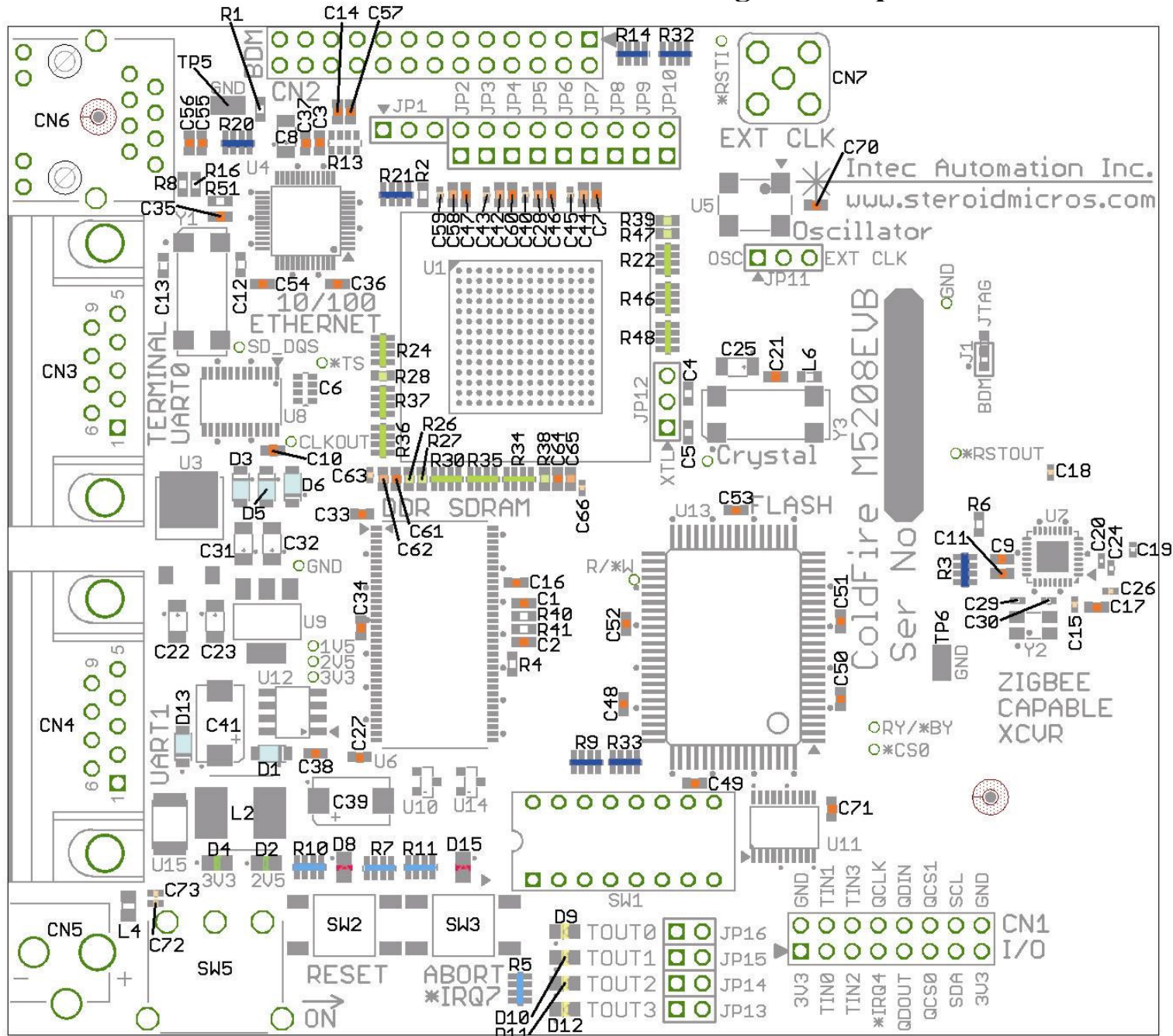


Qty	Value	Device	Manufacturer	Part Number	Ref ID
1	MC13192	MC13192	Freescale	MC13192FC	U7
1	MCF5208	MCF5208	Freescale	MCF5208CVM66	U1
1	DP83848	DP83848	National Semi	DP83848VV	U4
1	LM2675	LM2675	National Semi	LM2675M-3.3	U12
1	MT46V16M16	MT46V16M16	Micron	MT46V16M16	U6
1	AM29BDD160G	IDT71T016SA12PH	AMD	AM29BDD160GT64DKI	U13
1	IDT71T016SA12PH	IDT71T016SA12PH	IDT	IDT71T016SA12PH	U2
1	SP3249EY	SP3249EY	Sipex	SP3249EY	U8
1	SPX1117M3	SPX1117M3	Sipex	SPX1117M3-1.5	U9
1	LD29080DT25	LD29080	STElectronics	LD29080DT25	U3
1	LVX573	74XX573T	Fairchild Semi	74LVX573MTC	U11
2	MCP130	MCP130	MicroChip	MCP130T-315I/TT	U10, U14
1	FUSE-PTC	FUSE-PTC	Raychem	miniSMDC050	U15
1	FB1K0/100ma	L-SMT-0603	Murata	BLM18AG102SN1D	L6
1	0805FB200z/1a	L-SMT-0805	Murata	BLM21P221SGPT	L4
1	47uH/1A/0R2	IND_DN8155	Coev	DN8155-470K	L2
4	Amber	LED-0805	Lite-On	LTST-C170KFKT	D9, D10, D11, D12
2	Green	LED-0805	Lite-On	LTST-C170KGKT	D2, D4
2	Red	LED-0805	Lite-On	LTST-C170KRKT	D8, D15
5	0.4V/1a/30Vmax	DIODE-CRS05	MCC	MBRX130	D1, D3, D5, D6, D13
1	16.000MHz	MA-406	Citizen	CM309S-16.000MABJTR	Y3
1	16.000MHz	TSX-4025	Toyocom	TSX-4025	Y2
1	25.000MHz	MA-406	Fox	FPX-250F-20	Y1
1	16MHz	CSX-750F	Fox	F4100-160 oscillator	U5
1	1.5pF GOG +/-0.25pF	CAP-0402	Rohm	MCH155A1R5CK	C19
2	10pF COG 5%	CAP-0402	CalChip	GMC04CG100K25NT	C29, C30
2	18pF COG 5%	CAP-0402	Murata	GRM1555C1H180JZ01D	C20, C24
2	22pF COG 5%	CAP-0603	AVX	06035A220JAT2A	C4, C5
2	39pF COG 5%	CAP-0603	TDK	C1608COG1H390J	C12, C13
11	220pF COG 10%	CAP-0402	Rohm	MCH155A221JK	C15, C18, C26, C40, C43, C45, C59, C63, C66, C72, C73
6	1nF COG 10%	CAP-0603	AVX	06035A102JAT2A	C28, C42, C44, C58, C62, C65
35	0.1uF X7R	CAP-0603	Rohm	MCH182CN104KK	C1, C2, C3, C7, C9, C10, C11, C14, C16, C17, C21, C27, C33, C34, C35, C36, C37, C38, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C60, C64, C70, C71
1	0.1uF X7R	4XCAP603	NIC	NCA1206X7R104K16TR	C6
1	4.7uF/50V/0R36	CAP_TANT_D	Vishay	293D475X9050D2T	C41
6	10uF/6.3v/0.5R	CAP_TANT_Y	Kemet	T491A106K006AS	C8, C22, C23, C25, C31, C32
1	100uF/10V/0.15R	CAP_TANT_D	Vishay	593D107X9010D2T	C39

