

VCU108 Version 1.0
0431889
Rev U1

Item#	Qty	Ref Des	Device	Package	Value	Voltage	Tolerance	Dielectric	Power	Manf	Manf P/N	Dist	Dist P/N	Alternate P/N
51	0	CBL4	PCIE_ADAPTER_CABLE	H_PCIE_ADAPTER_CABLE	PCIE_ADAPTER_CABLE							NEW	NEW	
52	1	CL1	CFP2_HEATSINK_CLIP	CN121M-104-0001						YAMAICHI	CN121M-104-0001	NEW	NEW	
65	1	HS1	12VDC_FANSINK	30-2384-10	12VDC					COFAN	30-2384-10	NEW	NEW	
82	1	J82	Connector		ATEC-TSW-106-22-F-S-RA					SAMTEC	SAMTEC-TSW-106-22-F-S-RA	NEW	NEW	
89	1	J96	Connector		U95-T1Y1-100A					AMPHENOL	U95-T1Y1-100A	NEW	NEW	
119	0	PB1	PWR_BRICK_12V		PWR_BRICK_12V					LTE	LTE90E-S2-1	NEW	NEW	
251	10	U60,U61,U62,	IC/Socket	FBGA_DDR4_96P	EDY4016AABG-DR-F-I	1.2V				MICRON	EDY4016AABG-DR-F-D	NEW	NEW	
10	31	C299,C300,C3	Capacitor	0402	0.01UF	25V	10%	X7R		Kemet	C0402C103K3RACTU	Digikey	399-1278-2-ND	
35	4	C862,C1637,C	Capacitor	0402	0.022UF	10V	10%	X5R		Kemet	C0402C223K8PACTU	Digikey	399-3015-2-ND	
27	9	C534,C873,C8	Capacitor	0402	1UF	16V	10%	X5R		TDK	C1005X5R1C105K	Digikey	445-4978-2-ND	
42	5	C1700,C1701,	Capacitor	0402	0.22UF	16V	10%	X5R		TDK	C1005X5R1C224K	Digikey	445-4972-2-ND	
17	19	C442,C443,C4	Capacitor	0402	1000PF	50V	10%	X7R		Panasonic	ECJ-0EB1H102K	Digikey	PCC1721TR-ND	GRM155R71H102KA01D
24	75	C491,C492,C4	Capacitor	0402	0.47UF	10V	10%	X5R		Murata	GRM155R61A474KE15D	Digikey	490-3264-1-ND	
3	60	C124,C288,C2	Capacitor	0603	1UF	25V	10%	X5R		Murata	GRM188R61E105KA12D	Digikey	490-3897-2-ND	
26	26	C500,C501,C5	Capacitor	0805	10UF	10V	10%	X5R		Murata	GRM219R61A106KE44D	Digikey	490-4735-2-ND	GRM21BR61A106KE19L
36	25	C866,C1348,C	Capacitor	1206	22UF	25V	10%	X5R		Murata	GRM31CR61E226KE15L	Digikey	490-5527-1-ND	
21	1	C470	Capacitor	0603	4.7UF	10V	10%	X5R		Taiyo	LMK107BJ475KA-T	Digikey	587-1441-2-ND	C1608X5R1A475K
2	245	C2,C9,C10,C1	Capacitor	0402	0.1UF	25V	10%	X5R		Taiyo	TMK105BJ104KV-F	Digikey	587-1456-2-ND	
28	2	C536,C876	Capacitor	0805	4.7UF	25V	10%	X5R		Taiyo	TMK212BJ475KG-T	Digikey	587-1782-2-ND	
53	4	CP10,CP11,CP	Capacitor Array	0805_A4	0.1UF	16V	20%	X7R		Murata	GNM214R71C104MA01D	Mouser	81-GNM214R71C104MA1D	
32	1	C794	Capacitor	0603	10UF	4V	20%	X5R		Murata	GRM188R60G106ME47D	Digikey	490-3298-2-ND	
