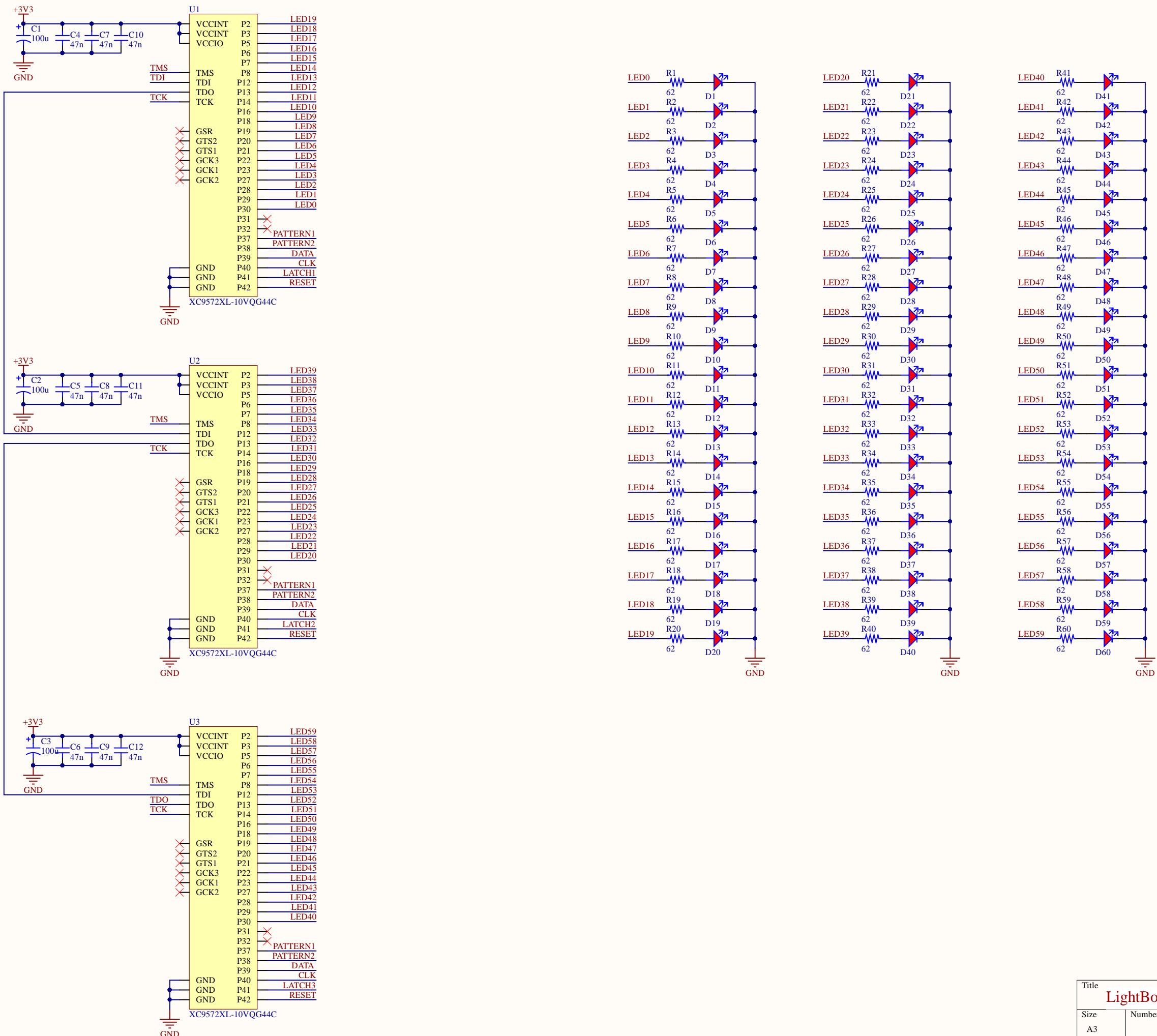
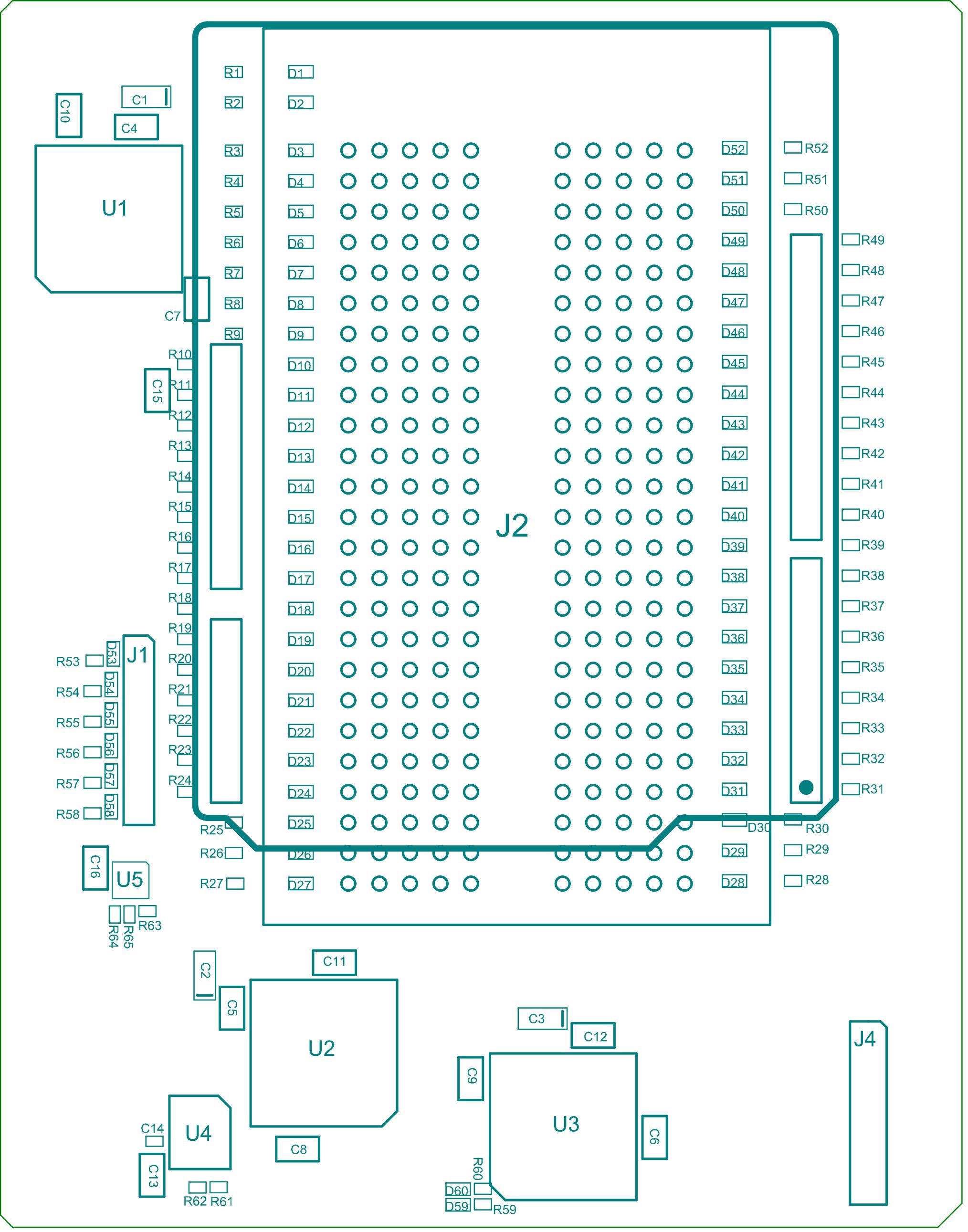


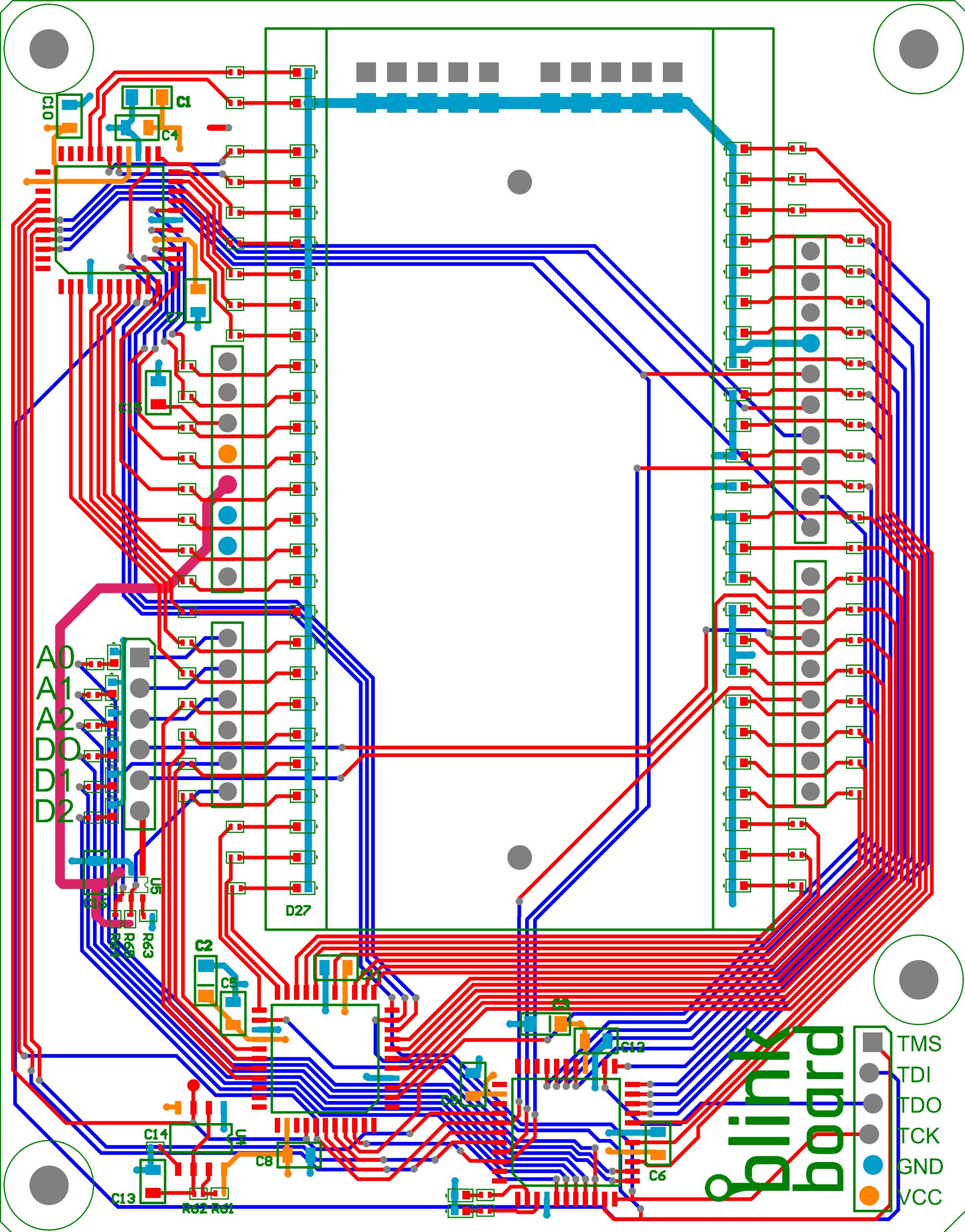
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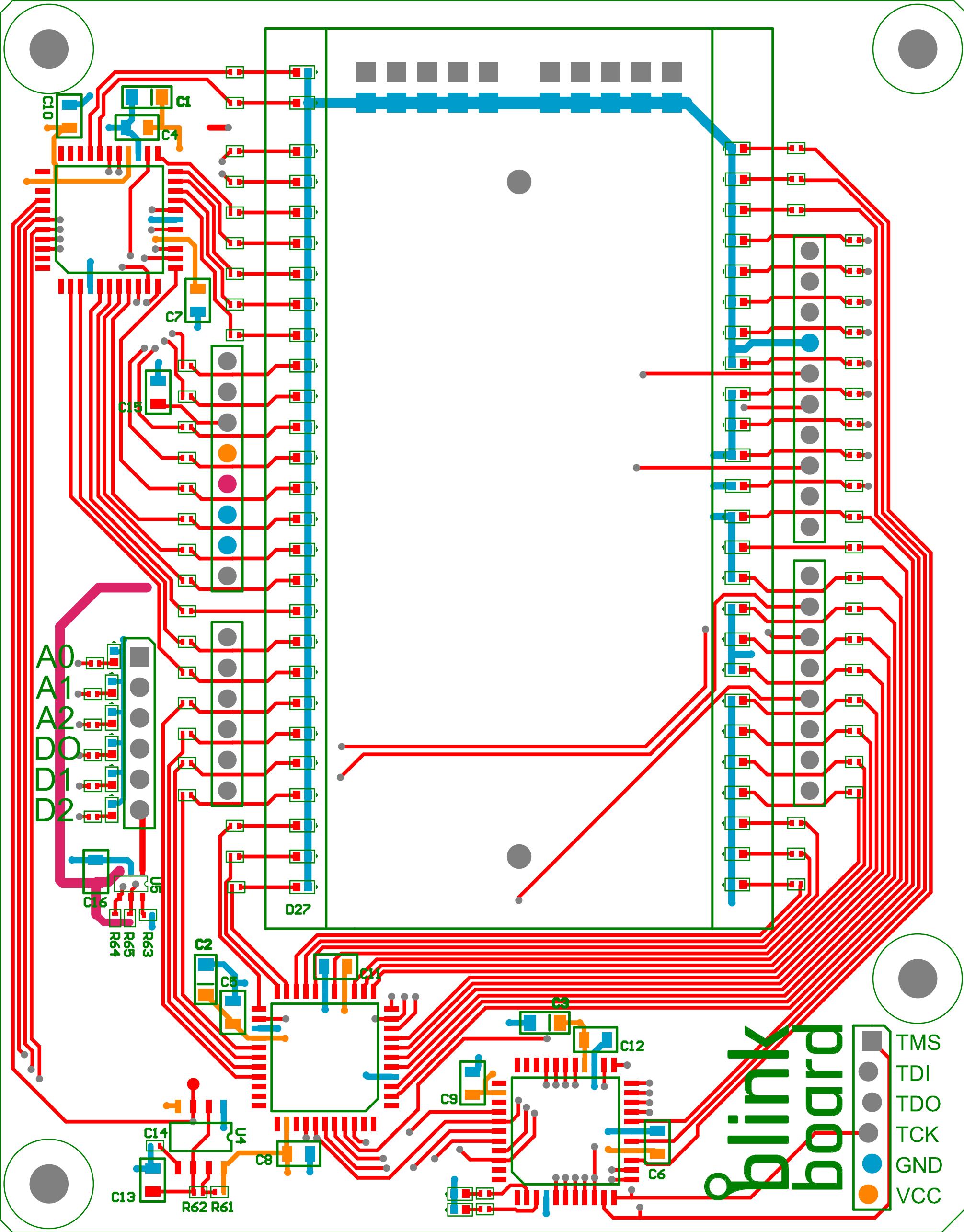
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Date:	7/10/2020	Sheet 1 of 3
