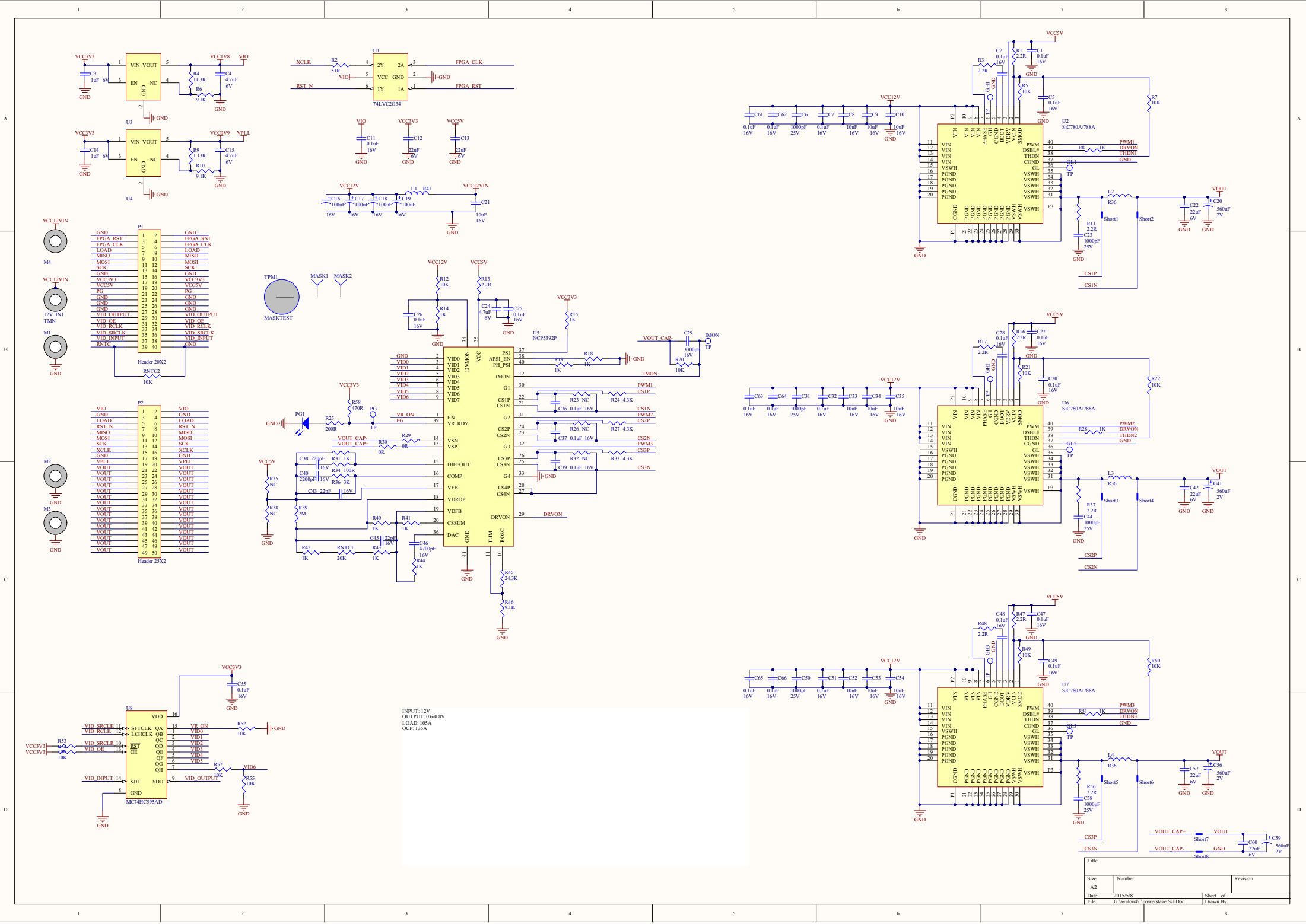
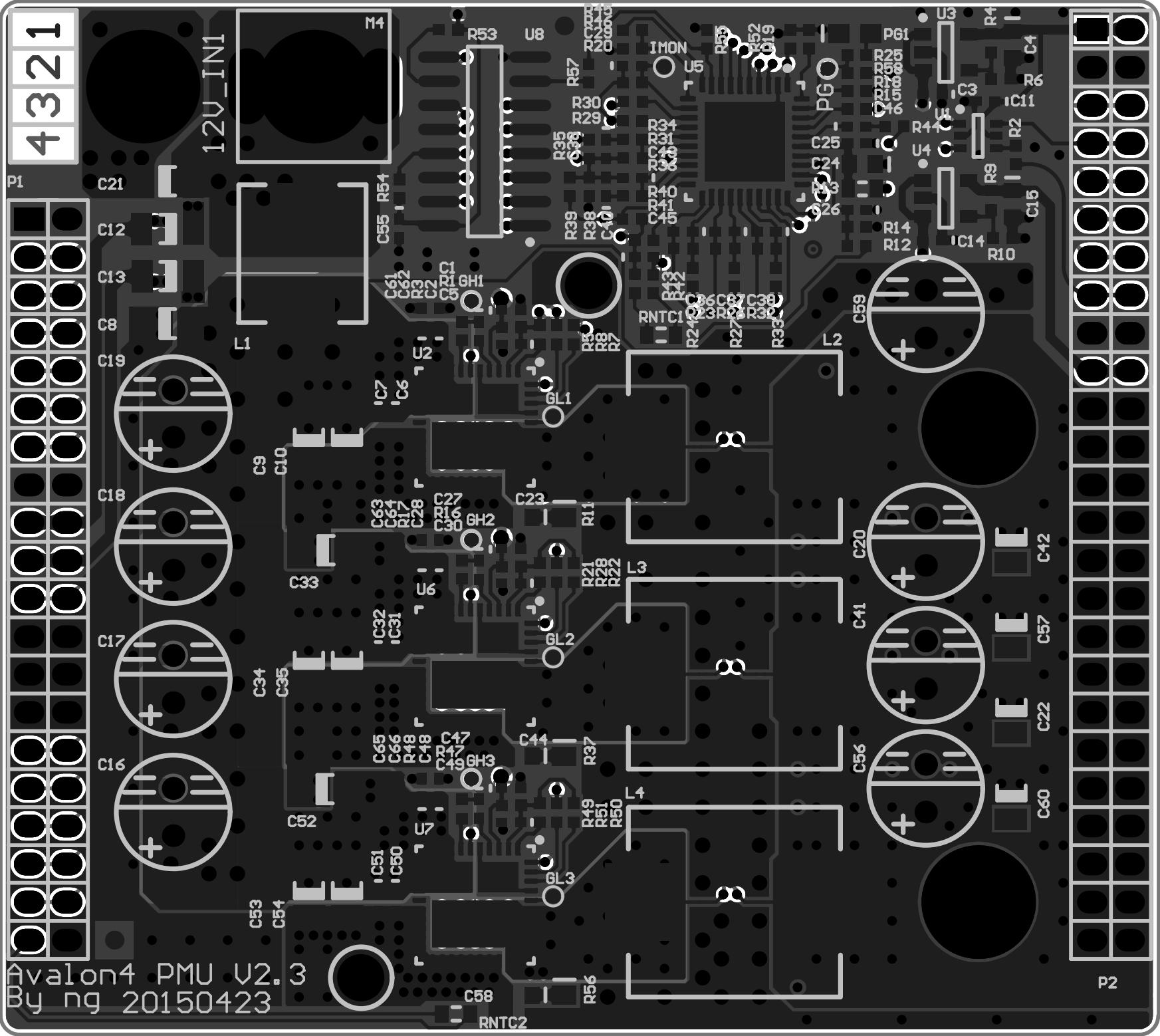




INPUT: 12V
OUTPUT: 0.6-0.8V
LOAD: 105A
OCP: 135A

Title		
Size	Number	Revision
A2		
Date:	2015/5/8	Sheet of
File:	G:\avalon\powerstage\SchDoc	Drawn By:



Comment	Description	Designator	Footprint	LibRef	Quantity	Value	Voltage
TMN		12V_IN1	TMN2	TMN	1		
0.1uF	Capacitor (Semiconductor SIM Model)	C1, C2, C5, C7, C11, C25, C26, C27, C28, C30, C32, C36, C37, C39, C47, C48, C49, C51, C55, C61, C62, C63, C64, C65, C66	CAPC1005L	Cap Semi	25	0.1uF	16V
1uF	Capacitor (Semiconductor SIM Model)	C3, C14	CAPC1005L	Cap Semi	2	1uF	6V
4.7uF	Capacitor (Semiconductor SIM Model)	C4, C15, C24	CAPC1608L	Cap Semi	3	4.7uF	6V
1000pF	Capacitor (Semiconductor SIM Model)	C6, C31, C50	CAPC1005L	Cap Semi	3	1000pF	25V
10uF	Capacitor (Semiconductor SIM Model)	C8, C9, C10, C21, C33, C34, C35, C52, C53, C54	CAPC3216L	Cap Semi	10	10uF	16V
22uF	Capacitor (Semiconductor SIM Model)	C12, C13, C22, C42, C57, C60	CAPC3216L	Cap Semi	6	22uF	6V
100uF	Polarized Capacitor (Surface Mount)	C16, C17, C18, C19	CAP6X6	Cap Pol3	4	100uF	16V
560uF	Polarized Capacitor (Surface Mount)	C20, C41, C56, C59	CAP6X6	Cap Pol3	4	560uF	2V
