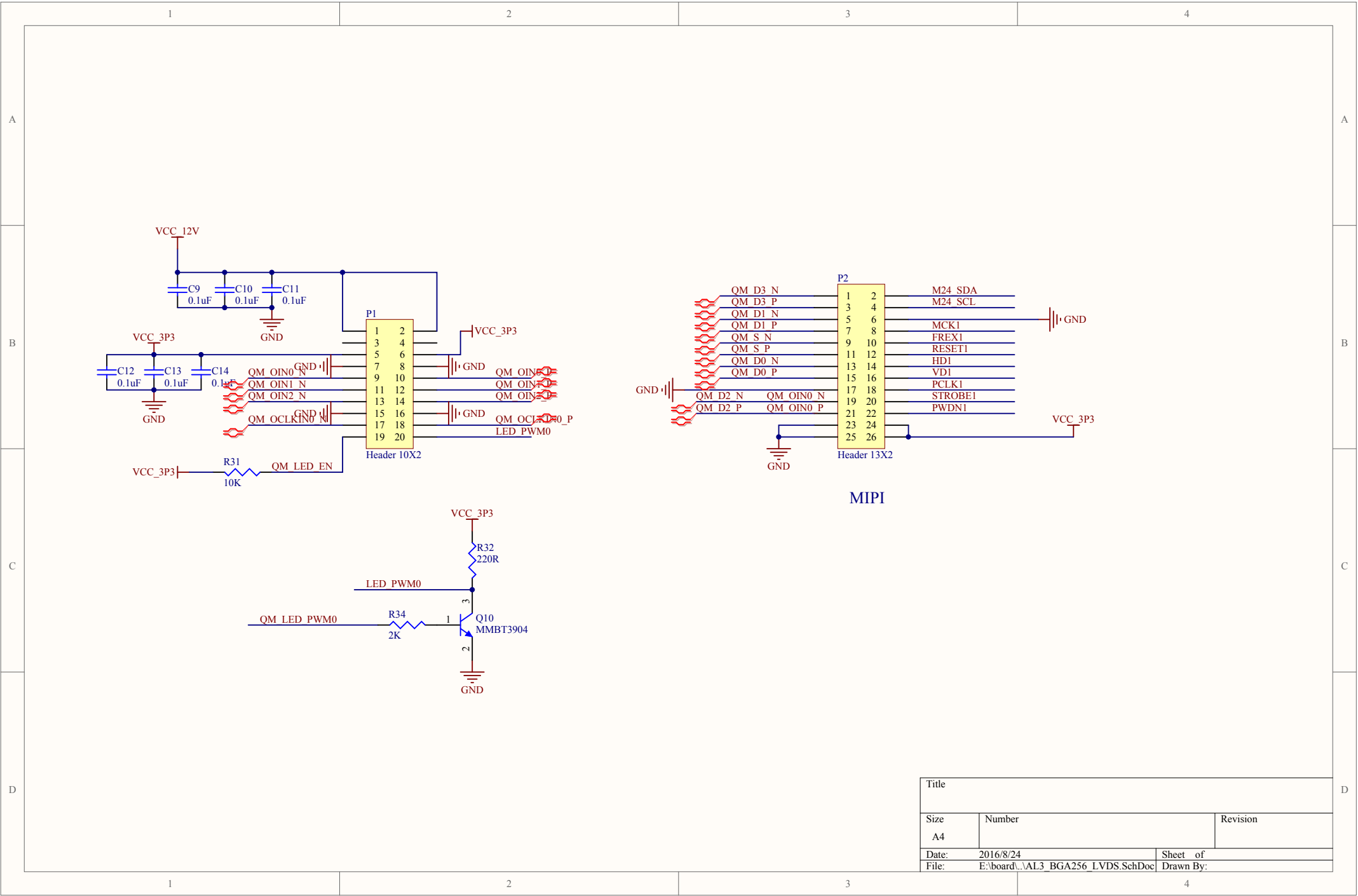
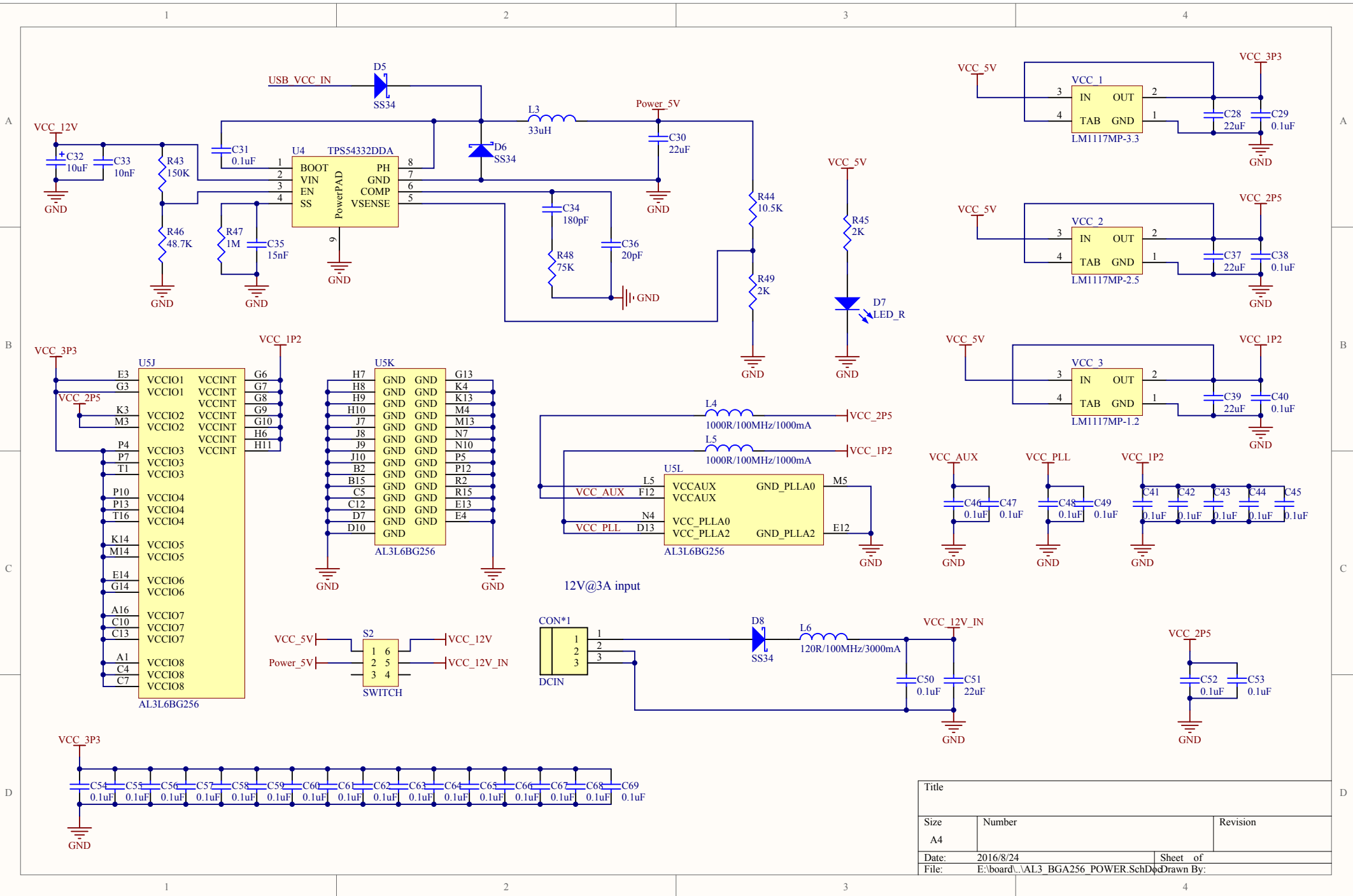


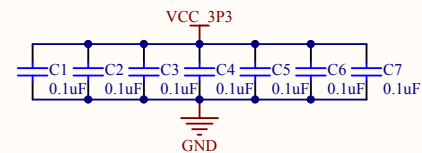
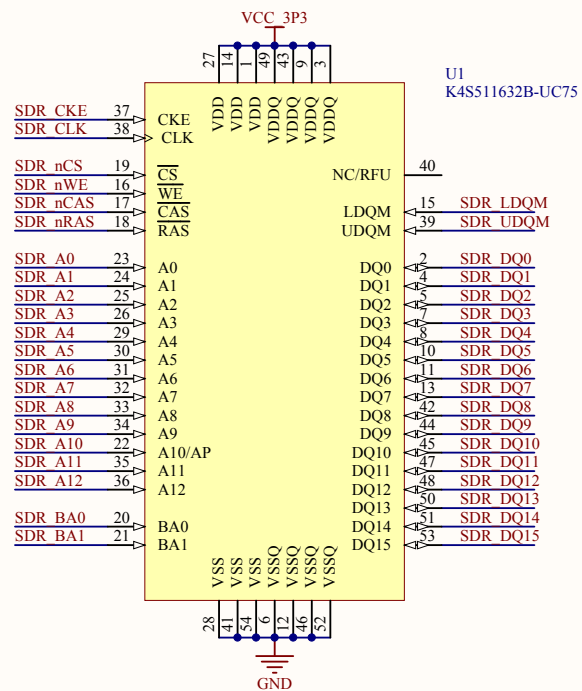
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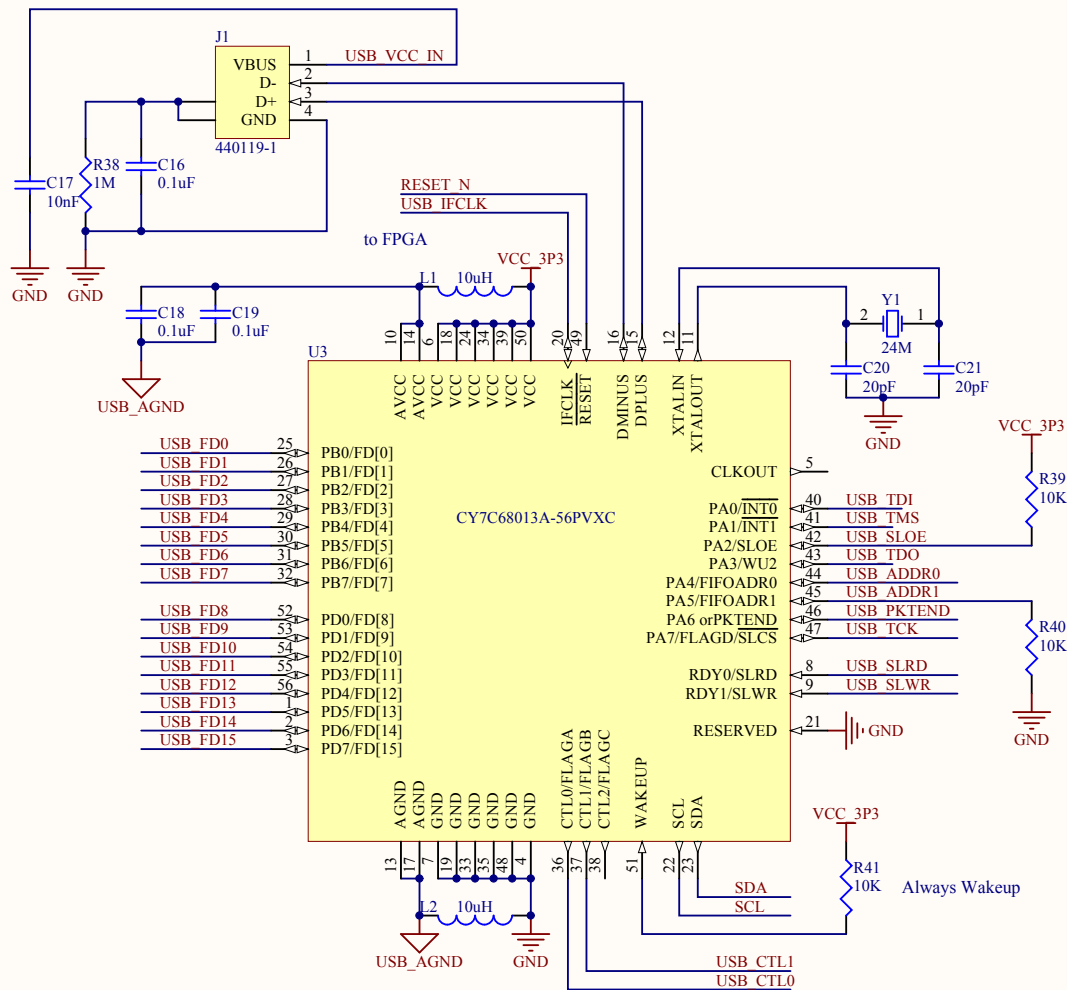
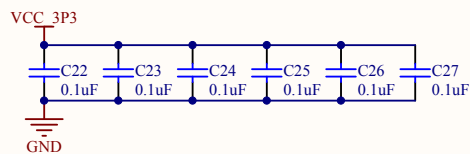
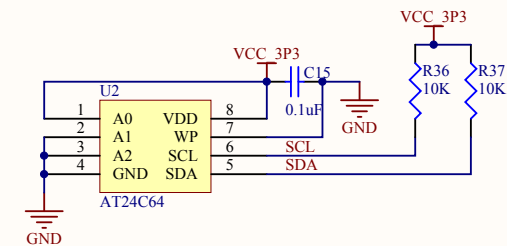
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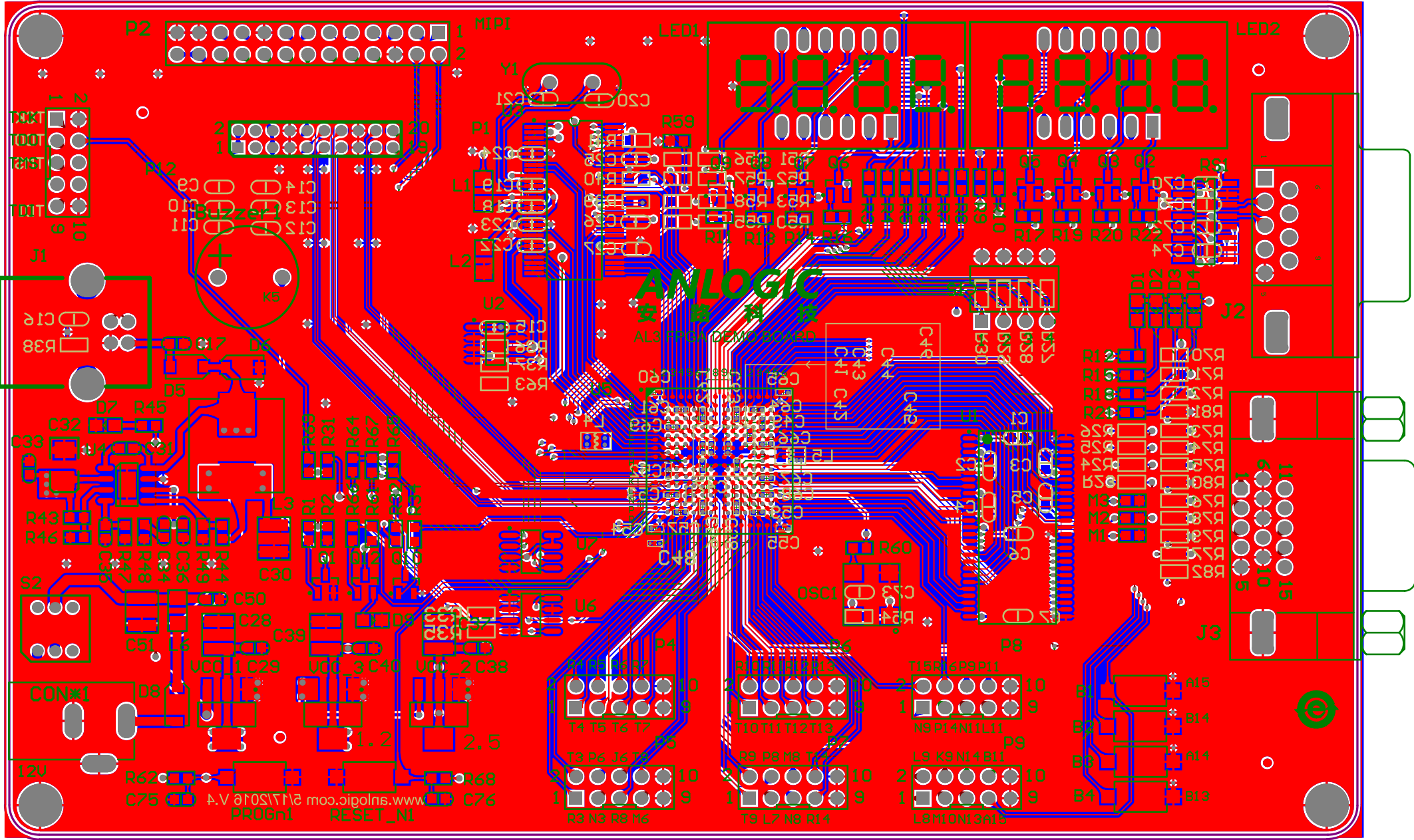
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Title		
Size	Number	Revision
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Date:	2016/8/24	Sheet of
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Comment	Description	Designator	Footprint	LibRef	Quantity
