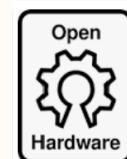
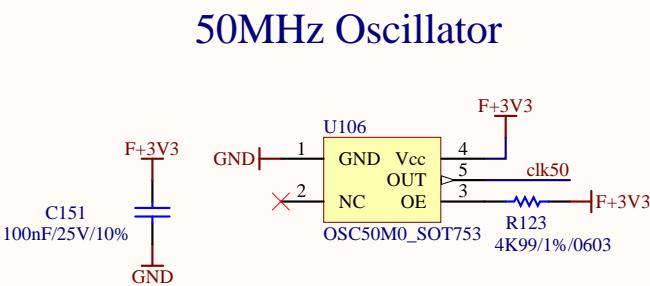
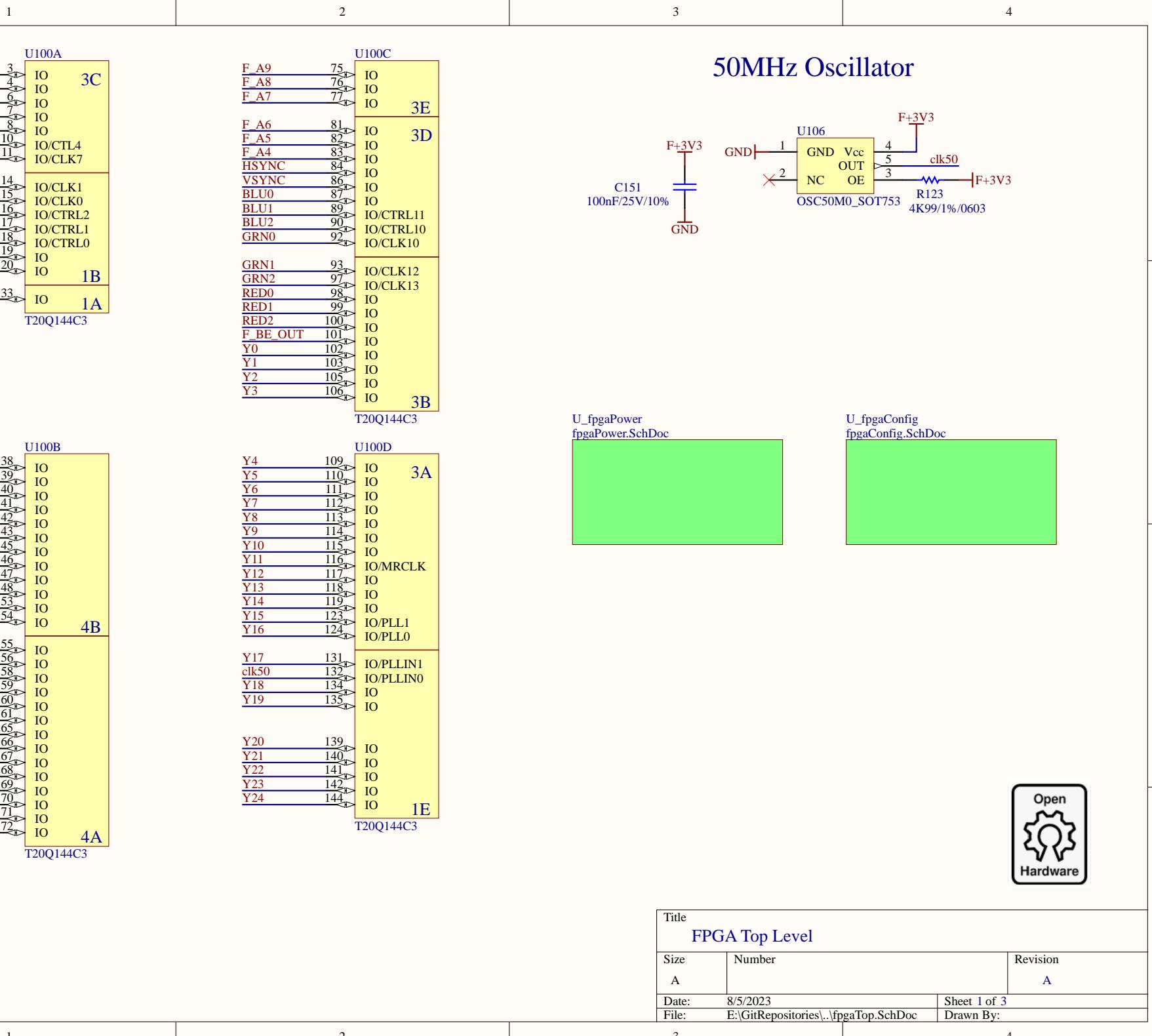