Qty	Value	Device	Manufacturer	Part Number	Ref ID
1	0R0	RES-0603	Rohm	MCR03EZPJ000	J1
9	22R0	4XRES603	CalChip	CN34J220CT	R22, R24, R30, R34, R35, R36, R37, R46, R48
6	22R0	RES-0603	Vishay	CRCW0603-22R0FRT1	R26, R27, R28, R38, R39, R47
1	49.9, 1%	4XRES603	CTS	742C083510JTR	R13
2	100	RES-0603	Rohm	MCR03EZHZ101	R2, R4
2	150	RES-0603	Rohm	MCR03EZHZ151	R8, R16
4	150	4XRES603	CalChip	CN34J151CT	R5, R7, R10, R11
1	1K5	RES-0603	CalChip	RM06F1501CT	R51
1	4K87, 1%	RES-0603	CalChip	RM06F4871CT	R1
1	10K	RES-0603	Vishay	CRCW0603-1002FRT1	R6
2	10K, 1%	RES-0603	Vishay	CRCW0603-1002FRT1	R40, R41
7	10K	4XRES603	CalChip	CN34J103CT	R3, R9, R14, R20, R21, R32, R33
1	DIPSW	DIPSW	Amp Alco	435640-5	SW1
2	PBSW05	PBSW05	ITT Cannon	KSC421G	SW2, SW3
1	1101M2SXA	1101M2SXA	ITC	1101M2S3AQE2	SW5
13	1X2	Header	Mode	36-280G-0 2x40 straight double row	JP2, JP3, JP4, JP5, JP6, JP7, JP8, JP9, JP10, JP13, JP14, JP15, JP16
3	1X3	Header	Mode	36-140G-0 1x40 single strip	JP1, JP11, JP12
1	2X8	Header	Mode	36-280G-0 2x40 straight double row	CN1
1	2X13	Header	Mode	36-280G-0 2x40 straight double row	CN2
2	DB9F/90	DB9F/90	Mode	30-420-0	CN3, CN4
1	HFJ11-2450E	RJ45MAG	Tyco	5-1605473-7	CN6
1	PWR_J	PWR_J	Mode	31-155-0 2.1mm power jack	CN5
1	SMA	SMA	Amphenol	901-9894-RFX	CN7
2	TEST_LOOP	TEST_LOOP	Keystone	5015	TP5, TP6
14		40X30_VIA_UNMASKED		Unmasked vias	TP1, TP2, TP3, TP4, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16
2	ANT_DIPOLE	ANT_DIPOLE		Etched antennas	ANT1, ANT2

