

ZCU102 Version 1.1															
0432055															
Rev 04															
Item#	Qty	Ref Des	Device	Package	Value	Voltage	Tolerance	Dielectric	Power	Manf	Manf P/N	Dist	Dist P/N	Alternate P/N	Barcode
1	1	B1	Battery Slot		TS518FE-FL35E					SEIKO	TS518FE-FL35E	SEIKO	TS518FE-FL35E		740019
		C1,C2,C3,C17,C19,C10,C17,C10,C19,C20,C21,C22,C23,C24,C25,C26,C27,C28,C29,C30,C31,C32,C33,C34,C35,C36,C37,C38,C39,C40,C41,C42,C43,C44,C45,C46,C47,C48,C49,C50,C51,C52,C53,C54,C55,C56,C57,C58,C59,C60,C61,C62,C63,C64,C65,C66,C67,C68,C69,C70,C71,C72,C74,C77,C78,C79,C83,C86,C87,C88,C89,C91,C92,C93,C94,C95,C96,C97,C98,C99,C100,C101,C102,C103,C104,C105,C106,C107,C108,C109,C110,C111,C112,C113,C114,C115,C116,C117,C118,C119,C120,C121,C122,C123,C124,C125,C126,C127,C131,C132,C133,C139,C140,C146,C147,C148,C149,C150,C152,C153,C154,C164,C165,C167,C168,C173,C174,C175,C176,C177,C178,C181,C183,C185,C186,C187,C188,C216,C217,C218,C219,C220,C221,C222,C223,C224,C225,C226,C227,C228,C237,C268,C269,C270,C296,C297,C298,C300,C301,C302,C309,C310,C368,C369,C515,C516,C517,C518,C519,C520,C557,C558,C559,C560,C561,C562,C563,C564,C565,C574,C575,C576,C577,C578,C581,C588,C589,C591,C594,C600,C633,C648,C649,C650,C660,C661,C665,C678,C679,C680,C743,C744,C746,C749,C750,C751,C754,C759,C760,C761,C762,C763,C764,C765,C766,C767,C768,C769,C771,C772,C781,C782,C785,C787,C788,C790,C791,C792,C793,C794,C795,C797,C798,C802,C806,C820,C923,C971,C973,C974,C979,C980,C987,C988,C989,C990,C991,C992,C998,C999,C1018,C1020,C1021,C1022,C1034,C1035,C1036	Capacitor	0402	0.1UF	25V	10%	X5R		Taiyo	TMK105BJ104KV-F	Digikey	587-1456-2-ND		100040
2	257	C4,C5,C6,C7,C10,C11,C12,C13,C109,C170,C171,C172,C189,C190,C191,C192,C193,C194,C195,C196,C206,C207,C214,C215,C238,C239,C244,C256,C377,C385,C386,C567,C568,C569,C573,C580,C582,C585,C595,C596,C599,C601,C931,C1003,C1025	Capacitor	0402	0.01UF	25V	10%	X5R		AVX	04023D103KAT2A	Digikey	478-5267-2-ND		100001
3	45	C75,C229,C230,C231,C232,C233,C234,C235,C236,C246,C247,C248,C249,C250,C251,C252,C254,C255,C258,C267,C272,C311,C494,C495,C496,C497,C1037,C1038,C1039,C1040,C1041,C1042,C1043,C1044	Capacitor	1206	22UF	25V	10%	X5R		Murata	GRM31CR61E226KE15L	Digikey	490-5527-1-ND		100026
4	34	C75,C274,C275,C276,C277,C278,C279,C280,C281,C282,C283,C295,C299,C304,C305,C306,C307,C308,C312,C313,C314,C315,C318,C319,C320,C321,C323,C324,C325,C326,C327,C328,C329,C330,C331,C342	Capacitor	1210	100UF	6.3V	20%	X6S		TDK	C3225X6S0J107M250AC	Digikey	445-6016-2-ND		100141
5	36	C76,C130,C134,C135,C136,C137,C138,C259,C260,C261,C364,C365,C370,C371,C374,C375,C380,C1001	Capacitor	0603	10UF	6.3V	20%	X6S		TDK	C1608X6S0J106M080AC	Mouser	810-C1608X6S0J106M		100137
6	18	C80,C273,C363,C366,C367,C389,C390,C391,C392,C393,C395,C396,C397,C398,C401,C406,C411,C414	Capacitor	0805	2.2UF	25V	10%	X7R		TAIYO YUDEN	TMK212B7225KG-TR	Digikey	587-2991-2-ND		100124
7	18	C81	Capacitor	1206	DNP	6.3V	20%	X5R		TAIYO YUDEN	JMK316BJ107ML-T	DNP	DNP		NA
8	0	C82,C141,C142,C143,C144,C145,C151,C240,C241,C243,C262,C263,C498,C499,C500,C501,C502,C503,C504,C505,C506,C507,C508,C509,C510,C511,C512,C513,C514,C521,C522,C523,C524,C525,C527,C528,C529,C530,C531,C533,C546,C547,C548,C549,C550,C551,C552,C553,C554,C555,C556,C566,C579,C668,C669,C1002	Capacitor	0603	1UF	25V	10%	X5R		Murata	GRM188R61E105KA12D	Digikey	490-3897-2-ND		100023
9	56	C84	Capacitor	0402	DNP	DNP	DNP	DNP	DNP	DNP	DNP	DNP	DNP		NA
10	0	C85,C90,C120,C123,C602,C603,C604,C605,C606,C607,C608,C609,C610,C611,C612,C613,C614,C615,C616,C617,C618,C619,C620,C621,C622,C623,C624,C625,C626,C627,C628,C629,C630,C631,C632,C636,C637,C638,C639,C640,C641,C642,C643,C644,C645,C646,C647,C946,C947	Capacitor	0402	4.7UF	6.3V	20%	X5R		TDK	C1005X5R0J475M	Mouser	810-C1005X5R0J475M		100067
11	49	C155,C378,C651,C653,C654,C655,C657,C658,C659,C662,C667,C672,C673,C674,C675,C676,C873,C874,C1048	Capacitor	0402	1UF	16V	10%	X5R		TDK	C1005X5R1C105K	Digikey	445-4978-2-ND		100007
12	19	C156,C166,C198,C200,C202,C204,C253,C682,C683,C684,C685,C887,C932,C1007,C1026,C1027	Capacitor	0402	DNP	DNP	DNP	DNP				DNP	DNP		NA
13	0	C157,C158,C159,C160,C161,C162,C163,C182,C184,C197	Capacitor	0201	0.1UF	25V	10%	X5R		TDK	C0603X5R1E104K030BB	Digikey	445-13671-1-ND	CL03A104KA3NNNC	100161
14	10	C199,C257,C384,C387,C388,C570,C571,C670,C727,C728,C729,C730,C731,C732,C733,C734,C735,C736,C737,C738,C740,C741,C742,C745,C748,C753,C1009,C1028,C1031,C1032	Capacitor	0805	10UF	10V	10%	X5R		Murata	GRM219R61A106KE44D	Digikey	490-4735-2-ND	GRM21BR61A106KE19L	100024
15	30	C201,C265,C294,C303,C356,C357,C358,C359,C372,C373,C394,C399,C770,C773,C774,C775,C776,C854,C972,C975	Capacitor	0402	1000PF	50V	10%	X7R		MURATA	GRM155R71H102JA01D	Digikey	490-6348-2-ND	GRM155R71H102KA01D	100013
16	20		Capacitor	0402											

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17	19	C203,C412,C413,C824,C825,C826,C827,C828,C829,C830,C832,C833,C834,C837,C846,C851,C853,C1029,C1030	Capacitor	0402	100PF	50V	10%	X7R		YAGEO	CC0402KRX7R9BB101	Digikey	311-1419-2-ND		100119
18	17	C205,C453,C454,C693,C694,C695,C879,C881,C882,C884,C885,C886,C889,C892,C897,C899,C1050	Capacitor	0603	4.7UF	10V	10%	X5R		Taiyo	LMK107BJ475KA-T	Digikey	587-1441-2-ND	C1608X5R1A475K	100031
19	3	C264,C266,C271	Capacitor	0402	0.01UF	25V	10%	X7R		Kemet	C0402C103K3RACTU	Digikey	399-1278-2-ND		100003