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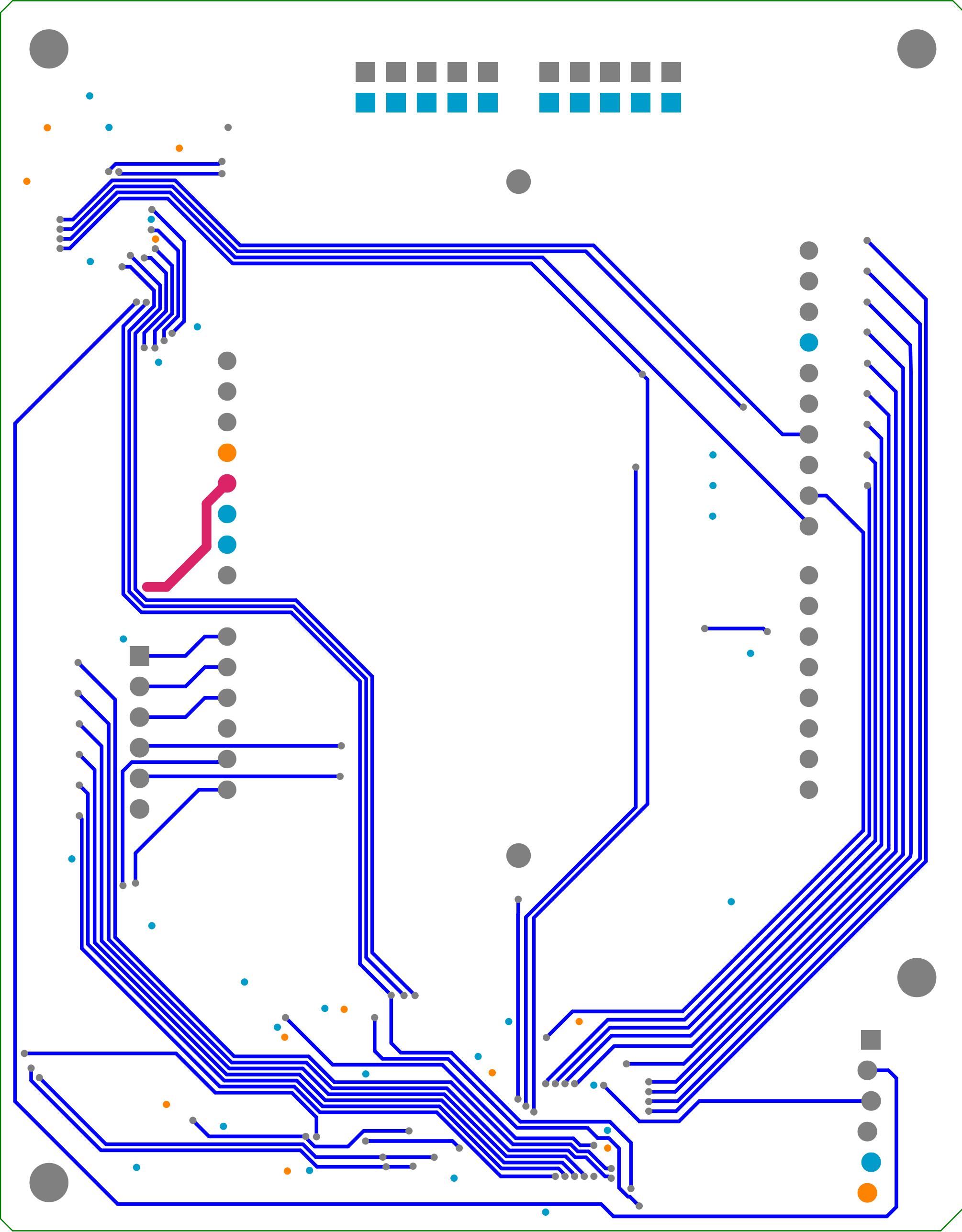


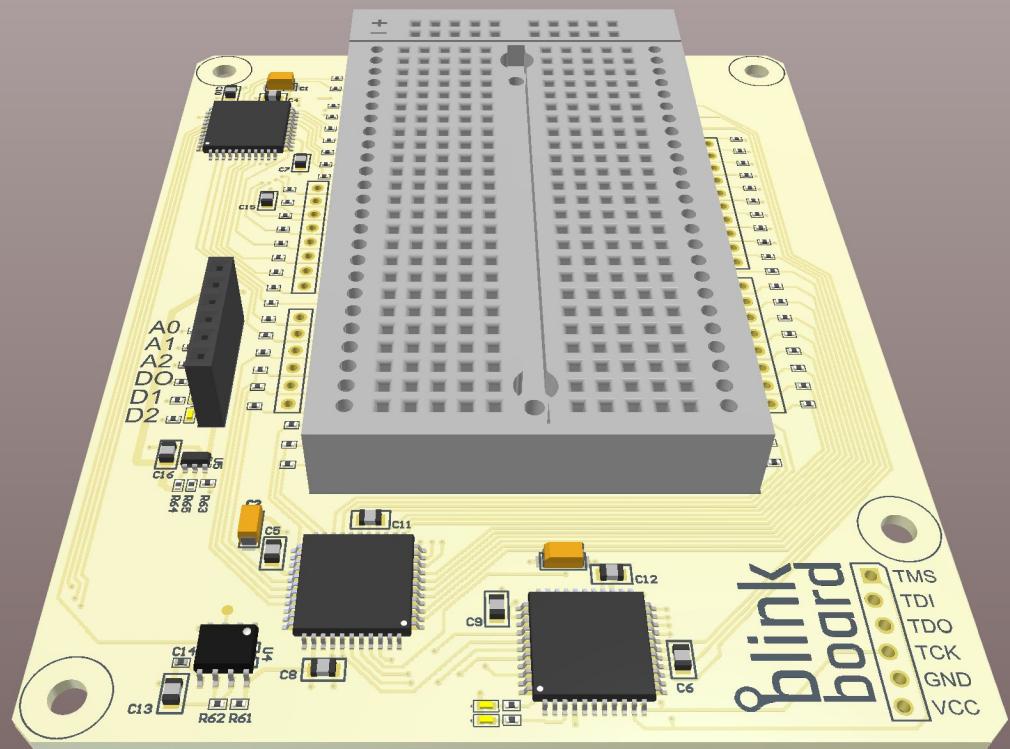


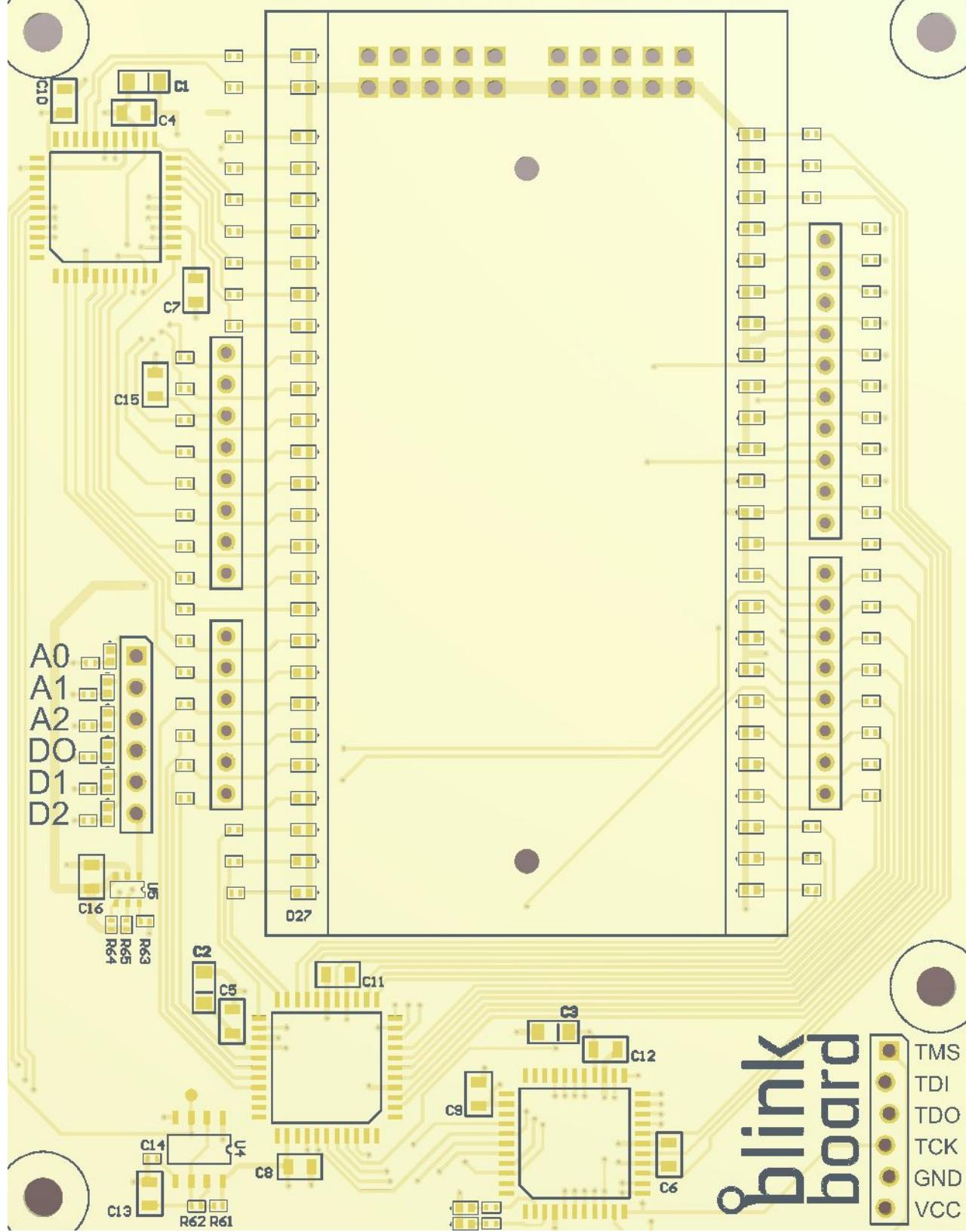
Designator	Packaging	Supplier Part Num	Comment	Description	Manufacturer 1	Manufacturer Par	