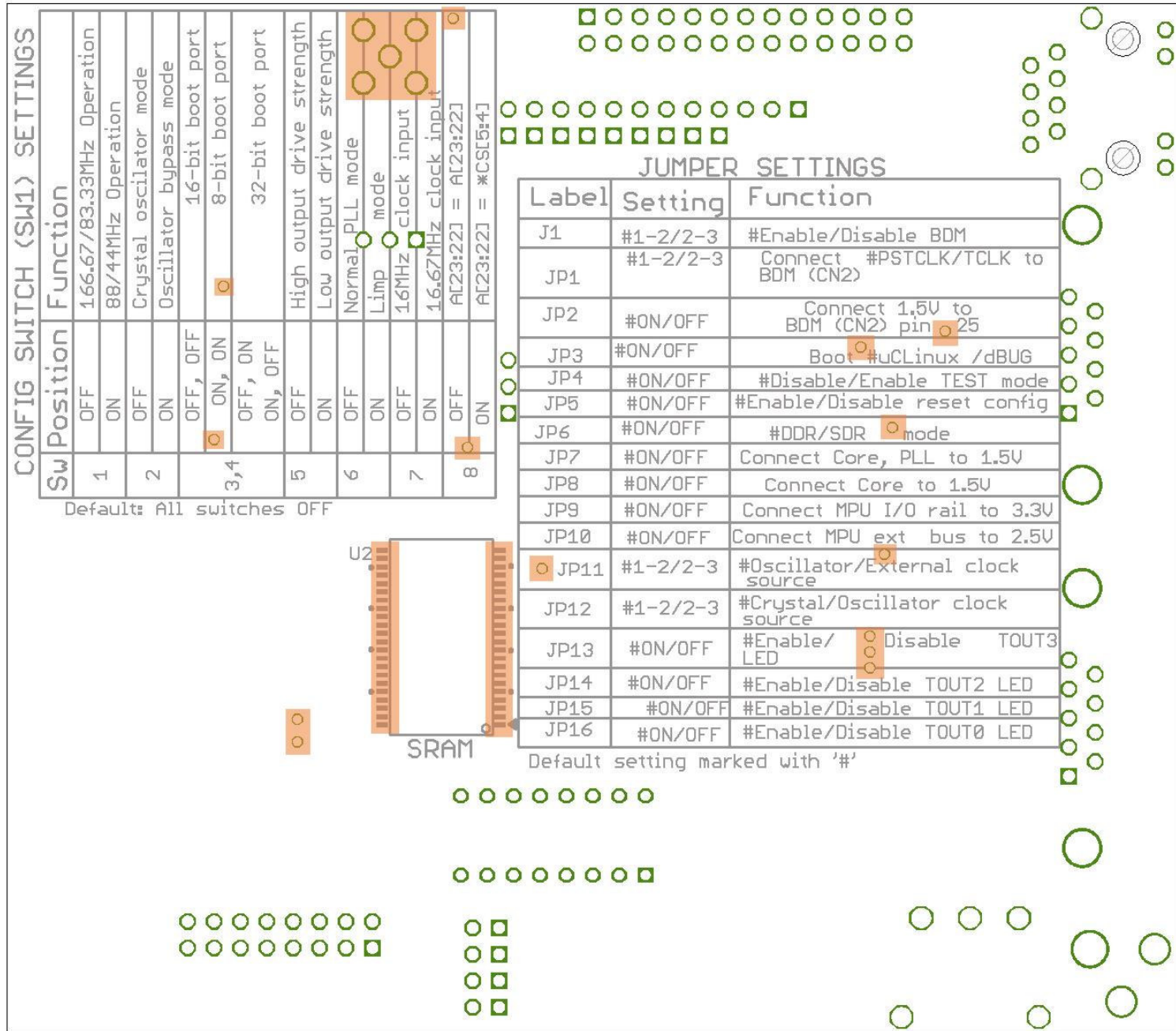


# M5208EVB RevB Placement Diagram - Top





# M5208EVB RevB Placement Diagram - Bottom





## **M5208EVB RevB Special Instructions**

- 1) Excluding populated thru-hole pads, mask all exposed copper on bottom of board before wave soldering. Masked areas shown in orange on Page 2 in “M5208EVB RevB Placement Diagram – Bottom.”
- 2) Watch out for solder drainage into vias under U7.



## M5208EVB RevB BOM

Fiducial Markings				X (Inch)	Y (Inch)	
F1		FIDUCIARY		3.800	0.920	
F2		FIDUCIARY		0.350	3.550	

Surface Mount Parts						
Part	Value	Package	IAI Part No.	X (Inch)	Y (Inch)	Orientation
C6	0.1uF	4XARRAY	ZC0U1X4A	1.150	2.500	R90
C1	0.1uF	SMT-0603	ZCOU1S	1.995	1.670	R180
C2	0.1uF	SMT-0603	ZCOU1S	1.995	1.520	R0
C3	0.1uF	SMT-0603	ZCOU1S	1.205	3.450	R270
C7	0.1uF	SMT-0603	ZCOU1S	2.275	3.250	R270
C9	0.1uF	SMT-0603	ZCOU1S	3.845	1.840	R0
C10	0.1uF	SMT-0603	ZCOU1S	1.025	2.260	R180
C11	0.1uF	SMT-0603	ZCOU1S	3.845	1.785	R0
C14	0.1uF	SMT-0603	ZCOU1S	1.275	3.570	R270
C16	0.1uF	SMT-0603	ZCOU1S	1.965	1.750	R0
C17	0.1uF	SMT-0603	ZCOU1S	4.210	1.655	R180
C21	0.1uF	SMT-0603	ZCOU1S	2.970	2.545	R180