20	0	C284,C285,C286,C287,C288,C289,C290,C291,C292,C293	Capacitor	1210	DNP	DNP	DNP	DNP		DNP	DNP	DNP	DNP		NA
21	3	C316,C317,C322	Capacitor	1210	100UF	6.3V	20%	X5R		Murata	GRM32ER60J107ME20L	Digikey	490-3390-1-ND		100027
22	16	C343,C344,C345,C346,C347,C348,C349,C350,C351,C352,C353,C354,C355,C360,C361,C362	Capacitor	1206	47UF	25V	20%	X5R		TDK	C3216X5R1E476M	Digikey	445-8047-1-ND		100087
23	0	C376,C583,C586,C590,C593,C598	Capacitor	0402	DNP	DNP	DNP	DNP	DNP	DNP	DNP	DNP	DNP		NA
24	5	C379,C719,C720,C721,C722	Capacitor	0402	0.22UF	16V	10%	X5R		TDK	C1005X5R1C224K	Digikey	445-4972-2-ND		100008
25	3	C381,C382,C383	Capacitor	1210	10UF	25V	10%	X5R		MURATA	GRM32DR61E106KA12L	Digikey	490-1878-2-ND		100123
26	28	C400,C402,C403,C405,C920,C921,C924,C925,C926,C927,C928,C929,C930,C936,C937,C938,C939,C945,C950,C952,C953,C954,C955,C956,C1051,C1052,C1053,C1054	Capacitor	0402	0.1UF	50V	10%	X7R		TAIYO YUDEN	UMK105B7104KV-FR	Digikey	587-3498-2-ND		100170
27	5	C404,C407,C783,C784,C786	Capacitor	0402	2200PF	50V	10%	X7R		Panasonic	ECJ-0EB1H222K	Digikey	PCC1725TR-ND	GRM155R71H222KA01D	100095
28	1	C408	Capacitor	0402	2700PF	50V	10%	X7R		MURATA	GRM155R71H272KA01J	Digikey	490-6361-1-ND		100149
29	8	C409,C804,C807,C808,C811,C814,C819,C821	Capacitor	0402	0.15UF	16V	10%	X7R		TDK	C1005X7R1C154K	Digikey	445-5934-1-ND		100056
30	4	C410,C417,C962,C963	Capacitor	0402	18PF	50V	5%	NPO		Murata	GRM1555C1H180JZ01D	Digikey	490-1281-2-ND	GRM1555C1H180JA01D	100065
31	1	C415	Capacitor	0402	0.047UF	10V	10%	X5R		TDK	C1005X5R1A473K	Digikey	445-4980-1-ND		100057
32	6	C416,C419,C420,C421,C1046,C1047	Capacitor	0402	0.022UF	10V	10%	X5R		Kemet	C0402C223K8PACTU	Digikey	399-3015-2-ND		100004
33	62	C422,C423,C424,C425,C426,C427,C428,C429,C430,C431,C432,C433,C434,C435,C436,C437,C438,C439,C440,C441,C442,C443,C444,C445,C446,C447,C448,C449,C450,C451,C452,C455,C456,C457,C458,C459,C460,C461,C462,C463,C464,C465,C466,C467,C473,C474,C475,C476,C477,C478,C479,C480,C481,C933,C934,C935,C940,C941,C942,C943,C944,C959	Capacitor	1206	100UF	4V	20%	X6S		TDK	C3216X6S0G107M160AC	Digikey	445-6012-2-ND		100140
34	16	C492,C493,C902,C903,C904,C905,C906,C907,C908,C909,C910,C911,C912,C917,C951,C1049	Capacitor	0402	0.47UF	10V	10%	X5R		Murata	GRM155R61A474KE15D	Digikey	490-3264-1-ND		100022
35	0	C526,C532	Capacitor	0402	DNP	DNP	DNP	DNP		DNP	DNP	DNP	DNP		NA
36	0	C587	Capacitor	0402	DNP	DNP	DNP	DNP		DNP	DNP	DNP	DNP		NA
37	1	C677	Capacitor	1210	47UF	6.3V	20%	X6S		TDK	C3225X6S0J476M250AC	Digikey	445-6015-2-ND		100142
38	8	C696,C697,C698,C699,C700,C701,C702,C703,C705,C706,C707,C708,C709,C710,C711,C712,C713,C714,C715,C716,C726,C948,C949	Capacitor	0402	0.22UF	6.3V	10%	X6S		MURATA	GRM155C80J224KE01D	Digikey	490-6282-2-ND		100146
40	4	C755,C756,C757,C758	Capacitor	0402	0.068UF	16V	10%	X7R		TDK	C1005X7R1C683K050BC	Digikey	445-4950-2-ND		100125
41	0	C779,C780	Capacitor	1210	DNP	DNP	DNP	DNP		DNP	DNP	DNP	DNP		NA
42	1	C847	Capacitor	0402	2.2UF	6.3V	20%	X5R		TDK	C1005X5R0J225M	Digikey	445-4999-1-ND		100062
43	4	C855,C860,C865,C866	Capacitor	0603	22UF	6.3V	20%	X5R		TDK	C1608X5R0J226M080AC	Digikey	445-8028-2-ND		100129
44	2	C856,C857	Capacitor	0402	8200PF	50V	10%	X7R		KEMET	C0402C822K5RACTU	Digikey	399-3075-2-ND		100159
45	4	C861,C862,C875,C876	Capacitor	0402	22PF	50V	5%	COG, NPO		MURATA	GRM1535C1H220JDD5D	Digikey	490-6158-2-ND		100099
46	4	C867,C868,C869,C870	Capacitor	0805	100PF	500V	5%	NPO		Kemet	C0805C101JCGACTU	Digikey	399-5102-2-ND		100047
47	0	C880	Capacitor	0603	DNP	DNP	DNP	DNP		DNP	DNP	DNP	DNP		NA
48	0	C895	Capacitor	CAP_SX	DNP	DNP	20%	SP		DNP	DNP	DNP	DNP		NA
49	1	C914	Capacitor	1210	47UF	10V	10%	X5R		Murata	GRM32ER61A476KE20L	Digikey	490-3887-2-ND		100028
50	1	C916	Capacitor	CAP_SX	120UF	6.3V	20%	SP		PANASONIC	EEF-CX0J121R	Digikey	PCE4817TR-ND		100182
51	1	C918	Capacitor	0402	4700PF	50V	10%	X7R		MURATA	GRM155R71H472KA01D	Digikey	490-1308-2-ND		100155
52	1	C919	Capacitor	C402-25	0.1UF	25V	10%	X5R		TAIYO YUDEN	TMK105BJ104KV-F	Digikey	587-1456-2-ND		100040
53	1	C922	Capacitor	CAPR_800_350	330UF	25V	20%	ELEC		Panasonic	EEU-FM1E331L	Digikey	P12387-ND		100021
54	0	C968,C969,C970	Capacitor	C402-25	DNP	DNP	DNP	DNP		DNP	DNP	DNP	DNP		NA
55	1	C986	Capacitor	C402-25	0.01UF	25V	10%	X5R		AVX	04023D103KAT2A	Digikey	478-5267-2-ND		100001
56	1	C1033	Capacitor	0402	33PF	50V	5%	COG, NPO		MURATA	GRM1535C1H330JDD5D	Mouser	81-GRM1535C1H330JDD5D		100188
57	0	C1045	Capacitor	0402	DNP	DNP	DNP	DNP		DNP	DNP	DNP	DNP		NA
58	0	CBL1	Cable		PC_POWER_CABLE					AdamTech	PC-0102060AC03	Mouser	737-PC-0102060AC03		960004
59	0	CBL2	Cable		USB_MICRO_CABLE					Assmann	AK67421-2-R	Digikey	AE10342-ND		960003
60	3	D1,D2,D3	Diode	SOD_123	MMSZ4686T1G	3.9V			500MW	ON SEMICONDUCTOR	MMSZ4686T1G	Digikey	MMSZ4686T1GOSTR-ND		300076
61	2	D5,D6	Diode	SOD_123	BAT54T1G	30V			400MW	ON SEMICONDUCTOR	BAT54T1G	Digikey	BAT54T1GOSTR-ND		300002
62	11	D7,D8,D9,D10,D11,D12,D13,D14,D15,D16,D17	Diode	SOD_123	MMSZ4680T1G	2.2V			500MW	ON SEMICONDUCTOR	MMSZ4680T1G	Digikey	MMSZ4680T1GOSTR-ND		300075
63	9	D18,D21,D25,D27,D28,D31,D34,D39,D41	Diode	DIO_SMB_403A_03	MBRS240LT3G	40V	NA		2A	ON SEMICONDUCTOR	MBRS240LT3G	DIGIKEY	MBRS240LT3GOSCT-ND		300045
64	4	D19,D20,D23,D24	Diode	SOD_123	MMSZ4683T1G	3.0V			500MW	ON SEMICONDUCTOR	MMSZ4683T1G	Digikey	MMSZ4683T1GOSCT-ND		300105