20	4	C466,C467,C1	Capacitor	0805	100PF	500V	5%	NPO		Kemet	C0805C101JCGACTU	Digikey	399-5102-2-ND	
13	10	C369,C729,C1	Capacitor	0402	0.15UF	16V	10%	X7R		TDK	C1005X7R1C154K	Digikey	445-5934-1-ND	
23	2	C489,C490	Capacitor	0402	18PF	50V	5%	NPO		Murata	GRM1555C1H180J201D	Digikey	490-1281-2-ND	GRM1555C1H180JA01D
11	122	C330,C331,C3	Capacitor	0402	4.7UF	6.3V	20%	X5R		TDK	C1005X5R0J475M	Mouser	810-C1005X5R0J475M	
37	8	C867,C868,C1	Capacitor	1206	47UF	25V	20%	X5R		TDK	C3216X5R1E476M	Digikey	445-8047-1-ND	
18	4	C454,C1527,C	Capacitor	0402	2200PF	50V	10%	X7R		Panasonic	ECJ-0EB1H222K	Digikey	PCC1725TR-ND	GRM155R71H222KA01D
44	2	C1720,C1721	Capacitor	0402	22PF	50V	5%	COG, NPO		MURATA	GRM1535C1H220JDD5D	Digikey	490-6158-2-ND	
30	13	C740,C1330,C	Capacitor	0402	100PF	50V	10%	X7R		YAGEO	CC0402KRX7R9BB101	Digikey	311-1419-2-ND	
39	2	C878,C1358	Capacitor	0402	5600PF	50V	10%	X7R		KEMET	C0402C562K5RACTU	Digikey	399-3073-1-ND	
40	2	C879,C1359	Capacitor	0402	560PF	50V	10%	X7R		MURATA	GRM155R71H561KA01D	Digikey	490-1301-2-ND	
7	4	C242,C537,C1	Capacitor	1210	10UF	25V	10%	X5R		MURATA	GRM32DR61E106KA12L	Digikey	490-1878-2-ND	
8	11	C257,C1314,C	Capacitor	0805	2.2UF	25V	10%	X7R		TAIYO YUDEN	TMK212B7225KG-TR	Digikey	587-2991-2-ND	
16	52	C434,C435,C4	Capacitor	0402	0.068UF	16V	10%	X7R		TDK	C1005X7R1C683K050BC	Digikey	445-4950-2-ND	
29	1	C539	Capacitor	0402	3300PF	50V	10%	X7R		MURATA	GRM155R71H332KA01D	Digikey	490-3248-2-ND	
9	5	C258,C1311,C	Capacitor	0402	2.2UF	10V	10%	X6S		TDK	C1005X6S1A225K050BC	Mouser	810-C1005X6S1A225K	
15	13	C423,C1313,C	Capacitor	0603	10UF	6.3V	20%	X6S		TDK	C1608X6S0J106M080AC	Mouser	810-C1608X6S0J106M	
22	5	C480,C1336,C	Capacitor	0603	4.7UF	6.3V	10%	X6S		TDK	C1608X6S0J475K080AB	Digikey	445-7446-2-ND	
4	50	C153,C788,C7	Capacitor	1206	100UF	4V	20%	X6S		TDK	C3216X6S0G107M160AC	Digikey	445-6012-2-ND	
5	16	C156,C159,C1	Capacitor	1210	100UF	6.3V	20%	X6S		TDK	C3225X6S0J107M250AC	Digikey	445-6016-2-ND	
31	6	C792,C795,C7	Capacitor	1210	47UF	6.3V	20%	X6S		TDK	C3225X6S0J476M250AC	Digikey	445-6015-2-ND	
19	5	C460,C461,C4	Capacitor	TANT_D	470UF	2V	20%	SP		PANASONIC	EEF-GX0D471R	Digikey	PCE5028TR-ND	
6	12	C215,C216,C1	Capacitor	1210	22UF	25V	10%	X7R		MURATA	GRM32ER71E226KE15L	Mouser	81-GRM32ER71E226KE5L	