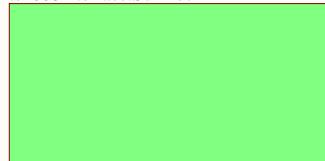
Comment	Description	Designator	Footprint	LibRef	MFG PN	DN PN	Quantity
Q11UF	0.1uf ±10% 20V Ceramic Capacitor X7R Rad1 (1608) Metrix (1608)	C10, C4, C5, C6, C7, C8, C9	0402	0.TUF	C0603C104K4RACU	399-109E	4
10UF/CER	0.1uf ±10% 20V Ceramic Capacitor X5R Rad1 (1608) Metrix (1608)	C9, C10, C11, C12	0805	10UF/CER	GRM21BC71E100AE11L	400-104H	4
10UF/25V0402	0.1uf ±10% 20V Ceramic Capacitor X7R Rad1 (1608) Metrix (1608)	C10, C11, C12, C13, C14	0402	10UF/25V/0402	C110A104MA08NNNC	1276-186H	4
100nF/25V105	0.105 nF ±10% 20V Ceramic Capacitor X7R Rad1 (1005) Metrix (1005)	C102, C103, C105, C112, C113, C115	0402	CAP100N25V	9603C104KAT3A	FBS-314H	5
0.01UF/0402	0.105 nF ±10% 20V Ceramic Capacitor X7R Rad1 (1005) Metrix (1005)	C109, C109, C111	0402	0.01UF/16V/0402	GMC04K7B103K16ANT	TTR-ND	3
10UF/10V0402	0.22 uf ±10% 25V Ceramic Capacitor X5R Rad1 (1005) Metrix (1005)	C108, C110, C111, C120, C129, C130, C131, C132, C145, C146, C147, C148	0402	10UF/10V/0402	C105A104MP8NU88	1276-683D	13
0.1UF/0402	0.22 uf ±10% 25V Ceramic Capacitor X7R Rad1 (1005) Metrix (1005)	C115, C116, C117, C118, C121, C122, C134, C135, C136	0402	0.1UF/16V/0402	CGA2B1X7R1C104K050C	445-541H	9
0.22UF/0402	0.22 uf ±10% 25V Ceramic Capacitor X7R Rad1 (1005) Metrix (1005)	C121, C122, C123, C124, C125, C126, C139, C140, C141, C142, C143	0402	0.22UF/0402	C0602KX888E224	311-334H	11
LST-C191KGKT	Power SMD LED Indication - Through Hole Mounting	D101, D102	LED0603	LST-C191KGKT	LST-C191KGKT	1-N0	2
P90378	100 Ohm, ±10% 0.1W, Power Signal Line Resistor Rad1 Metrix Mount 1A 200mOhm	101, L102, L103	0402	P90378	P90378	CP-037B- ND	1
MH1608-401Y	100 Ohm, ±10% 0.1W, Power Signal Line Resistor Rad1 Metrix Mount 1A 200mOhm	MH1608-401Y	MH1608-401Y	MH1608-401Y	MH1608-401Y	401VCT,- ND	3
OPN4HW-PCB	DHD	OpennHW	OpennHW	OPN4HW- PCB		1	
OPN4HW-SCH	DHD	OpennHW	OpennHW	OPN4HW- SCH		1	
TS2946	PS, P4, P6	TS2946	TS2946	TS2946	TS2946	1	1
CONN DSUB HD HDFP 19S05 RIA NEDRS	P7	DB15FLC	HD15	ICD15513E4GJ00LF	ND	409-518H	1
H062	P6, P100	H062	H062			165-144H	2
Conn500T	Header Through Hole 10 position						
HDR10SHB	Report (BT) Transistor NPN 0.1W, 100mA 300MHz 350 mW Surface Mount Film	P501	HD610	HDR10SHB	302-5101	ED1543- ND	1
MMBIT3904-TP	499 Ohm ±1% 0.1W, 1/10W Chip Resistor Rad1 (1608) Metrix Moisture Resistant Thick Film	R101	SOT-23	MMBIT3904-TP	MMBIT3904- TPHM5CT,- ND	1	
10K/1%0402	10k Ohm ±1% 0.1W, 1/10W Chip Resistor Rad1 (1608) Metrix Moisture Resistant Thick Film	R102, R104, R105, R106, <td>0402</td> <td></td> <td></td> <td>311- 100KHRTN ND</td> <td>19</td>	0402			311- 100KHRTN ND	19
499/1%0402	499 Ohm ±1% 0.1W, 1/10W Chip Resistor Rad1 (1608) Metrix Moisture Resistant Thick Film	R103, R104, R105, R106, <td>0402</td> <td>499/1%0402</td> <td>RC0603FR-01499L</td> <td>499RCI,- ND</td> <td>6</td>	0402	499/1%0402	RC0603FR-01499L	499RCI,- ND	6
2K00/1%0402	2 kOhms ±1% 0.1W, 1/10W Chip Resistor Rad1 (1608) Metrix Moisture Resistant Thick Film	R11, R502, R506, <td>0402</td> <td>2K00/1%0402</td> <td>RC0603FR-072KL</td> <td>2.00KHRCI ND</td> <td>4</td>	0402	2K00/1%0402	RC0603FR-072KL	2.00KHRCI ND	4
4K99/1%0402	4.99 kOhms ±1% 0.1W, 1/10W Chip Resistor Rad1 (1608) Metrix Moisture Resistant Thick Film	R16, R123	0402	4K99/1%0402	RC0603FR-07499L	4.99KHRTN ND	2
27.0/1%0402	27 Ohm ±1% 0.1W, 1/10W Chip Resistor Rad1 (1608) Metrix Moisture Resistant Thick Film	R111	0402	27.0/1%0402	RC0603FR-0737RL	27.0HRCI,- ND	1
100/1%0402	100 Ohm ±1% 0.1W, 1/10W Chip Resistor Rad1 (1608) Metrix Moisture Resistant Thick Film	R116	0402	100/1%0402	RC0603FR-07106L	100KHRCI ND	1
1000/1%0402	10.00 Ohm ±1% 0.1W, 1/10W Chip Resistor Rad1 (1608) Metrix Moisture Resistant Thick Film	R501, R505, R509	0402	1000/1%0402	RC0603FR-071KL	10.00KHRCI ND	5
47K5/1%0402	47.5 kOhms ±1% 0.1W, 1/10W Chip Resistor Rad1 (1608) Metrix Moisture Resistant Thick Film	R515, R514	0402	47K5/1%0402	RC0603FR-07120RL	12.0HRCI,- ND	2
PT5820SW	SPST-NO Top Actuated Surface Mount	SW101, SW102	PT5820	PT5820SW	PT5820 J20M SMTR LFS	CONN1058B CT-ND	2
SW101/202J-V1-G2	Power SwitchDriver 1.1 N-Channel 2A-8 V-GE2/CT	U3	TSSOP6-A	SW101/202J-V1-G2	SW032022 VJ-GE2/CT ND	1	
N74LVC8T24SD	Voltage Level Translator Bidirectional 1 Circuit 8 Channel VR	U4, U7, U8, U9	SO1-24	N74LVC8T24SD	N74LVC8T24SDW	296-239B ND	4
T200144C3	Front + Field Programmable Gate Array [FPGA] CPLD 144x102F	U100	LQFP144	T200144C3	T200144C3	213A- T200144C 3-N0	1
FLASH-NOR Memory 4Mb 8 SR Quad 133 SOP-52						W25Q32AV SS90CT- ND	1
W25Q32AVSS90	32 Mbit XQ SOP-52 HCMOS V-NOR 4Mb 8 SR Quad 133 SOP-52	U102	so8w	W25Q32AVSS90	W25Q32AVSS90 TR	1475- S172001B 53-X05 50.000000 ND	1
05C50MLB_SOT13	Linear Voltage Regulator Positive Feed 1 Output 1.5A 2.5V	U106	SOT753	05C50MLB_SOT13	SIT2001B1-S3-X05-50.000000	344- S172001B 53-X05 50.000000 ND	1
UD01V3	Linear Voltage Regulator Positive Feed 1 Output 1.5A 2.5V	VR101	OPAK	UD01V3	UD10860733TR	1-N0	1
UD01V2	Linear Voltage Regulator Positive Feed 1 Output 1.5A 2.5V	VR102	SOT753-S	UD01V2	NCP114ASN120TIG	NCP114AS ND	1