C27	0.1uF	SMT-0603	ZCOU1S	1.360	1.075	R180
C33	0.1uF	SMT-0603	ZCOU1S	1.370	2.015	R180
C34	0.1uF	SMT-0603	ZCOU1S	1.364	1.575	R90
C35	0.1uF	SMT-0603	ZCOU1S	0.820	3.165	R0
C36	0.1uF	SMT-0603	ZCOU1S	1.275	2.905	R0
C37	0.1uF	SMT-0603	ZCOU1S	1.150	3.450	R270
C38	0.1uF	SMT-0603	ZCOU1S	1.190	1.090	R180
C46	0.1uF	SMT-0603	ZCOU1S	2.100	3.250	R270
C47	0.1uF	SMT-0603	ZCOU1S	1.770	3.250	R270
C48	0.1uF	SMT-0603	ZCOU1S	2.380	1.280	R90
C49	0.1uF	SMT-0603	ZCOU1S	2.655	0.974	R0
C50	0.1uF	SMT-0603	ZCOU1S	3.220	1.300	R270
C51	0.1uF	SMT-0603	ZCOU1S	3.220	1.600	R270
C52	0.1uF	SMT-0603	ZCOU1S	2.390	1.590	R90
C53	0.1uF	SMT-0603	ZCOU1S	2.815	2.030	R180
C54	0.1uF	SMT-0603	ZCOU1S	0.985	2.905	R0
C55	0.1uF	SMT-0603	ZCOU1S	0.750	3.450	R90
C56	0.1uF	SMT-0603	ZCOU1S	0.700	3.450	R90
C57	0.1uF	SMT-0603	ZCOU1S	1.325	3.570	R270
C60	0.1uF	SMT-0603	ZCOU1S	1.950	3.250	R270
C61	0.1uF	SMT-0603	ZCOU1S	1.500	2.150	R90
C64	0.1uF	SMT-0603	ZCOU1S	2.125	2.150	R90
C70	0.1uF	SMT-0603	ZCOU1S	3.125	3.210	R180
C71	0.1uF	SMT-0603	ZCOU1S	3.185	0.875	R90
C28	1nF	SMT-0603	ZC1N0	2.050	3.250	R270
C42	1nF	SMT-0603	ZC1N0	1.900	3.250	R270
C44	1nF	SMT-0603	ZC1N0	2.225	3.250	R270
C58	1nF	SMT-0603	ZC1N0	1.720	3.250	R270