FPGA_HRST	Switch	B1, B2, B3, B4, PROGn1, RESET_N1	SWT022	SW_P8	6
Buzzer	Magnetic Transducer Buzzer	Buzzer1	DB4_2	Buzzer	1
0.1uF	Capacitor	C1, C2, C3, C4, C5, C6, C7, C9, C10, C11, C12, C13, C14, C15, C16, C18, C19, C22, C23, C24, C25, C26, C27, C29, C31, C38, C40, C50, C70, C71, C72, C73, C74, C75, C76	C0603	C	35
10nF	Capacitor	C17, C33	C0603	C	2
20pF	Capacitor	C20, C21, C36	C0603	C	3
22uF	Capacitor	C28, C30, C37, C39, C51	1210	C	5
10uF	Polarized Capacitor (Surface Mount)	C32	3528	Cap Pol	1
180pF	Capacitor	C34	C0603	C	1
15nF	Capacitor	C35	C0603	C	1
0.1uF	Capacitor	C41, C42, C43, C44, C45, C46, C47, C48, C49, C52, C53, C54, C55, C56, C57, C58, C59, C60, C61, C62, C63, C64, C65, C66, C67, C68, C69	0402	C	27
DCIN		CON1	KLD3-0202	DCIN	1
LED_G	Typical RED, GREEN, YELLOW, AMBER GaAs LED	D1, D2, D3, D4	LED0805	LED	4
SS34	Schottky Diode	D6, D6, D8	C0678	D Schottky	3
LED_R	Typical RED, GREEN, YELLOW, AMBER GaAs LED	D7, D9	LED0805	LED	2
440119-1	USB 1.1, Right Angle, Through Hole, B Type, Receptacle, 4 Position, Beige	J1	USB-RIGHT B	440119-1	1
D Connector 9	Receptacle Assembly, 9 Position, Right Angle	J2	DSUB1.385-2H9	D Connector 9	1
Connector 15	Receptacle Assembly, 15-Pin, Slim Line Connector	J3	VGA_CON	Connector 15	1
10uH	Inductor	L1, L2	1206	L	2
0.1uH	Inductor	L3	C10147	L	1
1000V/100mH/10.00mH	Inductor	L4, L5	F08005	L	2
100V/100mH/2.000mA	Inductor	L6	1206	L	1
LED4	LED1, LED2	LED1, LED2	led400	LED4	2
10K	Resistor	R1, R2, R3, R21, R23, R24, R25, R26, R27, R28, R29, R30, R31, R36, R37, R39, R40, R41, R54, R59, R61, R62, R63, R64, R65, R67, R68	R0603	R	27