65	1	D40	Diode	SOT_23	BAS40-04	40V			200MW	MICRO COMMERCIAL	BAS40-04-TP	Digikey	BAS40-04TPMSCT-ND		300001
66	1	D1NMCAGE1	SODIMM_CAGE	SODIMM_CAGE	SODIMM_CAGE					LEADER TECH	20S-CBSFNVS-1.75x3.0x0.35	LEADER TECH	20S-CBSFNVS-1.75x3.0x0.35	20S-CBSFNVS-1.75x3.0x0.35	960011
67	1	DS1	LED		LED-GRN-RED	2.0V			2.0-20MA	Avago	HSMF-C155	Digikey	516-1456-1-ND		300014

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68	44	DS2,DS3,DS4,DS5,DS6,DS7,DS8,DS9,DS10,DS11,DS12,DS13,DS14,DS15,DS16,DS17,DS18,DS19,DS20,DS21,DS22,DS24,DS25,DS26,DS27,DS29,DS30,DS31,DS32,DS33,DS34,DS37,DS38,DS39,DS40,DS41,DS42,DS43,DS44,DS46,DS47,DS49,DS50,DS51	LED		LED-GRN-SMT	2.2V			2.2-20MA	Lumex	SML-LX0603GW-TR	Digikey	67-1549-2-ND		300021
69	2	DS35,DS36	LED		LED-RED-SMT	2.0V			2.0-20MA	Lumex	SML-LX0603IW-TR	Digikey	67-1548-2-ND		300022
70	1	HS1	Fan Sink	RADIAN_FA35+K52 B+T710	12VDC					RADIAN	FA35+K52B+T710	RADIAN	FA35+K52B+T710		960023
71	1	J1	Connector		DDR4_SO-DIMM_SHIELDED					LOTES	ADDR0067-P001A	LOTES	ADDR0067-P001A		400104
72	2	J2,J83	Connector		ZX62D_AB_5P8					Hirose	ZX62D-AB-5P8	Digikey	H11494CT-ND		400014
73	1	J3	Header	2X12	HDR_2X12					Sullins	PBC36DAAN	Digikey	S2011E-36-ND		390014
74	2	J4,J5	Connector		ASP_134486_01					Samtec	ASP_134486_01	Samtec	ASP-134486-01		400032
75	1	J6	Connector	2X10	HDR_BOX_2X10					Assmann	AWHW20G-0202-T-R	Digikey	HRP20H-ND		400067
76	16	J7,J9,J12,J13,J14,J15,J16,J17,J20,J21,J22,J38,J42,J54,J88,J153	Header	1X2	HDR_1X2					Sullins	PBC36SAAN	Digikey	S1011E-36-ND		390011
77	1	J8	Connector		87832-1420					Molex	87832-1420	Digikey	WM18641-ND		400030
78	1	J10	Connector		794285-1					TE	794285-1	Digikey	794285-1-ND		400055
79	0	J11,J18,J19,J23,J24,J25,J26,J27,J28,J29,J30,J31,J32,J33,J34,J35,J36,J37,J39,J40,J41,J43,J44,J45,J46,J47,J48,J49,J50,J51,J53,J94,J95,J163	Test Points		DNP					KEYSTONE	5000	DNP	DNP		900014
80	1	J52	Connector		39-30-1060					Molex	39-30-1060	Digikey	WM1353-ND		400022
81	2	J55,J160	Header	F2X6_PMOD	HDR_2X6_F_RA					SULLINS	PPPC062UJBN-RC	Digikey	S5559-ND		390021
82	2	J56,J164	Header	2X2	HDR_2X2					Sullins	PBC36DAAN	Digikey	S2011E-36-ND		390014
83	0	J57,J58,J59,J60,J61,J62,J63,J64,J65,J66,J67,J68	Header	1X1	DNP					SULLINS	PBC36SAAN	DNP	DNP		390011
84	6	J69,J70,J71,J72,J79,J80	SMA		32K10K-400L5					Rosenberger	32K10K-400L5	Rosenberger	32K10K-400L5		400019
85	1	J84	Connector	2X8	HDR_BOX_2X8					Assmann	AWHW16G-0202-T-R	DIGIKEY	HRP16H-ND		400074
86	8	J85,J90,J108,J109,J110,J112,J113,J159	Header	1X3	HDR_1X3					Sullins	PBC36SAAN	Digikey	S1011E-36-ND		390011
87	1	J87	Header	2X6	HDR_2X6					Sullins	PBC36DAAN	Digikey	S2011E-36-ND		390014
88	1	J92	Connector		103308-2					Tyco	5103308-2	Digikey	A33161-ND		400069
89	1	J93	Connector		70246-1201					MOLEX	70246-1201	Mouser	538-70246-1201		400135
90	1	J96	Connector		KMMX-AB10-SMT1SB30TR					KYCON	KMMX-AB10-SMT1SB30TR	MOUSER	806-KMMXAB10SMT1SB30		400127
91	1	J98	Header	2X4	HDR_2X4					Sullins	PBC36DAAN	Digikey	S2011E-36-ND		390014
92	1	J100	Socket		DM1AA-SF-PEJ_21					HIROSE	DM1AA-SF-PEJ(21)	Mouser	798-DM1AA-SF-PEJ21		420041
93	1	J118	Connector		22_11_2032					Molex	22-11-2032	Digikey	WM2701-ND		400018
94	1	J162	Header	2X3	HDR_2X3					Sullins	PBC36DAAN	Digikey	S2011E-36-ND		390014
95	1	L1	Inductor	IND_WURTH_744373340068						WURTH	7.44373E+11	WURTH	7.44373E+11		300121
96	1	L2	Inductor	IND_WURTH_7050						WURTH	74437349015	WURTH	74437349015		300111
97	1	L3	Inductor	IND_WURTH_744310200						WURTH	744310200	WURTH	744310200		300114
98	8	L4,L7,L8,L22,L23,L31,L37,L42	Inductor	IND_IHLP2020BZ_ER						Vishay	IHLP2020BZER4R7M11	Digikey	541-1222-1-ND		500072
99	2	L5,L9	Inductor	IND_744310115						WURTH	744310115	WURTH	744310115		300060
100	8	L6,L11,L32,L33,L48,L49,L52,L62	Ferrite Chip	0603						TDK	MPZ1608S221A	Digikey	445-1565-2-ND		300010
101	1	L10	Inductor	IND_WURTH_74408941022						Wurth	74408941022	Wurth	74408941022		300138
102	1	L12	Inductor	IND_WURTH_74437324022						WURTH	74437324022	WURTH	74437324022		300120
103	1	L13	Inductor	IND_WURTH_744787039						WURTH	744787039	WURTH	744787039		300116
104	5	L16,L17,L18,L19,L55	Ferrite Chip	0805						Laird	HZ0805E601R-10	Digikey	240-2399-2-ND		300009
105	1	L20	Inductor	IND_WURTH_1210						WURTH	7443320068	Digikey	732-2136-1-ND		300079
106	1	L21	Inductor	IND_WURTH_744373460047						WURTH	7.44373E+11	WURTH	7.44373E+11		300122
107	3	L24,L25,L28	Inductor	IND_LAIRD_28F0121_1SR_10						LAIRD	28F0121-1SR-10	Digikey	240-2436-2-ND		300067
108	3	L29,L30,L58	Filter	BEAD_LAIRD_28C0236						LAIRD	28C0236-0BW-10	Digikey	240-2491-ND		300058
109	2	L35,L36	Ferrite Chip	0603						TDK	MPZ1608S221A	Digikey	445-1565-2-ND		300010
110	2	L38,L39	Inductor	IND_VLS252012ET_3R3M						TDK	VLS252012ET-3R3M	Digikey	445-6639-1-ND		300088
111	1	L43	Inductor	IND_WURTH_744308015						WURTH	744308015	WURTH	744308015		300106
112	1	L44	Inductor	IND_WURTH_744308020						WURTH	744308020	WURTH	744308020		300107
113	4	L47,L50,L60,L65	Inductor	IND_74479887310						WURTH	74479887310A	Digikey	732-4516-1-ND		300059
114	1	L59	Inductor	IND_WURTH_744316047						WURTH	744316047	WURTH	744316047		300115
115	2	L61,L67	Inductor	0402						MURATA	BLM15EG121SN1D	Digikey	490-4004-2-ND		300123