## M5208EVB RevB BOM

C62	1nF	SMT-0603	ZC1N0	1.450	2.150	R90
C65	1nF	SMT-0603	ZC1N0	2.175	2.150	R90
C4	22pF	SMT-0603	ZMC22P0S	2.630	2.480	R90
C5	22pF	SMT-0603	ZMC22P0S	2.630	2.330	R270
C12	39pF	SMT-0603	ZC39P0	0.900	2.980	R90
C13	39pF	SMT-0603	ZC39P0	0.600	2.975	R90
C19	1.5pF	SMT-0402	ZC1P5t	4.351	1.877	R90
C29	10pF	SMT-0402	ZC10P0t	3.905	1.680	R0
C30	10pF	SMT-0402	ZC10P0t	4.025	1.680	R180
C20	18pF	SMT-0402	ZC18Pt	4.228	1.833	R90
C24	18pF	SMT-0402	ZC18Pt	4.267	1.806	R90
C15	220pF	SMT-0402	ZC220Pt	4.125	1.665	R90
C18	220pF	SMT-0402	ZC220Pt	4.032	2.176	R90
C26	220pF	SMT-0402	ZC220Pt	4.263	1.717	R0
C40	220pF	SMT-0402	ZC220Pt	2.000	3.250	R270
C43	220pF	SMT-0402	ZC220Pt	1.850	3.250	R270
C45	220pF	SMT-0402	ZC220Pt	2.175	3.250	R270
C59	220pF	SMT-0402	ZC220Pt	1.670	3.250	R270
C63	220pF	SMT-0402	ZC220Pt	1.400	2.165	R90
C66	220pF	SMT-0402	ZC220Pt	2.220	2.115	R90
C72	220pF	SMT-0402	ZC220Pt	0.570	0.525	R180
C73	220pF	SMT-0402	ZC220Pt	0.570	0.575	R180
C22	10uF, 6.3V	CAP TANT Y	ZC10U6V3A	0.655	1.600	R270
C23	10uF, 6.3V	CAP TANT Y	ZC10U6V3A	0.800	1.600	R270
C31	10uF, 6.3V	CAP TANT Y	ZC10U6V3A	0.910	1.900	R90
C32	10uF, 6.3V	CAP TANT Y	ZC10U6V3A	1.020	1.900	R90
C8	10uF, 6.3V	CAP TANT Y	ZC10U6V3A	1.075	3.475	R90
C25	10uF, 6.3V	CAP TANT Y	ZC10U6V3A	2.820	2.585	R180
C39	100uF/10V 0R15	CAP TANT D	ZC100U10VD	1.320	0.900	R180
C41	4.7uF/50V 0R36	CAP TANT D	ZC4U750VD	0.825	1.200	R270
D9	LED-0805 - Amber	LED-0805	ZLEDOS	2.155	0.400	R180
D10	LED-0805 - Amber	LED-0805	ZLEDOS	2.155	0.300	R180
D11	LED-0805 - Amber	LED-0805	ZLEDOS	2.155	0.200	R180
D12	LED-0805 - Amber	LED-0805	ZLEDOS	2.155	0.100	R180
D2	LED-0805 - Green	LED-0805	ZLEDGS	1.000	0.665	R180
D4	LED-0805 - Green	LED-0805	ZLEDGS	0.810	0.665	R180
D8	LED-0805 - Red	LED-0805	ZLEDRS	1.300	0.650	R90
D15	LED-0805 - Red	LED-0805	ZLEDRS	1.760	0.650	R90
D1	0.4V/1a/30Vmax	CRS05	ZDCRS05	1.020	1.090	R0
D3	0.4V/1a/30Vmax	CRS05	ZDCRS05	0.900	2.120	R90
D5	0.4V/1a/30Vmax	CRS05	ZDCRS05	1.000	2.120	R90
D6	0.4V/1a/30Vmax	CRS05	ZDCRS05	1.100	2.120	R270
D13	0.4V/1a/30Vmax	CRS05	ZDCRS05	0.675	1.115	R270
L2	47uH/1A 0R2	IND DN8155	ZL47U0R20	0.900	0.860	R180
L4	0805FB200z/1a	SMT-0805	ZFB221R1K	0.465	0.500	R270
L6	FB1K0/100ma	SMT-0603	ZFB102R100	3.100	2.545	R180
J1	0ohm	603 SPLI	ZR0R0S	3.775	2.614	R90