OSC25M	OSC 4pin	OSC1	OSC003	OSC	1
Header 10X2	Header, 10-Pin, Dual In-Line	P1	HDR2X10_2mm	Header 10X2	1
Header 13X2	Header, 13-Pin, Dual In-Line	P2	HDR2X13	Header 13X2	1
Header 5X2	Header, 5-Pin, Dual In-Line	P4, P5, P6, P7, P8, P9, P12	HDR2X5	Header 5X2	7
MMBT3904	NPN MMBT3904	Q1, Q10, Q12	SOT23_N	MMBT3904	3
MMBT3906	PNP Switching Transistor	Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9	SOT23_N	MMBT3906	8
2K	Resistor	R11, R11, R13, R14, R16, R17, R19, R20, R22, R34, R43, R48, R56, R70, R73	R0603	R	15
220R	Resistor	R3, R4, R5, R6, R7, R8, R9, R10, R12, R15, R18, R21, R22	R0603	R	13
0R	Resistor	R33, R35, R50, R51, R52, R53, R55, R56, R57, R58	R0603	R	10
1M	Resistor	R36, R47	R0603	R	2
100K	Resistor	R43	R0603	R	1
10.5K	Resistor	R44	R0603	R	1
48.7K	Resistor	R46	R0603	R	1
75K	Resistor	R48	R0603	R	1
22R	Resistor	R60, R69	R0603	R	2
1K	Resistor	R71, R74, R76	R0603	R	3
500	Resistor	R72, R75, R78	R0603	R	3
47R	Resistor	R77, R82	R0603	R	2
75	Resistor	R79, R80, R81	R0603	R	3
MAX3222ESE	3.3V TO 5.5V, Low Power, up to 1Mbps, True RS-232 Transceiver Using Four 0.1uF External Capacitors	RS1	SOIC16	MAX3222ESE	1
SW-DIP4	DIP Switch	S1	DIP-8	SW-DIP4	1
SWITCH1	ST20b Synchronous High Data Rate DRAM, 8Mb x 16Bt x 4 Banks, 54-Pin TSOP Pb-Free	S2	SWITCH1_DIP6	SWITCH1_6	1
K45S11632B-UC75	ST20b Synchronous High Data Rate DRAM, 8Mb x 16Bt x 4 Banks, 54-Pin TSOP Pb-Free	U1	64_TSOP2_400AF_N	K45S11632B-UC75	1