116	1	L66	Inductor	IND_WURTH_1390						WURTH	744309025	Digikey	732-3005-1-ND		300056
117	8	L68,L69,L70,L71,L72,L73,L74,L75	Inductor	0402						Murata	LQW15AN20NJ00D	MOUSER	81-LQW15AN20NJ00D		300124
118	0	MH1,MH2,MH3,MH4,MH5,MH6,MH7,MH8,MH9,MH10	Mounting Hole		DNP					DNP	DNP	DNP	DNP		NA
119	14	MJB1,MJB2,MJB3,MJB4,MJB5,MJB6,MJB7,MJB8,MJB9,MJB10,MJB11,MJB12,MJB13,MJB14	Shunt		JUMPER_BLOCK_2-PIN					AdamTech	MSDA-G	Digikey	S9002-ND		900008

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0432055																
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Item#	Qty	Ref Des	Device	Package	Value	Voltage	Tolerance	Dielectric	Power	Manf	Manf P/N	Dist	Dist P/N	Alternate P/N	Barcode	
120	1	MMD1	DDR4_SODIMM	DDR4_SODIMM	DDR4_SODIMM					KINGSTON	KVR21SE15S8/4	MEMORY4LESS	KVR21SE15S8/4	MTA8ATF51264HZ-2G1B1 MTA8ATF51264HZ-2G6B1	510035	
121	9	MRB1,MRB2,MRB3,MRB4,MRB5,MRB6,MRB7,MRB8,MRB9	Bumper		RUBBER BUMPER					Keystone	720	Digikey	720K-ND		900001	
122	15	MS1,MS2,MS3,MS4,MS5,MS6,MS9,MS11,MS12,MS13,MS14,MS15,MS16,MS17,MS18	Screw		MACHINE_SCREW_4-40					OLANDER	4C25PPMZR	Mcmaster	91770A092		900005	
123	3	MS7,MS8,MS10	Screw		MACHINE_SCREW_4-40					OLANDER	4C18PPMZR	OLANDER	4C18PPMZR		900037	
124	9	MSO1,MSO2,MSO3,MSO4,MSO5,MSO6,MSO7,MSO8,MSO9	Standoff		STANDOFF_OP625					Keystone	1808	Digikey	1808K-ND		900009	
125	9	MW1,MW2,MW3,MW4,MW5,MW6,MW7,MW8,MW9	Washer		WASHER_FLAT_4					KEYSTONE	3348	Digikey	3348K-ND		900039	
126	1	P1	Connector	CON_FCI_10061913_98	10061913-102CLF					FCI	10061913-102CLF	Digikey	609-2884-ND		400152	
127	1	P2	Connector	R-OP-008080-6-F-N-26-F63	R-OP-008080-6-F-N-26-F63					ALLBEST	R-OP-008080-6-F-N-26-F63	ALLBEST	R-OP-008080-6-F-N-26-F63		400134	
128	1	P6	Connector	MICTOR38P_REC	MICTR38P_REC					AMP	2-5767004-2	Digikey	A32308-ND		400026	
129	1	P7	Connector	1888811-1	1888811-1					TE	1888811-1	Verical	1888811-1		400126	
130	1	P9	Connector	CON_MOLEX_678005	67800-5005					Molex	67800-5005	Digikey	WM19104-ND		400073	
131	1	P11	Connector	CON_MOLEX_47272	472720001					Molex	472720001	Digikey	WM19271TR-ND		400070	
132	1	P12	Socket	7499111221A	RJ45					WURTH	7499111221A	Digikey	732-4972-ND		420095	
133	0	PB1	PWR_BRICK_12V		PWR_BRICK_12V					LTE	LTE90E-S2-1	LTE	3800033		960038	
134	4	Q1,Q2,Q3,Q4	Transistor	SOT_23	BSS138	50V			360MW	Fairchild	BSS138	Digikey	BSS138TR-ND		500116	
135	2	Q5,Q27	Transistor	PWVRCLIP_33	FDPC8011S	25V			2.0W	FAIRCHILD	FDPC8011S	Digikey	FDPC8011SF5CT-ND		500277	
136	1	Q7	Transistor	PWR_56	SI7157DP	20V			104W	VISHAY	SI7157DP	Digikey	SI7157DP-T1-GE3CT-ND		500377	
137	10	Q11,Q12,Q13,Q14,Q30,Q33,Q34,Q35,Q43,Q44	Mosfet	SOT_23	NDS331N	20V			460MW	Fairchild	NDS331N	Digikey	NDS331NTR-ND		500100	
138	4	Q15,Q16,Q17,Q18	Mosfet	PWR_56	FDM58558S	25V			78W	FAIRCHILD	FDM58558S	Digikey	FDM58558SDCCT-ND		500283	
139	2	Q19,Q20	Mosfet	PWR_56	FDM58018	30V			83W	FAIRCHILD	FDM58018	Digikey	FDM58018CT-ND		500282	
140	12	Q21,Q22,Q24,Q25,Q26,Q28,Q29,Q32,Q37,Q38,Q39,Q40	Transistor	SOT523	MMBT3904T	40V			150MW	DIODES INC	MMBT3904T-7-F	Digikey	MMBT3904T-FDITR-ND		300068	
141	3	Q41,Q45,Q46	Transistor	SOT_23	2N7002_215	60V			830mW	NXP	2N7002,215	Mouser	771-2N7002,215		500426	
142	1	R1	Resistor	0402	17.8K		1%		1/10W	PANASONIC	ERJ-2RKF1782X	Digikey	P17.8KLTR-ND		200264	
143	46	R2,R11,R12,R21,R40,R41,R42,R43,R44,R45,R46,R47,R48,R49,R50,R51,R52,R53,R54,R55,R58,R59,R60,R61,R62,R67,R68,R70,R71,R73,R74,R75,R76,R77,R78,R85,R86,R87,R88,R91,R106,R120,R121,R127,R135,R867	Resistor	0402	10		1%		1/10W	Panasonic	ERJ-2RKF10R0X	Digikey	P10.0LTR-ND		200028	
144	0	R3,R4,R939	Resistor	0402	DNP		DNP		DNP	DNP	DNP	DNP	DNP		NA	
145	91	9,R20,R22,R24,R26,R27,R28,R29,R31,R32,R37,R38,R39,R94,R95,R96,R97,R98,R99,R100,R101,R102,R103,R104,R107,R149,R150,R168,R173,R174,R175,R177,R178,R180,R181,R188,R189,R191,R194,R195,R200,R213,R219,R226,R229,R232,R243,R246,R247,R251,R253,R254,R255,R272,R273,R274,R275,R276,R296,R298,R302,R308,R334,R352,R363,R364,R505,R506,R547,R548,R575,R580,R677,R678,R679,R764,R802,R833,R834,R905	Resistor	0402	4.70K		1%		1/16W	Panasonic	ERJ-2RKF4701X	Digikey	P4.70KLTR-ND		200067	
146	1	R7	Resistor	0402	82.5		1%		1/10W	PANASONIC	ERJ-2RKF82R5X	Digikey	P82.5LTR-ND		200328	
147	0	02,R210,R211,R222,R227,R230,R235,R290,R291,R293,R294,R297,R299,R300,R301,R303,R304,R305,R310,R312,R313,R314,R315,R316,R317,R318,R319,R320,R331,R371,R372,R373,R375,R376,R377,R379,R380,R381,R383,R384,R388,R389,R395,R410,R411,R417,R425,R426,R507,R508,R509,R511,R516,R517,R588,R589,R590,R605,R606,R612,R613,R614,R694,R695,R774,R806,R807,R808,R855,R886,R924,R925,R929,R930	Resistor	0402	DNP		DNP		DNP	DNP	DNP	DNP	DNP	DNP		NA
148	2	R33,R542	Resistor	0402	59.0K		1%		1/10W	PANASONIC	ERJ-2RKF5902X	Digikey	P59.0KLTR-ND		200268	
149	1	R34	Resistor	0402	1.18K		1%		1/10W	PANASONIC	ERJ-2RKF1181X	Digikey	P1.18KLTR-ND		200374	
150	1	R35	Resistor	0402	953		1%		1/10W	PANASONIC ECG	ERJ-2RKF9530X	Digikey	P953LTR-ND		200172	
151	1	R36	Resistor	RES_WSL3637	0.002		1%		3W	Vishay	WSL36372L000FEA	Mouser	71-WSL36372L000FEA		200240	
152	17	R56,R57,R113,R114,R115,R116,R117,R118,R119,R122,R123,R124,R125,R126,R130,R131,R365	Resistor	1224_SMT	0.005		1%		2W	OHMITE	LVK25R005FER	Digikey	LVK25R005FERTR-ND		200097	