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R26	22	SMT-0603	ZR22RS	1.550	2.150	R90
R27	22	SMT-0603	ZR22RS	1.600	2.150	R90
R28	22	SMT-0603	ZR22RS	1.450	2.550	R0
R38	22	SMT-0603	ZR22RS	2.075	2.150	R90
R39	22	SMT-0603	ZR22RS	2.550	3.150	R180
R47	22	SMT-0603	ZR22RS	2.550	3.100	R180
R22	22	4XARRAY	ZR22RX4	2.550	3.000	R270
R24	22	4XARRAY	ZR22RX4	1.450	2.650	R270
R30	22	4XARRAY	ZR22RX4	1.695	2.150	R0
R34	22	4XARRAY	ZR22RX4	1.975	2.150	R180
R35	22	4XARRAY	ZR22RX4	1.835	2.150	R180
R36	22	4XARRAY	ZR22RX4	1.450	2.300	R270
R37	22	4XARRAY	ZR22RX4	1.450	2.450	R270
R46	22	4XARRAY	ZR22RX4	2.550	2.850	R270
R48	22	4XARRAY	ZR22RX4	2.550	2.700	R90
R13	49.9 1%	4XARRAY	ZR49R9X4	1.300	3.450	R0
R2	100	SMT-0603	ZR100RS	1.605	3.250	R90
R4	100	SMT-0603	ZR100RS	1.950	1.435	R90
R8	150	SMT-0603	ZR150RS	0.675	3.290	R270
R16	150	SMT-0603	ZR150RS	0.725	3.290	R270
R5	150	4XARRAY	ZR150RX4	1.980	0.180	R270
R7	150	4XARRAY	ZR150RX4	1.435	0.645	R180
R10	150	4XARRAY	ZR150RX4	1.165	0.650	R180
R11	150	4XARRAY	ZR150RX4	1.595	0.650	R180
R51	1K5	SMT-0603	ZR1K5S1%	0.820	3.225	R180
R1	4K87 1%	SMT-0603	ZR4K87	0.975	3.580	R270
R6	10K	SMT-0603	ZR10K1%S	3.755	1.975	R270
R40	10K 1%	SMT-0603	ZR10K1%S	1.995	1.620	R0
R41	10K 1%	SMT-0603	ZR10K1%S	1.995	1.570	R180
R3	10K	4XARRAY	ZR10K0X4I	3.700	1.800	R270
R9	10K	4XARRAY	ZR10K0X4I	2.235	1.055	R0
R14	10K	4XARRAY	ZR10K0X4I	2.415	3.795	R0
R20	10K	4XARRAY	ZR10K0X4I	0.888	3.450	R0
R21	10K	4XARRAY	ZR10K0X4I	1.500	3.250	R0
R32	10K	4XARRAY	ZR10K0X4I	2.580	3.795	R0
R33	10K	4XARRAY	ZR10K0X4I	2.385	1.055	R180
SW2	PBSW05	PBSW6X6	ZSWTAC	1.300	0.425	R90
SW3	PBSW05	PBSW6X6	ZSWTAC	1.760	0.425	R90
TP5	TEST_LOOP	TEST_LOOP	ZTP	0.850	3.595	R0
TP6	TEST_LOOP	TEST_LOOP	ZTP	3.610	1.440	R90
U1	MCF5208	MAPBGA-196	ZCF5208	2.000	2.700	R0
U3	LD29080DT25	TO-252	ZVREG29080-2v5	0.700	2.070	R0
U4	DP83848	LQFP48	ZDP83848	1.150	3.150	R90
U5	16MHz	OSCIL 5X7	ZOSC16M	2.888	3.212	R180
U6	MT46V16M16	TSOP2-66	ZDDR16M16	1.650	1.550	R270
U7	MC13192	QFN-32_MC13192	ZZB13192	4.040	1.850	R180
U8	SP3249EY	TSSOP24	Z3249T	0.900	2.450	R180