Quantity	Supplier Currency	Supplier	Supplier Unit Price	1
C1, C2, C3	Tape and Reel	399-3688-6-ND	100u	100uF Solid MnO	KEMET	T491A107M004A	3	USD	3	0.67	
C4, C5, C6, C7, C8, C9, C10, C1	Tape and Reel	311-3553-6-ND	47n	Cap Ceramic 0.04	Yageo	CC0805JRX7R9BB	9	USD	9	0.2	
C13, C16	Tape and Reel	311-1358-6-ND	1u	CERAMIC CAPACI	Yageo	CC0805ZRY5V8BB	2	USD	2	0.15	
C14	Tape and Reel	311-1703-6-ND	10n	Cap Ceramic 0.01	Yageo	CC0402KRX7R6BB	1	USD	1	0.1	
C15	Tape and Reel	311-2084-6-ND	10u	Cap Ceramic 10uF	Yageo	CC0805KRX5R5BB	1	USD	1	0.2	
D1, D2, D3, D4, D5, D6, D7, D8	Tape and Reel	VLMS1500-GS08D	LED0402_RED	Led red	Vishay	VLMS1500-GS08	60	USD	60	0.346	
R1, R2, R3, R4, R5, R6, R7, R8,	Tape and Reel	311-62.0LRDKR-N	62	RES SMD 62 OHM	Yageo	RC0402FR-0762R	60	USD	60	0.016	
R61	Tape and Reel	311-47KJRDKR-N	47k	YAGEO - RC0402J	Yageo	RC0402JR-0747KL	1	USD	1	0.1	
R62	Tape and Reel	311-120KJRDKR-N	120k	RES SMD 120K OH	Yageo	RC0402JR-07120K	1	USD	1	0.1	
R63, R64, R65	Tape and Reel	YAG1249DKR-ND	10k	RES SMD 10K OH	Yageo	RC0402FR-0710K	3	USD	3	0.1	
U1, U2, U3	Tray	122-1448-ND	XC9572XL-10VQG	XILINX - XC9572XL	Xilinx	XC9572XL-10VQG	3	USD	3	3.71	
U4	Tape and Reel	296-6501-6-ND	NE555DR	TEXAS INSTRUME	Texas Instruments	NE555DR	1	USD	1	0.36	
U5	Tape and Reel	MCP4725A0T-E/C	MCP4725A0T-E/C	DAC 1-CH Resisto	Microchip	MCP4725A0T-E/C	1	USD	1	0.96	











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board

TMS
TDI
TDO
TCK
GND
VCC