32-S3-WROOM-1	ESP32-33	1	2.4 GHz WiFi (802.11 b/g/n) and Bluetooth® 5 (BLE) module. Built around ESP32-S3 series of SoCs, Xtensa® dual-core 32-bit LX7 microprocessor, rich set of peripherals Onboard antenna or external antenna connector
IC	D18	SST39VF040-70-4C-NHE	PLCC-32	1	Memory, SRAM, Purpose Flash, 0.5 to 5.5 V, 10 to 70 deg., 32 pin PLCC, NVMe
IC	D19	LM358DR	SOIC	1	OPAMP GP / OPAMP 850C
IC	D41	M117174B2-5/5N0P8	SOT-223	1	100mA Low Dropout Linear Regulator, 4 pin SOT-223, Pb-Free
IC	D42	M117174B2-5/5N0P8	SOT-223	1	100mA Low Dropout Linear Regulator, 4 pin SOT-223, Pb-Free
IC	D43	M5A6118M01-J5	SOT-42	2	M5A6118M01-J5
IC	D46	TLP1240	SOC-16	1	8-Bit 10-MHz Parallel Input, Fast Control Signalling for DSP, Easy Micro Interface, 0 to 70 deg., 14-pin SOIC (D16), Green (RoHS & no Lead)
IC	D2	FET15	SOP-28	1	USB 2.0 HIGH SPEED 4 PORT HUB CONTROLLER
IC	D3, D4	PCF8574T/3,518	SOT162-1	2	2.5V I/O EXPANDER 128x16 MOSIC
IC	D5	ADV7125PS7140	TDFP-48	1	Digital-to-Analog Video-Digital-to-Analog Converter, 16 to 488 deg., ST 48-Pin Free, Tray
IC	D7	EPROM1000C	TDFP-100	1	MAX 3.3/7.5V CPLD, 88 I/O, 240 Logic Elements, 100-Pin Plastic (TQFP) Commercial Temperature, Speed Grade 2
Inductor	R84	BLM1140A091SN11	0805	1	Surface Mount Inductors, 0805, 400nH to 1000nH, 0.20, 25%, 100mA
Inductor	R11, R4	Halt	0805	2	CL-CUP
Res	R1, R2, R7, R9, R10, R12, R13, R15, R24, R28, R29, R30, R31, R32, R33	8800	0805	14	RES SMD 680 OHM 1% 1/W 0805
Res	R3, R4, R5, R6, R7, R8, R9, R10, R11, R53, R54, R56, R59, R61, R62, R63, R65, R66, R67, R68, R69, R70, R71, R72, R73, R78, R79, R80, R81, R92, R94, R95, R96, R97, R98	10kΩ	0805	38	Thick Film Chip Resistors 0805 10kΩ 0.125W 5% 200ppm/°C
Res	R14, R16, R33	1kΩ	0805	1	RES Thick Film 4% 0.1% 0.9W 100ppm/°C_0805
Res	R17, R18, R29, R40, R42, R44, R46, R74	51Ω	0805	1	51Ω ±0.5% 0.1W 1/10W Chip Resistor 0805 (2012 Metric) Thin Film
Res	R19, R38, R44, R46, R55, R56, R57, R83	1kΩ	0805	1	RES Thick Film, 1kΩ, 1%, 0.5W, 100ppm/°C, 0805
Res	R21, R22, R24, R25, R26, R27, R28, R29, R30, R31, R32, R30	15kΩ	0805	13	SMD Chip Resistor, Thin Film, 15kΩ, 100 V, 0805 (2012 Metric), 100 mW, 0.1%, RN73 Series
Res	R22, R51, R52, R102	3.3kΩ	0805	4	4.95 SMD 3.3K OHM 1% 1/W 0805
Res	R35	2.2kΩ	0805	1	Thick Film Chip Resistors 0805 2.2kΩ 0.125W 5% 200ppm/°C
Res	R36	1.2kΩ	0805	1	1.2kΩ ±0.5% 0.1W 1/10W Chip Resistor 0805 (2012 Metric) Thin Film
Res	R47, R48, R50	90Ω	0805	3	Thick Film Chip Resistors 0805 0.125Ω 5% 200ppm/°C
Res	R64	1kΩ	0805	1	Thick Film Chip Resistor 0805 1kΩ 5% 200ppm/°C, 0.125W, 150V
Res	R71, R72, R73	4.7kΩ	0805	3	Thick Film Chip Resistor 0805 4.7kΩ 5% 200ppm/°C
Res	R86, R87, R88	15Ω	0805	1	15Ω ±0.5% 0.1W 1/10W Chip Resistor 0805 (2012 Metric), 100 mW, 0.1%, RN73 Series
Res	R89	1.3kΩ	0805	1	1.3kΩ ±0.5% 0.1W 1/10W Chip Resistor 0805 (2012 Metric), 100 mW, 0.1%, RN73 Series
Res	R90, R91	150Ω	0805	2	SMD Chip Resistor, Thin Film, 150Ω, 100 V, 0805 (2012 Metric), 100 mW, 0.1%, RN73 Series
Res	R106	13kΩ	0805	1	13kΩ ±0.5% 0.125W 0.085 Thick Film Chip Resistor AEC-Q200 compliant
Transistor	Q4, Q7, Q9, Q10	083138	SOT-23	1	0805±11.0±0.50V 220mA SOT-23
Transistor	Q5, Q6	BC817K-25	SOT-23	2	2N95 Silicon AF Transistor, 45 V VCEO, 500 mA IC, SOT23, Reel, Green
Transistor	V11	BC347	SOT-23	1	BC347