153	1	R63	Resistor	0402	68.1K		1%		1/10W	Panasonic	ERJ-2RKF6812X	Digikey	P68.1KLTR-ND		200239	
154	1	R64	Resistor	0402	44.2K		1%		1/10W	PANASONIC	ERJ-2RKF4422X	Digikey	P44.2KLTR-ND		200266	
155	7	R65,R69,R72,R80,R83,R241,R684	Resistor	0402	8.06K		1%		1/10W	Panasonic	ERJ-2RKF8061X	Digikey	P8.06KLTR-ND		200083	
156	4	R66,R134,R418,R716	Resistor	0402	38.3K		1%		1/10W	PANASONIC	ERJ-2RKF3832X	Digikey	P38.3KLTR-ND		200252	
157	2	R79,R568	Resistor	0402	51.1K		1%		1/10W	Panasonic	ERJ-2RKF5112X	Digikey	P51.1KLCT-ND		200075	
158	1	R81	Resistor	0402	1.87K		1%		1/10W	Panasonic	ERJ-2RKF1871X	Digikey	P1.87KLTR-ND		200137	
159	11	R82,R166,R167,R170,R171,R176,R179,R184,R186,R420,R423	Resistor	0402	12.7K		1%		1/10W	PANASONIC	ERJ-2RKF1272X	Digikey	P12.7KLTR-ND		200261	

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Item#	Qty	Ref Des	Device	Package	Value	Voltage	Tolerance	Dielectric	Power	Manf	Manf P/N	Dist	Dist P/N	Alternate P/N	Barcode	
160	59	R258,R259,R260,R261,R262,R263,R264,R265,R266,R267,R269,R271,R277,R280,R281,R282,R284,R306,R401,R403,R440,R469,R472,R473,R474,R503,R555,R556,R603,R604,R634,R644,R645,R651,R652,R657,R660,R674,R675,R691,R799,R800,R803,R804,R885,R916,R917,R919,R920,R928,R940	Resistor	0402	10.0K		1%		1/10W	Panasonic	ERJ-2RKF1002X	Digikey	P10.0KLTR-ND			200025
161	1	R89	Resistor	0402	1.40K		1%		1/10W	PANASONIC ECG	ERJ-2RKF1401X	Digikey	P1.40KLTR-ND			200175
162	34	R90,R108,R110,R212,R214,R215,R216,R217,R218,R220,R221,R223,R224,R225,R228,R231,R236,R248,R279,R283,R285,R287,R292,R295,R430,R431,R432,R433,R434,R628,R848,R884,R896,R897	Resistor	0402	100		1%		1/10W	Panasonic	ERJ-2RKF1000X	Digikey	P100LTR-ND			200024
163	1	R92	Resistor	0402	432		1%		1/10W	PANASONIC-ECG	ERJ-2RKF4320X	Digikey	P432LTR-ND			200327
164	1	R93	Resistor	0402	576		1%		1/10W	Panasonic	ERJ-2RKF5760X	Digikey	P576LTR-ND			200168
165	2	R105,R649	Resistor	0402	1.50K		1%		1/10W	Panasonic	ERJ-2RKF1501X	Digikey	P1.50KLTR-ND			200161
166	1	R111	Resistor	0603	16.9K		1%		1/10W	Panasonic	ERJ-3EKF1692V	Digikey	P16.9KHTR-ND			200130
167	2	R112,R467	Resistor	0402	1.78K		1%		1/10W	PANASONIC ECG	ERJ-2RKF1781X	Digikey	P1.78KLTR-ND			200177
168	1	R129	Resistor	0402	30.0K		1%		1/10W	PANASONIC-ECG	ERJ-2RKF3002X	Digikey	P30.0KLTR-ND			200320
169	2	R132,R133	Resistor	0402	20.5K		1%		1/10W	Panasonic	ERJ-2RKF2052X	Digikey	P20.5KLTR-ND			200043
170	1	R137	Resistor	0402	31.6K		1%		1/10W	PANASONIC	ERJ-2RKF3162X	Digikey	P31.6KLTR-ND			200265
171	3	R138,R141,R714	Resistor	0402	2.21K		1%		1/10W	Panasonic	ERJ-2RKF2211X	Digikey	P2.21KLTR-ND			200163
172	17	R139,R244,R245,R327,R329,R330,R332,R333,R336,R339,R344,R510,R700,R701,R702,R888,R889	Resistor	0402	100K		1%		1/10W	Panasonic	ERJ-2RKF1003X	Digikey	P100KLTR-ND			200026
173	50	R140,R143,R144,R145,R146,R147,R148,R149,R150,R151,R152,R153,R154,R155,R156,R157,R158,R159,R160,R161,R162,R163,R164,R165,R166,R167,R168,R169,R170,R171,R172,R173,R174,R175,R176,R177,R178,R179,R180,R181,R182,R183,R184,R185,R186,R187,R188,R189,R190,R191,R192,R193,R194,R195,R196,R197,R198,R199,R200,R201,R202,R203,R204,R205,R206,R207,R208,R209,R210,R211,R212,R213,R214,R215,R216,R217,R218,R219,R220,R221,R222,R223,R224,R225,R226,R227,R228,R229,R230,R231,R232,R233,R234,R235,R236,R237,R238,R239,R240,R241,R242,R243,R244,R245,R246,R247,R248,R249,R250,R251,R252,R253,R254,R255,R256,R257,R258,R259,R260,R261,R262,R263,R264,R265,R266,R267,R268,R269,R270,R271,R272,R273,R274,R275,R276,R277,R278,R279,R280,R281,R282,R283,R284,R285,R286,R287,R288,R289,R290,R291,R292,R293,R294,R295,R296,R297,R298,R299,R300,R301,R302,R303,R304,R305,R306,R307,R308,R309,R310,R311,R312,R313,R314,R315,R316,R317,R318,R319,R320,R321,R322,R323,R324,R325,R326,R327,R328,R329,R330,R331,R332,R333,R334,R335,R336,R337,R338,R339,R340,R341,R342,R343,R347,R348,R350,R357,R358,R359,R360,R396,R397,R398,R399,R400,R402,R404,R405,R406,R407,R408,R409,R412,R413,R414,R415,R416,R421,R422,R427,R428,R435,R437,R438,R439,R442,R521,R522,R523,R526,R567,R607,R608,R609,R610,R626,R627,R667,R710,R769,R770,R865,R910,R911,R918	Resistor	0402	0		5%		1/10W	Panasonic	ERJ-2GE0R00X	Digikey	P0.0JTR-ND			200012
174	1	R143	Resistor	0402	4.7M		5%		1/10W	PANASONIC	ERJ-2GEJ475X	Digikey	P4.7MJTR-ND			200358
175	2	R144,R145	Resistor	0402	36		1%		1/10W	PANASONIC	ERJ-2RKF36R0X	Digikey	P36.0LTR-ND			200260
176	63	R146,R151,R322,R324,R325,R335,R337,R340,R341,R342,R343,R347,R348,R350,R357,R358,R359,R360,R396,R397,R398,R399,R400,R402,R404,R405,R406,R407,R408,R409,R412,R413,R414,R415,R416,R421,R422,R427,R428,R435,R437,R438,R439,R442,R521,R522,R523,R526,R567,R607,R608,R609,R610,R626,R627,R667,R710,R769,R770,R865,R910,R911,R918	Resistor	0402	1.00K		1%		1/16W	ROHM	MCR01MZPF1001	Digikey	RHM1.00KLTR-ND			200098
177	2	R147,R148	Resistor	0402	29.4K		1%		1/10W	PANASONIC	ERJ-2RKF2942X	Digikey	P29.4KLTR-ND			200292
178	2	R152,R153	Resistor	0402	2.15K		1%		1/10W	Panasonic	ERJ-2RKF2151X	Digikey	P2.15KLTR-ND			200044
179	5	R154,R155,R157,R161,R163	Resistor	0402	10.2K		1%		1/10W	Panasonic	ERJ-2RKF1022X	Digikey	P10.2KLTR-ND			200160
180	11	R156,R159,R160,R164,R187,R237,R238,R239,R240,R922,R923	Resistor	0402	499		1%		1/10W	Panasonic	ERJ-2RKF4990X	Digikey	P499LTR-ND			200071
181	10	R158,R527,R560,R561,R562,R565,R740,R741,R745,R751	Resistor	0402	140K		1%		1/10W	PANASONIC-ECG	ERJ-2RKF1403X	Digikey	P140KLTR-ND			200262