## M5208EVB RevB BOM

U9	SPX1117M3	SOT-223	ZVREG117-1v5	1.000	1.600	R180
U10	MCP130	SOT-23	ZMMCP1303	1.620	0.980	R90
U11	LVX573	TSSOP-20	Z573T	3.000	0.805	R0
U12	LM2675	SO-8	ZVREG2675-3v3	1.100	1.250	R90
U13	AM29BDD160G	QFP-80	ZFLASH2M2V5	2.805	1.500	R90
U14	MCP130	SOT-23	ZMMCP1303	1.790	0.980	R90
U15	FUSE-PTC	FUSE_PTC	ZFUSE	0.625	0.815	R90
Y1	25.000MHz	MA-406	ZXTAL25MS	0.750	2.875	R270
Y2	16.000MHz	TSX-4025	ZXTAL16MQ	3.965	1.585	R0
Y3	16.000MHz	MA-406	ZXTAL16M	2.930	2.400	R0

Thru-hole parts						
Part	Value	Package	IAI Part No.	X (Inch)	Y (Inch)	Orientation
CN1	I/O Header	2X8	ZH2X40S	3.415	0.375	R0
CN2	BDM Header	2X13	ZH2X40S	1.650	3.800	R0
CN3	DB9F/90	D-09F/90	ZDB9RT	0.375	2.570	R90
CN4	DB9F/90	D-09F/90	ZDB9RT	0.375	1.195	R90
CN5	PWR_J	PWR_J	ZPJ2.1	0.100	0.320	R180
CN6	HFJ11-2450E	HFJ11-E2450E	ZRJ45ETH	0.220	3.540	R270
JP1	1X3	1X3	ZH1X40S	1.550	3.500	R0
JP2	1X2	1X2	ZH1X40S	1.750	3.450	R90
JP3	1X2	1X2	ZH1X40S	1.850	3.450	R90
JP4	1X2	1X2	ZH1X40S	1.950	3.450	R90
JP5	1X2	1X2	ZH1X40S	2.050	3.450	R90
JP6	1X2	1X2	ZH1X40S	2.150	3.450	R90
JP7	1X2	1X2	ZH1X40S	2.250	3.450	R90
JP8	1X2	1X2	ZH1X40S	2.350	3.450	R90
JP9	1X2	1X2	ZH1X40S	2.450	3.450	R90
JP10	1X2	1X2	ZH1X40S	2.550	3.450	R90
JP11	1X3	1X3	ZH1X40S	3.000	3.005	R0
JP12	1X3	1X3	ZH1X40S	2.550	2.450	R90
JP13	1X2	1X2	ZH1X40S	2.675	0.100	R0
JP14	1X2	1X2	ZH1X40S	2.675	0.200	R0
JP15	1X2	1X2	ZH1X40S	2.675	0.300	R0
JP16	1X2	1X2	ZH1X40S	2.675	0.400	R0
SW1	DIPSW	DIL16	ZDMSW8PDIP	2.380	0.750	R0
SW5	1101M2SXA	1101M2SXA	ZSWPW	0.800	0.250	R0

Parts not populated						
Part	Value	Package	IAI Part No.	X (Inch)	Y (Inch)	Orientation
U2	IDT71T016SA12PH	TSOP244		2.805	1.500	MR90
CN7	SMA	SMA JACK		3.000	3.700	R0