1000pF	Capacitor (Semiconductor SIM Model)	C23, C44, C58	CAPC1608L	Cap Semi	3	1000pF	25V
3300pF	Capacitor (Semiconductor SIM Model)	C29	CAPC1005L	Cap Semi	1	3300pF	16V
220pF	Capacitor (Semiconductor SIM Model)	C38	CAPC1005L	Cap Semi	1	220pF	16V
2200pF	Capacitor (Semiconductor SIM Model)	C40	CAPC1005L	Cap Semi	1	2200pF	16V
22pF	Capacitor (Semiconductor SIM Model)	C43, C45	CAPC1005L	Cap Semi	2	22pF	16V
4700pF	Capacitor (Semiconductor SIM Model)	C46	CAPC1005L	Cap Semi	1	4700pF	16V
TP		GH1, GH2, GH3, GL1, GL2, GL3, IMON, PG	TP	TP	8		
IHLP4040DZ11	Inductor	L1	IHLP2525	Inductor	1	R47	
IHLP4040DZ11	Inductor	L2, L3, L4	PRIME-104T	Inductor	3	R36	
Mount Hole		M1, M2, M3, M4	MHOLE1	M_Hole	4		
Socket	Socket	MASK1, MASK2	MASK_LT	Socket	2		
Header 20X2	Header, 20-Pin, Dual row	P1	ENG_CD_178696, A_40	Header 20X2	1		
Header 25X2	Header, 25-Pin, Dual row	P2	ENG_CD_178696, A_50	Header 25X2	1		
LED3	Typical GREEN SIC LED	PG1	CD1608-0603	LED3	1		
2.2R	Resistor	R1, R3, R16, R17, R47, R48	RESC1005L	Res3	6	2.2R	
51R	Resistor	R2	RESC1005L	Res3	1	51R	
11.3K	Resistor	R4	RESC1005L	Res3	1	11.3K	
10K	Resistor	R5, R7, R12, R20, R21, R22, R49, R50, R52, R53, R54, R55, R57	RESC1005L	Res3	13	10K	
9.1K	Resistor	R6, R10, R46	RESC1005L	Res3	3	9.1K	