Title		
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A

U\_ts2068Interface  
ts2068Interface.SchDoc



A

B

U\_Buffers  
Buffers.schdoc



B

C

U\_Peripherals  
Peripherals.SchDoc



C

D

PCB Icons

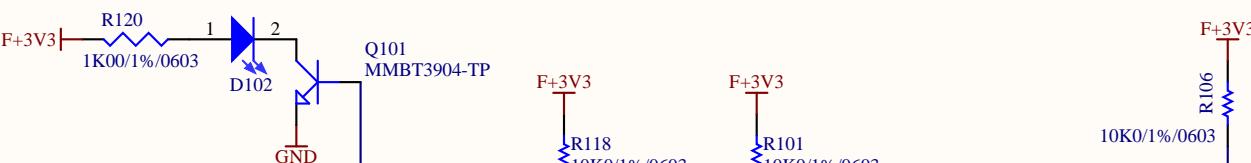


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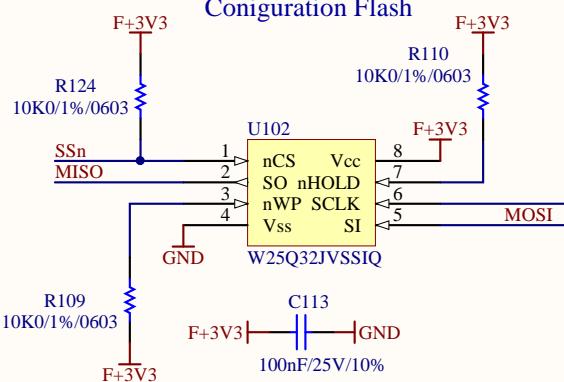
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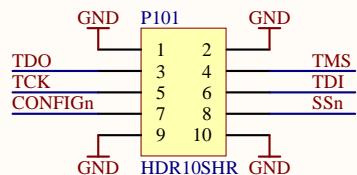
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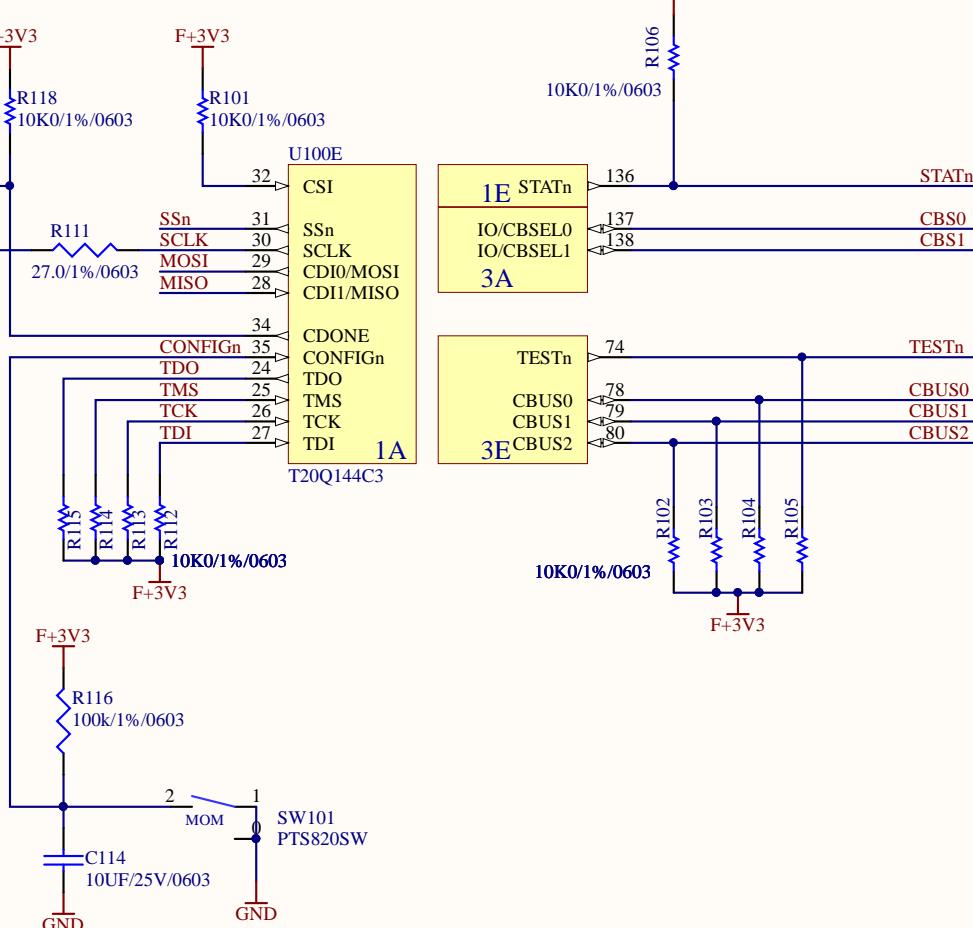
## Configuration Flash