182	64	R162,R197,R206,R533,R582,R583,R584,R585,R586,R591,R592,R593,R594,R595,R596,R599,R600,R601,R602,R616,R617,R618,R656,R659,R661,R662,R663,R664,R671,R672,R673,R689,R690,R692,R693,R698,R699,R703,R704,R711,R754,R759,R810,R811,R812,R813,R814,R815,R816,R817,R818,R819,R820,R821,R822,R823,R824,R827,R828,R829,R830,R831,R932,R933	Resistor	0402	4.99K		1%		1/10W	Panasonic	ERJ-2RKF4991X	Digikey	P4.99KLTR-ND			200072
183	1	R165	Resistor	0402	21.5K		1%		1/10W	PANASONIC-ECG	ERJ-2RKF2152X	Digikey	P21.5KLTR-ND			200227
184	4	R169,R172,R725,R726	Resistor	0402	9.53K		1%		1/10W	PANASONIC	ERJ-2RKF9531X	Digikey	P9.53KLTR-ND			200270
185	1	R192	Resistor	C402-25	49.9		1%		1/10W	PANASONIC	ERJ-2RKF49R9X	Digikey	P49.9LTR-ND			200073
186	1	R193	Resistor	0402	24.9K		1%		1/10W	PANASONIC	ERJ-2RKF2492X	Digikey	P24.9KLTR-ND			200318
187	1	R196	Resistor	0402	6.19K		1%		1/10W	Panasonic	ERJ-2RKF6191X	Digikey	P6.19KLTR-ND			200112
188	4	R198,R199,R201,R429	Resistor	0603	2.2		1%		1/10W	PANASONIC	ERJ-3RQF2R2V	Digikey	P2.2AJTR-ND			200258
189	3	R207,R208,R687	Resistor	0402	2.49K		1%		1/10W	Panasonic	ERJ-2RKF2491X	Digikey	P2.49KLTR-ND			200049
190	2	R209,R735	Resistor	0402	11.0K		1%		1/10W	PANASONIC	ERJ-2RKF1102X	Digikey	P11.0KLTR-ND			200289
191	3	R233,R234,R242	Resistor	0402	15		1%		1/10W	Panasonic	ERJ-2RKF15R0X	Digikey	P15.0LTR-ND			200037
192	1	R249	Resistor	0402	500		0%		1/20W	VISHAY	PNM0402E5000BST1	Digikey	541-1905-2-ND			200359
193	18	R268,R443,R444,R445,R446,R447,R448,R450,R451,R454,R455,R524,R525,R630,R631,R632,R633,R846	Resistor	0402	2.00K		1%		1/16W	Panasonic	ERJ-S02F2001X	Digikey	ERJ-S02F2001X-ND			200096
194	1	R270	Resistor	0402	9.09K		1%		1/10W	Panasonic	ERJ-2RKF9091X	Digikey	P9.09KLTR-ND			200203
195	1	R286	Resistor	0402	470		1%		1/10W	Panasonic	ERJ-2RKF4700X	Digikey	P470LTR-ND			200066
196	2	R288,R289	Resistor	0402	20.0K		1%		1/16W	SUSUMU	RG1005P-203-D	Digikey	408-1674-2-ND			200295
197	45	R323,R325,R326,R327,R328,R329,R330,R331,R332,R333,R334,R335,R336,R337,R338,R382,R385,R386,R387,R390,R392,R528,R529,R530,R531,R532,R534,R535,R536,R537,R538,R539,R540,R541,R545,R546,R549,R550,R551,R552,R553,R564,R566,R570,R629,R640,R641,R669,R670,R709,R866,R914	Resistor	0402	261		1%		1/10W	Panasonic	ERJ-2RKF2610X	Digikey	P261LTR-ND			200050
198	0	R338,R893,R894	Resistor	0402	DNP		DNP		DNP	DNP	DNP	DNP	DNP			NA
199	4	R345,R346,R349,R351	Resistor	0402	240		1%		1/10W	Panasonic	ERJ-2RKF2400X	Digikey	P240LTR-ND			200046

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Item#	Qty	Ref Des	Device	Package	Value	Voltage	Tolerance	Dielectric	Power	Manf	Manf P/N	Dist	Dist P/N	Alternate P/N	Barcode
200	4	R353,R615,R801,R809	Resistor	0402	200K		1%		1/10W	Panasonic	ERJ-2RKF2003X	Digikey	P200KLTR-ND		200041
201	3	R393,R458,R459	Resistor	0402	332		1%		1/10W	Panasonic	ERJ-2RKF3320X	Digikey	P332LTR-ND		200140
202	1	R394	Resistor	0402	820		1%		1/10W	PANASONIC-ECG	ERJ-2RKF8200X	Digikey	P820LTR-ND		200317
203	1	R419	Resistor	0402	47.5K		1%		1/10W	Panasonic	ERJ-2RKF4752X	Digikey	P47.5KLTR-ND		200237
204	1	R424	Resistor	0402	1.74K		1%		1/10W	PANASONIC-ECG	ERJ-2RKF1741X	Digikey	P1.74KLTR-ND		200238
205	1	R462	Resistor	0402	392		1%		1/10W	PANASONIC	ERJ-2RKF3920X	Digikey	P392LCT-ND		200377
206	1	R464	Resistor	0402	360		1%		1/10W	PANASONIC	ERJ-2RKF3600X	Digikey	P360LCT-ND		200376
207	1	R465	Resistor	0402	549		1%		1/10W	PANASONIC	ERJ-2RKF5490X	Digikey	P549LTR-ND		200378
208	2	R468,R870	Resistor	0402	1.96K		1%		1/10W	Panasonic	ERJ-2RKF1961X	Digikey	P1.96KLTR-ND		200118
209	2	R471,R476	Resistor	0402	1.33K		1%		1/10/2016	PANASONIC	ERJ-2RKF1331X	Digikey	P1.33KLTR-ND		200223
210	25	R477,R478,R479,R480,R481,R482,R483,R484,R485,R486,R487,R488,R489,R490,R491,R492,R493,R494,R495,R496,R497,R498,R499,R500,R501	Resistor	0402	39.2		1%		1/10W	PANASONIC	ERJ-2RKF39R2X	Digikey	P39.2LTR-ND		200329
211	1	R502	Resistor	0402	15K		1%		1/10W	Panasonic	ERJ-2RKF1502X	Digikey	P15.0KLTR-ND		200226
212	1	R504	Resistor	0402	1.69K		1%		1/10W	PANASONIC ECG	ERJ-2RKF1691X	Digikey	P1.69KLTR-ND		200176
213	1	R554	Resistor	0402	6.49K		1%		1/10W	PANASONIC ECG	ERJ-2RKF6491X	Digikey	P6.49KLTR-ND		200185
214	3	R557,R558,R559	Resistor	0402	64.9K		1%		1/10W	PANASONIC	ERJ-2RKF6492X	Digikey	P64.9KLTR-ND		200381
215	1	R569	Resistor	0402	680		1%		1/10W	Panasonic	ERJ-2RKF6800X	DIGIKEY	P680LTR-ND		200234
216	2	R571,R572	Resistor	0402	604		1%		1/10W	PANASONIC	ERJ-2RKF6040X	Digikey	P604LTR-ND		200299
217	2	R576,R577	Resistor	0402	3.01K		1%		1/10W	Panasonic	ERJ-2RKF3011X	Digikey	P3.01KLTR-ND		200055
218	12	R587,R597,R598,R621,R622,R623,R624,R625,R685,R686,R837,R838	Resistor	0402	49.9		1%		1/10W	Panasonic	ERJ-2RKF49R9X	Digikey	P49.9LTR-ND		200073
219	2	R619,R620	Resistor	0402	1.20K		1%		1/10W	PANASONIC	ERJ-2RKF1201X	Digikey	P1.20KLTR-ND		200346
220	2	R635,R636	Resistor	0402	40.2K		1%		1/10W	Panasonic	ERJ-2RKF4022X	Digikey	P40.2KLTR-ND		200216
221	2	R638,R639	Resistor	0402	4.7		5%		1/10W	PANASONIC	ERJ-2GEJ4R7X	Digikey	P4.7JCT-ND		200290
222	4	R642,R643,R648,R755	Resistor	0402	26.1K		1%		1/10W	PANASONIC	ERJ-2RKF2612X	Digikey	P26.1KLTR-ND		200249
223	2	R646,R647	Resistor	0402	1.02K		1%		1/16W	PANASONIC-ECG	ERJ-2RKF1021X	Digikey	P1.02KLTR-ND		200135