AT24C04	AT24C256 EEPROM	U2	SO8_N	AT24C256	1
CY7C08013A-66PVC	EZ-USB FX2LP USB Microcontroller Ideal for Non-Battery Powered Applications 19K RAM, 24 I/Os, 56-Pin SSOP, Pb-Free, Commercial Grade	U3	C56	CY7C08013A-66PVC	1
TPS54332DDA	TPS54332DDA	U4	SOIC8-PPAD	TPS54332DDA	1
AL3L68G256	Atmega164A-184 I/O Pins, 2 PLLs, 256-Pin PBGA	U5	PBGA256	AL3L68G256	1
M24C02MN6	2Kbit Serial Bus EEPROM	U6	SO8_N	M24C02MN6	1
M25P16	EPCS16S8N	U7	SO8_N	EPCS16S8N	1
LM1117MP-3.3	800mA Low Dropout Linear Regulator	VOC_1	MP04A_N	LM1117MP-3.3	1
LM1117MP-2.5	800mA Low Dropout Linear Regulator	VOC_2	MP04A_N	LM1117MP-3.3	1
LM1117MP-1.2	800mA Low Dropout Linear Regulator	VOC_3	MP04A_N	LM1117MP-3.3	1
24M	Crystal Oscillator	Y1	OSC2PR-1	XTAL	1