## JTAG Connector



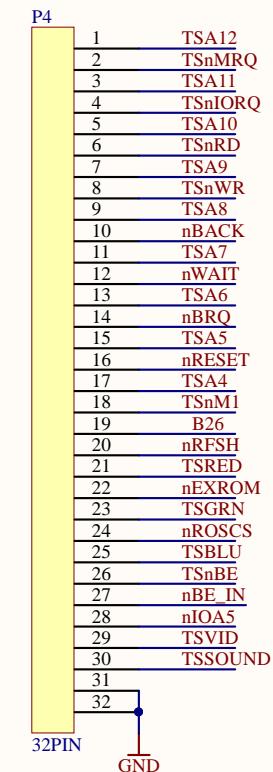
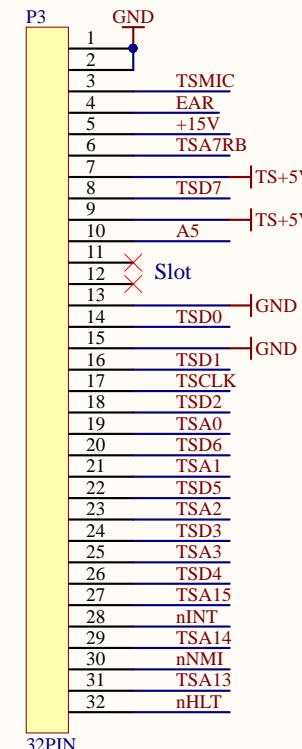
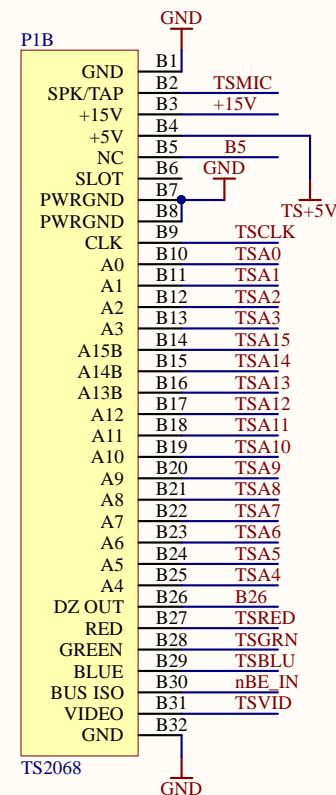
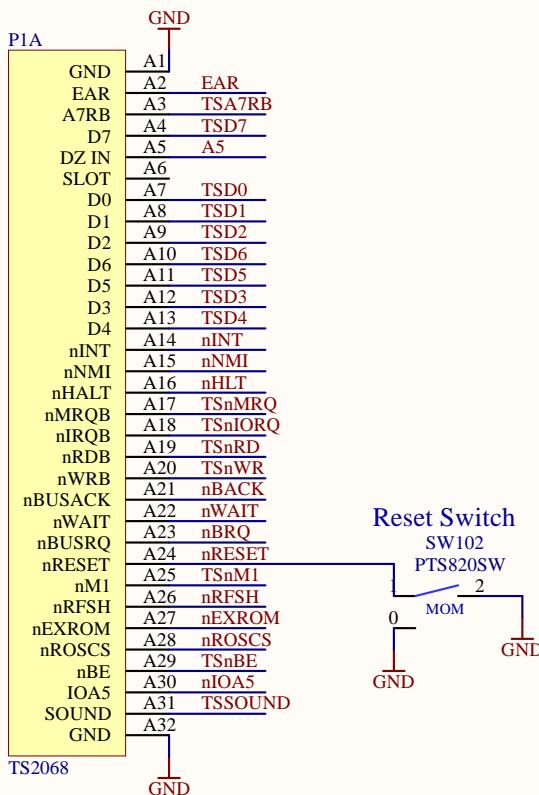
## Reconfiguration Switch



Title  
FPGA Configuration

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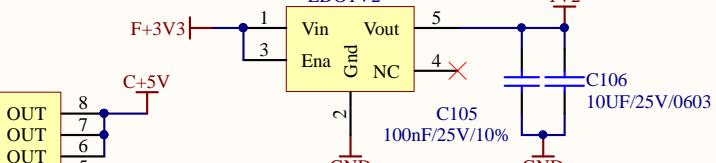
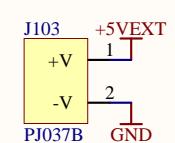