224	1	R650	Resistor	0402	3.32K		1%		1/10W	Panasonic	ERJ-2RKF3321X	Digikey	P3.32KLTR-ND		200198
225	4	R658,R728,R731,R743	Resistor	0402	1.0M		5%		1/10W	Panasonic	ERJ-2GEJ105X	Digikey	P1.0MJTR-ND		200013
226	1	R708	Resistor	0603	1.00K		1%		1/10W	PANASONIC	ERJ-3EKF1001V	Digikey	P1.00KHTR-ND		200148
227	2	R718,R727	Resistor	0402	60.4		1%		1/10W	Panasonic	ERJ-2RKF60R4X	Digikey	P60.4LTR-ND		200123
228	1	R719	Resistor	0402	115K		1%		1/10W	Panasonic	ERJ-2RKF1153X	Digikey	P115KLTR-ND		200030
229	0	R747,R748,R749	Resistor	C402-25	DNP		DNP		DNP	DNP	DNP	DNP	DNP		NA
230	1	R752	Resistor	0402	200		1%		1/10W	Panasonic	ERJ-2RKF2000X	Digikey	P200LTR-ND		200039
231	1	R756	Resistor	0402	5.11K		1%		1/10W	PANASONIC	ERJ-2RKF5111X	Digikey	P5.11KLTR-ND		200267
232	16	R847,R931,R934,R935,R936,R937,R938,R941,R942,R943,R944,R945,R946,R947,R948,R949	Resistor	0402	30		1%		1/10W	Panasonic	ERJ-2RKF30R0X	Digikey	P30.0LTR-ND		200133
233	1	R869	Resistor	0402	4.75K		1%		1/10W	Panasonic	ERJ-2RKF4751X	Digikey	P4.75KLTR-ND		200068
234	1	R883	Resistor	0402	40.2		1%		1/10W	Panasonic	ERJ-2RKF40R2X	Digikey	P40.2LTR-ND		200063
235	3	R890,R891,R892	Resistor	0402	1.00K		1%		1/16W	Panasonic	ERA-2AED102X	Digikey	P1.0KDETR-ND		200213
236	2	R906,R907	Resistor	0402	33		1%		1/10W	Panasonic	ERJ-2RKF33R0X	Digikey	P33.0LTR-ND		200129
237	1	R912	Resistor	0402	4.02K		1%		1/10W	Panasonic	ERJ-2RKF4021X	Digikey	P4.02KLTR-ND		200062
238	1	R913	Resistor	0402	18.2K		1%		1/10W	PANASONIC	ERJ-2RKF1822X	Digikey	P18.2KLTR-ND		200385
239	1	R915	Resistor	0402	191		1%		1/16W	VISHAY	CRCW0402191RFKED	Digikey	541-191LTR-ND		200288
240	1	R921	Resistor	0402	20		1%		1/16W	Vishay	CRCW040220R0FKED	Digikey	541-20.0LCT-ND		200119
241	5	RP1,RP2,RP3,RP4,RP5	Resistor Array		10.0K		5%		1/16W	Panasonic	EXB-V8V103JV	Digikey	Y4103TR-ND		200110
242	1	SW1	Switch		1101M253AQE2					C&K	1101M253AQE2	Digikey	CKN5006-ND		440016
243	11	SW2,SW3,SW4,SW5,SW14,SW15,SW16,SW17,SW18,SW19,SW20	Switch		TL3301EF100QG					Eswitch	TL3301EF100QG	Mouser	612-TL3301EF		440011
244	1	SW6	Switch		SDA04H1SBD					C&K	SDA04H1SBD	Digikey	CKN6068-ND		440008
245	1	SW7	Switch		EVQ-11L07K					Panasonic	EVQ-11L07K	Digikey	P80805TB-ND		440006
246	1	SW8	Switch		SDA05H1SBD					CK	SDA05H1SBD	Digikey	CKN6074-ND		440009
247	1	SW9	Switch		1825910-6					TE CONNECTIVITY	1825910-6	Digikey	450-1650-ND		400113
248	1	SW13	Switch		SDA08H1SBD					C&K	SDA08H1SBD	Digikey	CKN6092-ND		440010
249	1	U1	DUT Socket		SOC_DA7_FFVB1156_IRONWOOD					Xilinx	XCZU9EG-2FFVB1156E				
250	1	U2	Memory	MT40A256M16GE-075E	MT40A256M16GE-075E	1.2V				MICRON	MT40A256M16GE-075E:B	MICRON	MT40A256M16GE-075E:B		510027
251	8	U3,U5,U12,U14,U17,U30,U31,U143	IC LDO Regulator	TSSOP_16_EP	MAX8869EUE18+	1.8V				MAXIM	MAX8869EUE18+	Mouser	700-MAX8869EUE18		500370
252	8	U4,U6,U7,U8,U9,U10,U13,U18	IC Controller	TQFN_40_EP	MAX15303	18V				MAXIM	MAX15303AA00+CM	MAXIM	MAX15303AA00-CM		500279
253	1	U11	IC Bus Transceiver	QFN_RSW_10	SN74AVC2T245	1.2V-3.6V				TI	SN74AVC2T245RSWR	TI	SN74AVC2T245RSWR		500012
254	18	U15,U16,U65,U74,U75,U76,U77,U78,U79,U80,U81,U84,U85,U86,U87,U88,U92,U93	IC Regulator	DGS_MSOP_10	INA226	36V				TI	INA226AIDG5	TI	INA226AIDG5		500247
255	1	U20	IC Clock	QFN36_6X6MM	SI5328B	2.5V,3.6V				SILABS	SI5328B-C-GMR	Silicon Labs	SI5328B-C-GMR		500381
256	1	U21	USB Module	DIGILENT_USB_JTAG_2_NC	DIGILENT_USB_JTAG_2_NC	1.8-5V				DIGILENT	JTAG-SMT2-NC	Digilent	410-308P		420073
257	1	U22	IC Supervisor	TQFN_16	MAX16025					Maxim	MAX16025TE+	Digikey	MAX16025TE+-ND		500049
258	1	U23	IC EEPROM	TSSOP8_65P440X300MM	M24C08-WDW6TP	2.5V-5V				ST Micro	M24C08-WDW6TP	Digikey	497-8638-1-ND		500024
259	2	U24,U27	IC Switch	SC70_5	NC7S266PSX	1.65V				Fairchild	NC7S266PSX	Digikey	NC7S266PSXCT-ND		500053
260	1	U25	Filter	MURATA_BNX01	50MOHM					Murata	BNX016-01	Digikey	490-5055-ND		300030
261	1	U26	IC Gate	SOT23_5	SN74AUC1G32	0.8-2.7V				TI	SN74AUC1G32DBVR	Digikey	296-12655-1-ND		500405
262	2	U28,U29	IC Regulator	HPQFN_19_A	VT1697SBFQX	3.3V, 1.8V				MAXIM	VT1697SBFQX	MAXIM	VT1697SBFQX		500339
263	1	U32	IC LDO Regulator	SC70_5	MAX8892EXK+T	1.5V-4.5V				MAXIM	MAX8892EXK+T	MAXIM	MAX8892EXK+T		500302
264	4	U33,U52,U53,U54	IC Translator	SOIC_14	TXS0104E	1.7V-5.5V				TI	TXS0104EDR	TI	TXS0104EDR		500064
265	2	U34,U135	IC I2C Switch	TSSOP_24	TCA9548APWR	1.65-5.5V				TI	TCA9548APWR	TI	TCA9548APWR		500297

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Item#	Qty	Ref Des	Device	Package	Value	Voltage	Tolerance	Dielectric	Power	Manf	Manf P/N	Dist	Dist P/N	Alternate P/N	Barcode
266	2	U35,U36	Voltage Regulator	SON10_TPS51200	TPS51200DRCT	2.5VIN_2.5V-1.1V				TI	TPS51200DRCT	TI	TPS51200DRCT		740011
267	3	U37,U38,U39	IC LDO Regulator	TDFN_10_3X3_EP	MAX15027	1.425V-3.6V				MAXIM	MAX15027ATB+T	MAXIM	MAX15027ATB+T		500290
268	1	U40	IC Bridge	64_VFQFN	CP2108	3.3V				SILICON LABS	CP2108-B02-GM	Digikey	336-3020-ND		500404
269	1	U41	IC Flash	VQFN_48	MSP430F5342	1.8V				TI	MSP430F5342IRGZ	DIGIKEY	296-29582-1-ND		500267
270	1	U42	Oscillator	SI570	10MHZ_TO_810MHZ		50PPM			SILABS	570BAB001614DG	Silicon Labs	570BAB001614DG		600047
271	5	U43,U44,U113,U139,U147	IC Translator	SC70_6	SN74AVC1T45	1.2V-3.6V				TI	SN74AVC1T45DCKR	TI	SN74AVC1T45DCKR		500060