1K	Resistor	R8, R14, R15, R18, R19, R28, R31, R40, R41, R42, R43, R44, R51	RESC1005L	Res3	13	1K	
1.13K	Resistor	R9	RESC1005L	Res3	1	1.13K	
2.2R	Resistor	R11, R37, R56	RESC2012L	Res3	3	2.2R	
2.2R	Resistor	R13	RESC1608L	Res3	1	2.2R	
NC	Resistor	R23, R26, R32, R35, R38	RESC1005L	Res3	5	NC	
4.3K	Resistor	R24, R27, R33	RESC1005L	Res3	3	4.3K	
200R	Resistor	R25	RESC1005L	Res3	1	200R	
0R	Resistor	R29, R30	RESC1005L	Res3	2	0R	
100R	Resistor	R34	RESC1005L	Res3	1	100R	
3K	Resistor	R36	RESC1005L	Res3	1	3K	
2M	Resistor	R39	RESC1005L	Res3	1	2M	
24.3K	Resistor	R45	RESC1005L	Res3	1	24.3K	
470R	Resistor	R58	RESC1005L	Res3	1	470R	
20K	Resistor	RNTC1	RESC1608L	Res3	1	20K	
10K	Resistor	RNTC2	RESC1608L	Res3	1	10K	
Short	Short PAD	Short1, Short2, Short3, Short4, Short5, Short6, Short7, Short8	short7	Short	8		
MASKTEST		TPM1	MASKTEST	MASKTEST	1		
74LVC2G34		U1	SOT363_L	74LVC2G34	1		
SiC780A/788A	Integrated DrMOS Power Stage	U2, U6, U7	MLP66-40L	SiC780	3		
LDO	600mA, Ultra-Low Dropout, CMOS Regulatorout Bypass Capacitor CMOS LDO Regulator	U3, U4	SOT23-SAL	RT9187C	2		
NCP5392P	2/3/4-Phase Controller for CPU Applications	U5	QFN50P600X600- 40V2L	NCP5392p	1		
MC74HC595AD	8-Bit Serial-Input	U8	751B-05_N	MC74HC595AD	1		