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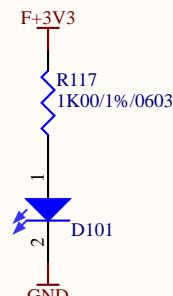
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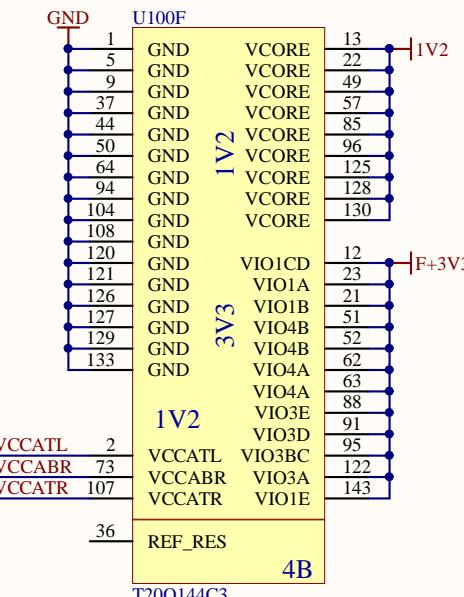
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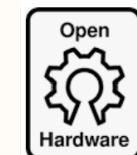
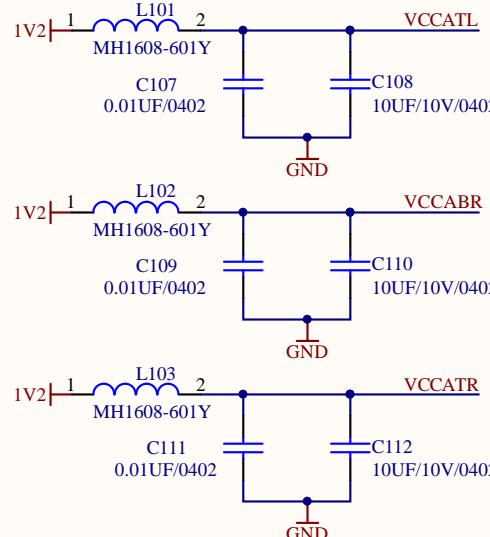
#### Power Indicator



#### FPGA Power



#### PLL Filtering

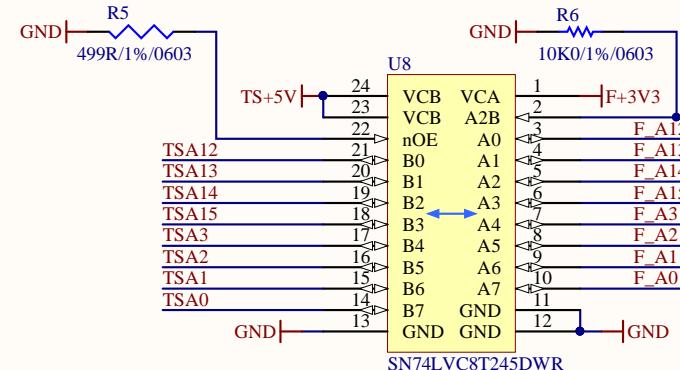
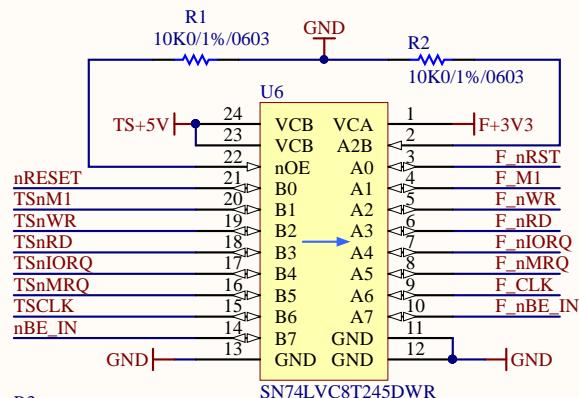


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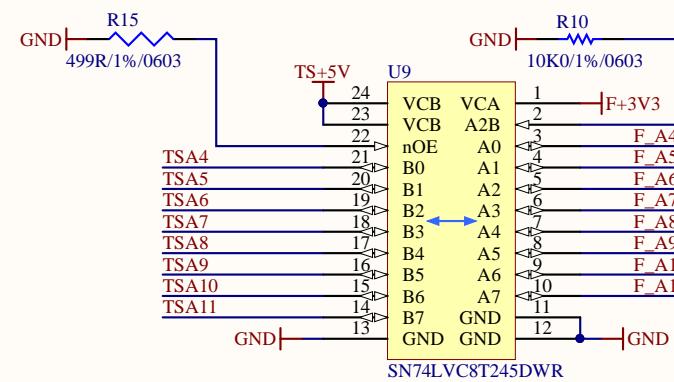
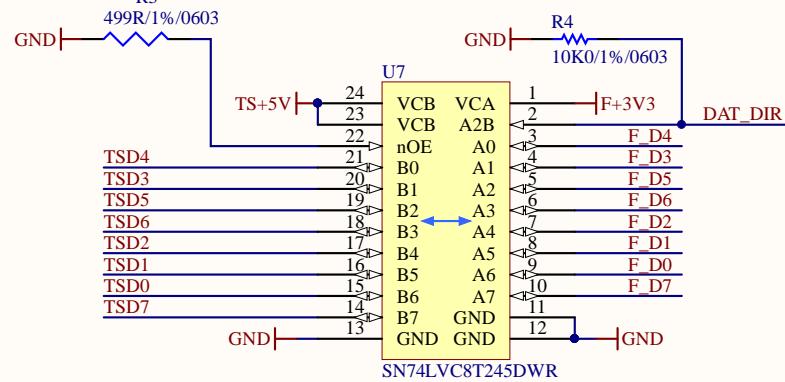
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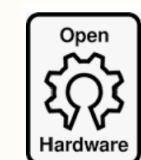
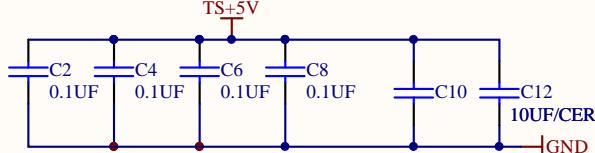
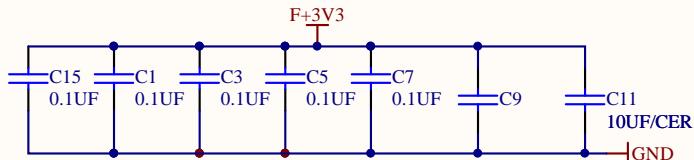
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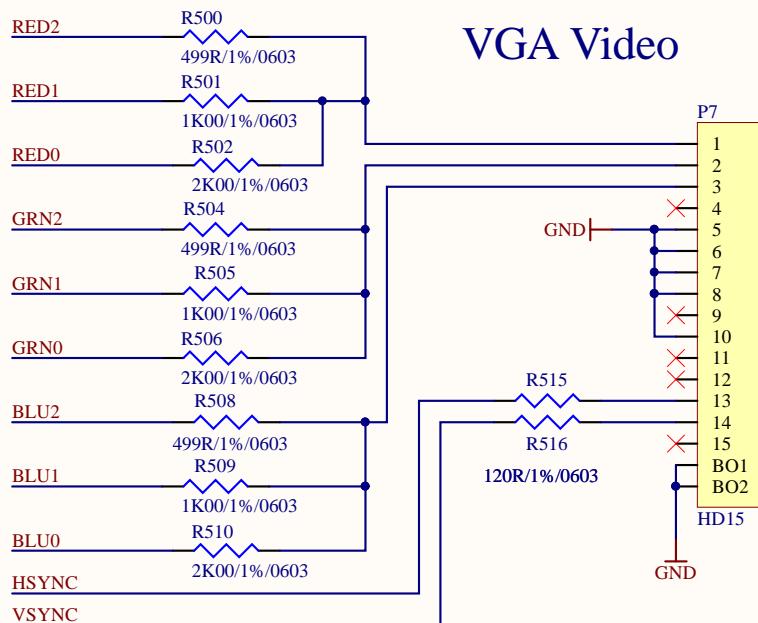
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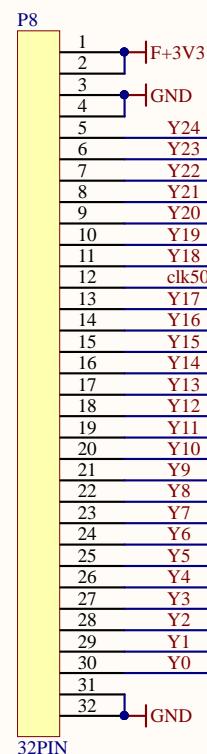
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A