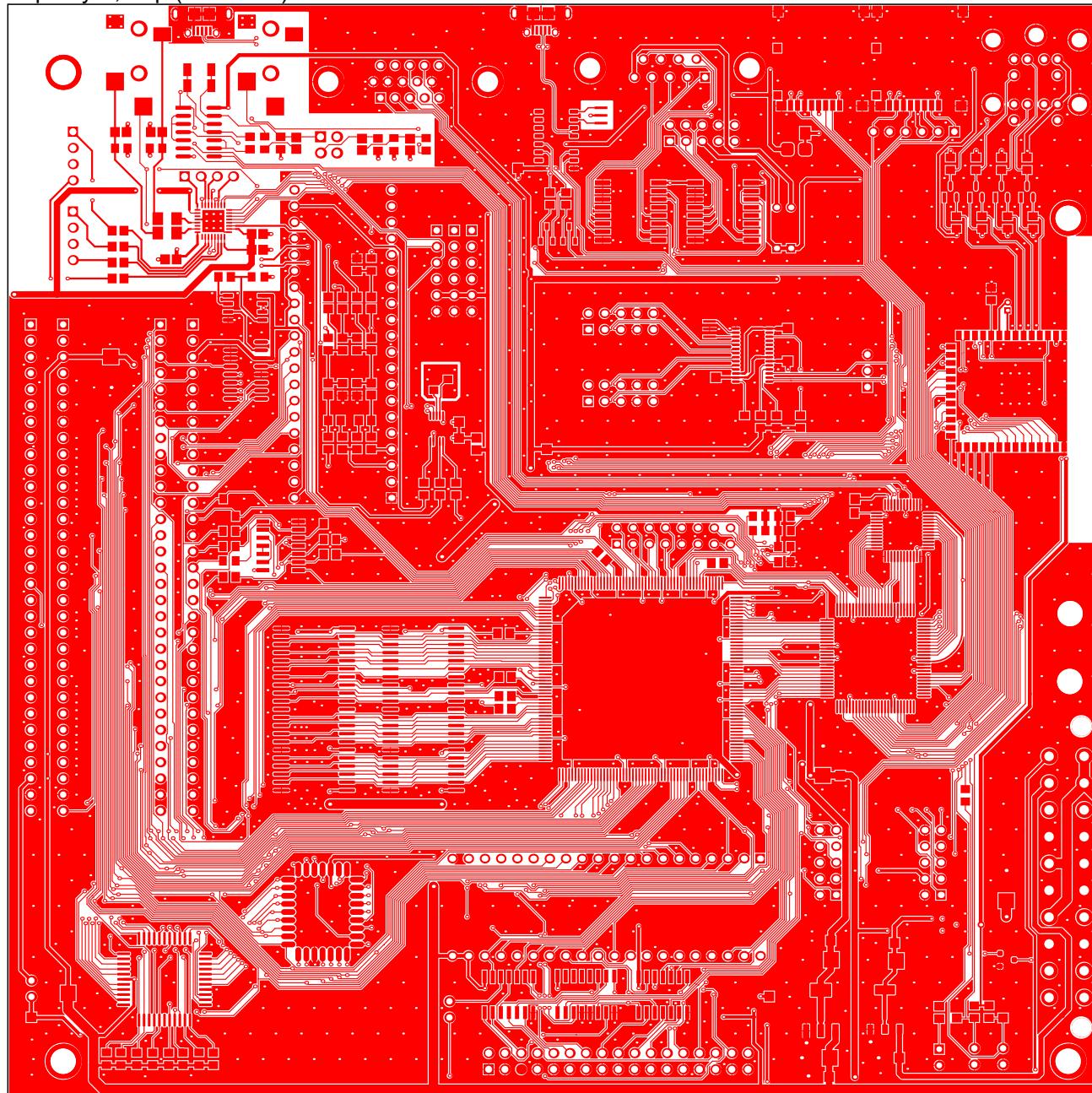
View from Top side (Scale 1:1)



View from Bottom side (Scale 1:1)



Top Layer, Top (Scale 1:1)



Bottom Layer, Bottom (Scale 1:1)