272	4	U45,U55,U134,U136	IC Translator	DCT_R_PDSO_G8	PCA9306DCTR	5.5V				TI	PCA9306DCTR	Digikey	296-18509-1-ND		500219
273	4	U46,U47,U49,U63	IC Regulator	TQFN_32_EP	MAX15301	18V				MAXIM	MAX15301AA02+CJK	MAXIM	MAX15301AA02+CJK		500278
274	4	U48,U66,U67,U68	IC Bus Transceiver	TSSOP_24	SN74AVC8T245	1.2V				TI	SN74AVC8T245PWR	TI	SN74AVC8T245PWR		500014
275	1	U50	IC Buffer	SC70_6	NC7WZ07	5.5V				Fairchild	NC7WZ07P6X	Digikey	NC7WZ07P6XCT-ND		500086
276	1	U51	IC Buffer	QFN16_SI_3X3MM	SI53340-B-GM	1.71-3.63V				SILABS	SI53340-B-GM	Silicon Labs	SI53340-B-GMR		500294
277	1	U56	Oscillator	SI570	10MHZ_TO_810MHZ		50PPM			SILABS	570BAB000544DG	Silicon Labs	SI570BAB000544DG		600019
278	1	U57	IC Switch	6DSBGA	TPS22924C	0.75-3.6V				TI	TPS22924CYZPR	Digikey	296-25510-1-ND		500407
279	2	U58,U114	IC Bus Transceiver	QFN_RSV_16	SN74AVC4T245	1.2V-3.6V				TI	SN74AVC4T245RSVR	TI	SN74AVC4T245RSVR		500013
280	1	U59	IC Buffer	DCU_R_PDSO_G8	SN74LVC3G07	1.65V				TI	SN74LVC3G07DCUR	Digikey	296-13283-1-ND		500286
281	1	U60	IC Multiplexer	VQFN_20	PCA9544ARGYR	2.3-5.5V				TI	PCA9544ARGYR	Digikey	296-20960-1-ND		500203
282	2	U61,U97	IC Expander	TCA6416APWR	TCA6416A	1.65V-5.5V				TI	TCA6416APWR	Mouser	595-TCA6416APWR		500124
283	5	U62,U112,U130,U140,U142	IC Gate	SC70_5	SN74LVC1G08	1.65V-5.5V				TI	SN74LVC1G08DCKR	Digikey	296-11602-2-ND		500077
284	1	U64	Voltage Reference	SOT23_3	REF3012AIDBZT	1.25V				TI	REF3012AIDBZT	TI	REF3012AIDBZT		740010
285	1	U69	Oscillator		350MHZ		OPPM			SILABS	SI5341B-B05071-GM	Silicon Labs	SI5341B-B050		500436
286	2	U70,U110	IC HDMI	TPD12S016RKTR	TPD12S016RKTR	5.5V				TI	TPD12S016RKTR	Digikey	296-39340-1-ND		500455
287	16	U71,U72,U73,U82,U83,U89,U90,U91,U99,U100,U101,U102,U104,U105,U106,U107	IC Diode	TPD1E05U06DPYT	TPD1E05U06DPYT	5.5V				TI	TPD1E05U06DPYT	Digikey	TPD1E05U06DPYT		500432
288	1	U94	IC Retimer	SN65DP159RGZ	SN65DP159RGZ	3.3, 1.1V				TI	SN65DP159RGZ	Digikey	296-42542-1-ND		500437
289	2	U95,U96	IC Regulator	QFN_36_C	MAX20751EKX	3.3V				MAXIM	MAX20751EKX+	MAXIM	MAX20751EKX+		500338
290	1	U98	IC PHY Transceiver	PQFP_64_EP	DP83867IRPAP	1.8V-3.3V				TI	DP83867IRPAP	Verical	DP83867IRPAT		500382
291	1	U103	IC Monitor	SOT23_6	MAX16052	28V				Maxim	MAX16052AUT+T	DIGIKEY	MAX16052AUT+TCT-ND		500266
292	1	U108	IC Attenuator	QFN36_6X6MM	SI5324C-C-GM	1.7V,3.6V				SILABS	SI5324C-C-GM	Avnet	SI5324C-C-GM		500140
293	1	U109	IC EEPROM	TSSOP_8	M24C64-W	2.5V-5V				ST MICRO	M24C64-WDW6TP	Digikey	497-8649-1-ND		500429
294	1	U115	IC ESD Solution	DRT_R_PDSO_N3	TPD2EUSB30DRTR	5.5V				TI	TPD2EUSB30DRTR	Digikey	296-25509-1-ND		500259
295	1	U116	IC USB interface	USB3320_QFN32	USB3320	3.3V				SMSC	USB3320C-EZK-TR	Mouser	886-USB3320C-EZK-TR		500065
296	1	U117	IC Gate	SC70_6	SN74LVC1G11	1.65V-5.5V				TI	SN74LVC1G11DCKR	TI	SN74LVC1G11DCKR		500108
297	2	U119,U120	Memory	SO16_50P300X413	MT25QU512ABB8ESF-0SIT	1.7V-2V				MICRON	MT25QU512ABB8ESF-0SIT	MICRON	MT25QU512ABB8ESF-0SIT	N25Q512A11GSF40G	510018
298	1	U121	IC Power Switch	SOIC_8	MIC2544A-1YM	2.7V TO 5.5V				MICREL	MIC2544A-1YM	Digikey	576-3604-5-ND		500451
299	1	U122	IC/Socket	SOIC_8	SN65HVD232	3.0V-3.6V				TI	SN65HVD232D	Digikey	296-12282-5-ND		500151
300	1	U124	IC Receiver	TSSOP_14	FIN1019	3.3V				FAIRCHILD	FIN1019MTC	Digikey	FIN1019MTCXCT-ND		500414
301	4	U125,U126,U127,U128	IC Multiplexer	TQFN_28_ZH	PI2DBS6212	1.5V-1.8V				PERICOM	PI2DBS6212ZHEX	Mouser	PI2DBS6212ZHE		500430
302	1	U129	IC ESD Solution	SON_15P	TPD8S009DSMR	0-6V				TI	TPD8S009DSMR	Mouser	595-TPD8S009DSMR		500262
303	1	U131	Diode Array	DQA_R_PSON_N10	TPD4E05U06DQAR	6.5V				TI	TPD4E05U06DQAR	Digikey	296-35765-1-ND		500416
304	1	U132	IC ESD Solution	DRL_R_PDSO_N6	TPD4E001DRLR	0.9-5.5V				TI	TPD4E001DRLR	Digikey	296-21887-1-ND		500260
305	1	U133	Shifter	IP4856CX25_SHIFTER_ADAPTER	IP4855CX25_ADAPT	1.2-3.3V				ARIES	A6195-115-18-A	ARIES	A6195-115-18-A		740026
306	1	U141	IC Translator	TSSOP_20	TXS0108E	3.6V,1.6-5.5V				TI	TXS0108EPWR	Digikey	296-23011-1-ND		500123
307	1	U148	IC LDO Regulator	TDFN_8_EP	MAX8902B	1.7V-5.5V				MAXIM	MAX8902BATA+T	MAXIM	MAX8902BATA+T		500384
308	2	X1,X2	IC ESD Solution	DRY_6_SON	TPD4S012	20V			60MW	TI	TPD4S012DRYR	TI	TPD4S012DRYR		500251
309	1	X4	Crystal	XTAL_ABM8	25.00MHZ		50PPM			Abracon	ABM8-25.000MHZ-B2-T	Abracon	815-ABM8-25-B2-T		600002
310	1	X5	Crystal	XTAL_TXC_9HT10	32.768KHZ		20PPM			TXC	9HT10-32.768KDZF-T	Digikey	887-1504-1-ND		600045
311	2	X6,X9	Crystal	XTAL_CS_023_125X98	114.285MHZ		20PPM			Abracon	ABM8-166-114.285MHZ-T	Digikey	535-10306-1-ND		600001
312	1	X7	Crystal	7M48072002	48.000MHZ		10PPM			TXC	7M48072002	Digikey	887-2480-1-Nd		600048
313	1	X8	Crystal	XTAL_MC306	32.768KHZ		50PPM			EPSON	MC-306 32.7680K-A0:ROHS	Digikey	SER2407CT-ND		600025
314	1	X10	Crystal	XTAL_HCM49	24.000MHZ		30PPM			CITIZEN	HCM49-24.000MAJ-UT	Digikey	300-8566-1-ND		600005
315	0	Z1,Z18,Z19,Z25,Z27,Z28,Z29,Z30,Z31,Z32,Z33,Z34,Z35,Z36,Z37,Z38,Z39,Z40,Z43,Z45,Z46,Z47,Z48,Z49,Z50,Z51,Z52,Z53,Z54,Z55,Z56,Z57,Z58,Z59,Z60,Z61,Z62,Z63,Z64,Z65,Z66,Z67,Z71,Z72,Z73,Z74,Z77,Z79,Z80,Z81,Z82,Z83,Z97,Z99,Z100,Z101,Z102,Z107,Z108,Z109,Z110,Z111,Z112,Z113,Z114,Z115,Z116,Z117,Z118,Z119,Z120,Z121,Z122,Z123,Z124,Z125,Z126	0201_SHORT		DNP					DNP	DNP	DNP	DNP		NA
316	0	Z2,Z3,Z4,Z7,Z15,Z24	0603_SHORT		DNP					DNP	DNP	DNP	DNP		NA