B



C



D

Title

Memory

Size

A

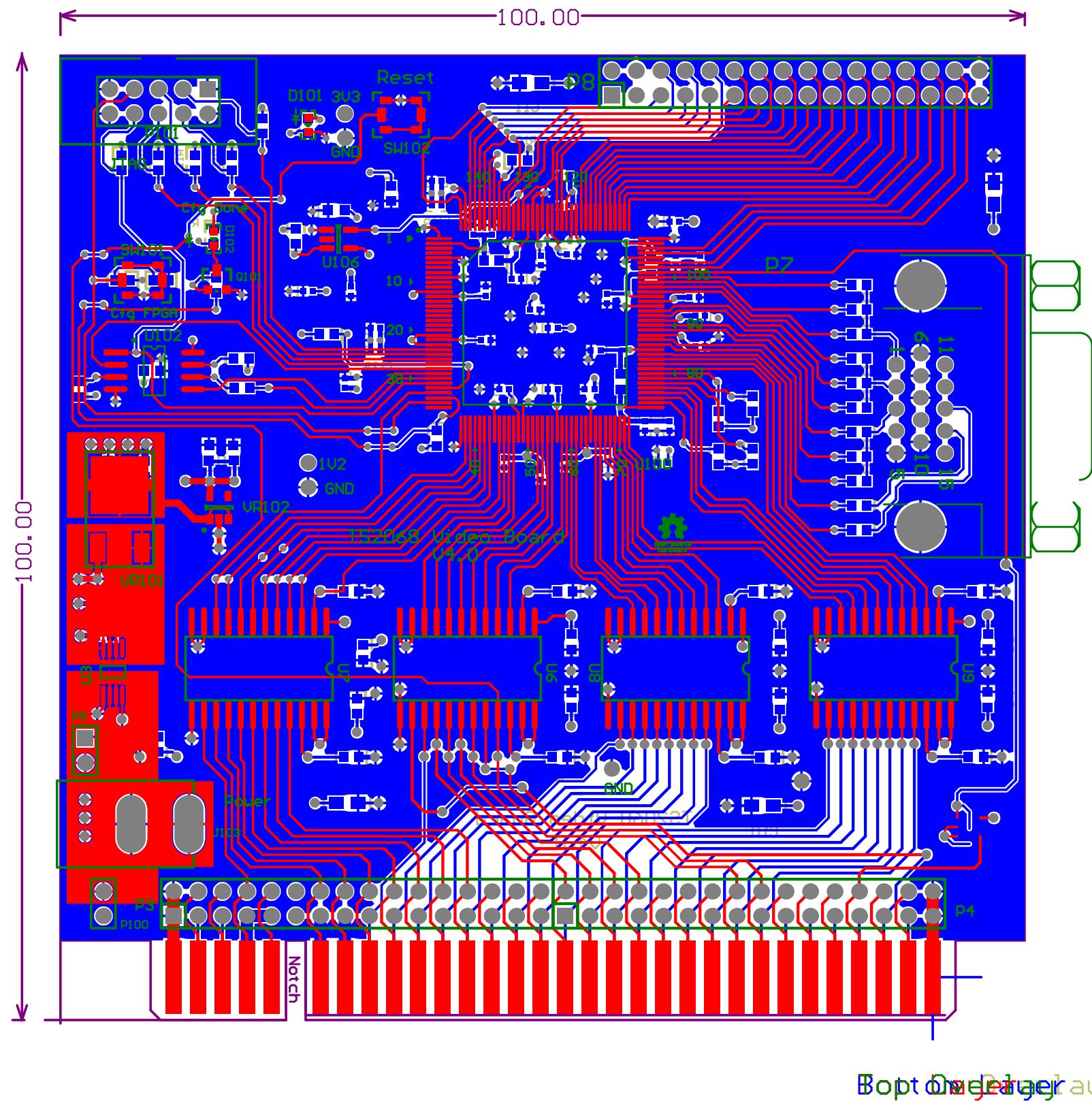
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Revision

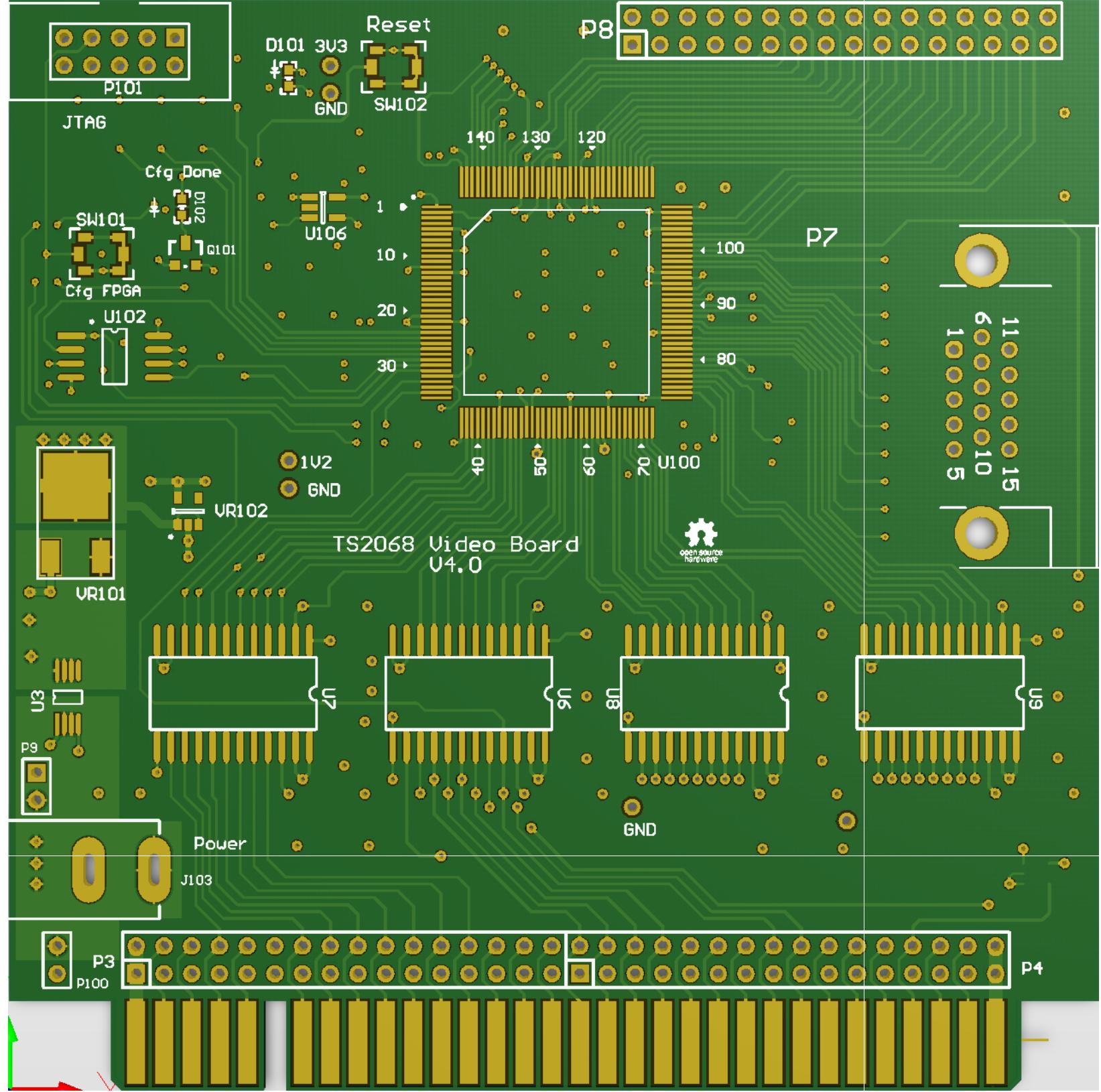
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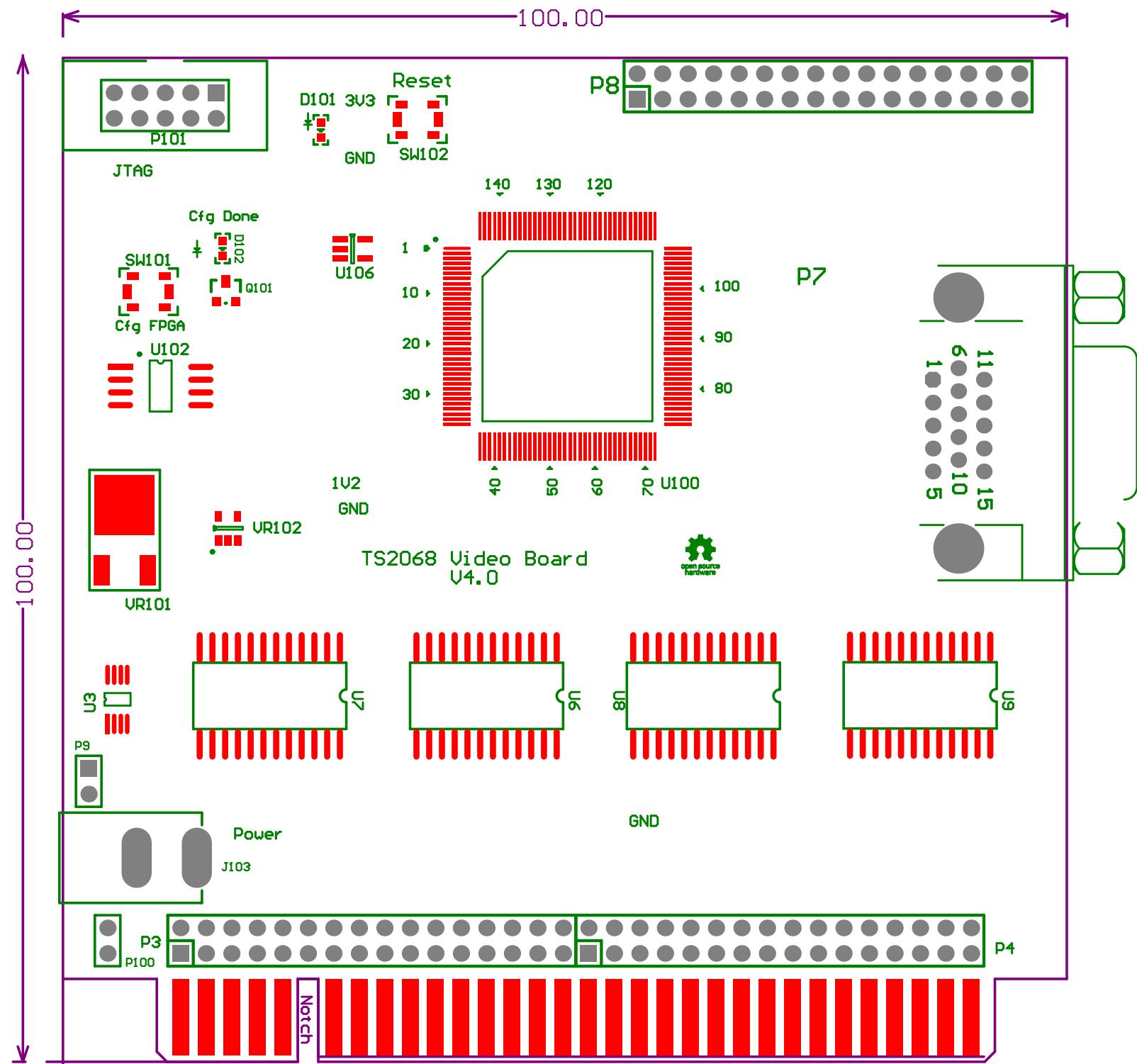
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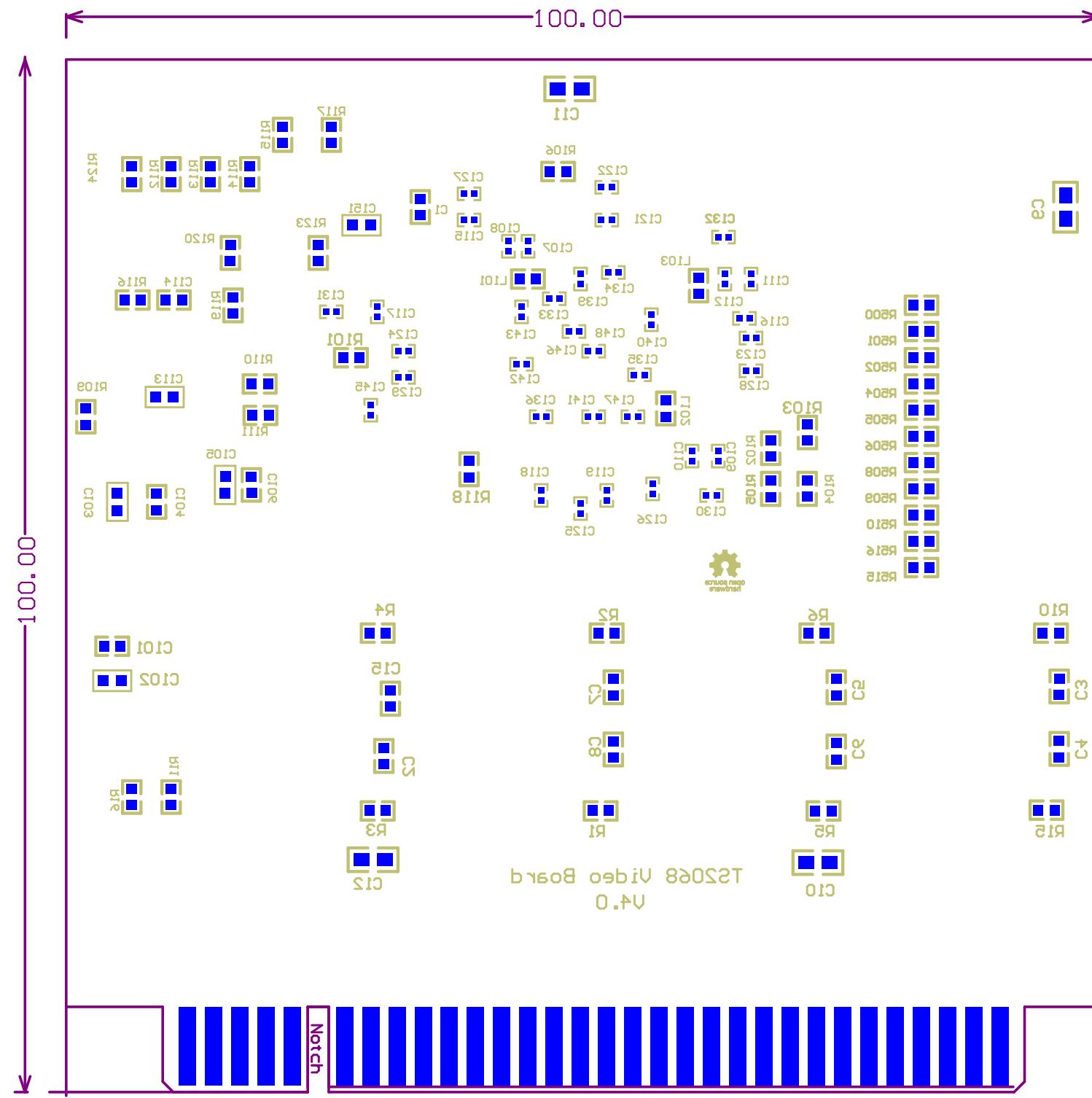
Bop Overlay







Top Overlay



## Bottom Overlay