25	1	C499	Capacitor	CAPR_800_350	330UF	16V	20%	ELEC		Nichicon	RL81C331MDN1KX	Digikey	493-6629-3-ND	
14	41	C387,C388,C3	Capacitor	0402	0.22UF	6.3V	10%	X6S		MURATA	GRM155C80J224KE01D	Digikey	490-6282-2-ND	
33	1	C819	Capacitor	0402	2700PF	50V	10%	X7R		MURATA	GRM155R71H272KA01J	Digikey	490-6361-1-ND	
41	2	C889,C890	Capacitor	0402	820PF	50V	10%	X7R		MURATA	GRM155R71H821KA01D	Digikey	490-3250-1-ND	
46	1	C1725	Capacitor	0402	220PF	50V	10%	X7R		TAIYO YUDEN	UMK105B7221KV-F	Digikey	587-1218-2-ND	
45	2	C1722,C1723	Capacitor	0402	8200PF	50V	10%	X7R		KEMET	C0402C822K5RACTU	Digikey	399-3075-2-ND	
43	1	C1719	Capacitor	0402	6800PF	50V	10%	X7R		KEMET	C0402C682K5RACTU	Digikey	399-3074-2-ND	
136	2	R153,R154	Resistor	0201	49.9		1%		1/20W	Vishay	CRCW020149R9FKED	Digikey	541-49.9AABTR-ND	ERJ-1GEF49R9C
176	3	R779,R781,R7	Resistor	0402	5.23K		1%		1/16W	Vishay	CRCW04025K23FKED	Digikey	541-5.23KLTR-ND	
133	23	R98,R398,R39	Resistor	0402	0		5%		1/10W	Panasonic	ERJ-2GE0R00X	Digikey	P0.0JTR-ND	
160	2	R494,R495	Resistor	0402	1.0M		5%		1/10W	Panasonic	ERJ-2GEJ105X	Digikey	P1.0MJTR-ND	
152	1	R236	Resistor	0402	4.7K		5%		1/10W	Panasonic	ERJ-2GEJ472X	Digikey	P4.7KJTR-ND	
135	52	R150,R266,R2	Resistor	0402	100		1%		1/10W	Panasonic	ERJ-2RKf1000X	Digikey	P100LTR-ND	
147	45	R211,R212,R3	Resistor	0402	10.0K		1%		1/10W	Panasonic	ERJ-2RKf1002X	Digikey	P10.0KLTR-ND	
158	6	R388,R389,R9	Resistor	0402	100K		1%		1/10W	Panasonic	ERJ-2RKf1003X	Digikey	P100KLTR-ND	
132	14	R95,R1021,R1	Resistor	0402	10		1%		1/10W	Panasonic	ERJ-2RKf10R0X	Digikey	P10.0LTR-ND	
189	5	R1083,R1084,	Resistor	0402	1.21K		1%		1/10W	Panasonic	ERJ-2RKf1211X	Digikey	P1.21KLTR-ND	
171	2	R712,R1127	Resistor	0402	1.43K		1%		1/10W	Panasonic	ERJ-2RKf1431X	Digikey	P1.43KLTR-ND	
138	7	R158,R573,R5	Resistor	0402	15		1%		1/10W	Panasonic	ERJ-2RKf15R0X	Digikey	P15.0LTR-ND	
165	6	R553,R554,R5	Resistor	0402	200		1%		1/10W	Panasonic	ERJ-2RKf2000X	Digikey	P200LTR-ND	
185	6	R867,R868,R8	Resistor	0402	200K		1%		1/10W	Panasonic	ERJ-2RKf2003X	Digikey	P200KLTR-ND	
164	2	R548,R560	Resistor	0402	20.5K		1%		1/10W	Panasonic	ERJ-2RKf2052X	Digikey	P20.5KLTR-ND	
204	3	R1219,R1220,	Resistor	0402	2.15K		1%		1/10W	Panasonic	ERJ-2RKf2151X	Digikey	P2.15KLTR-ND	
170	9	R667,R767,R7	Resistor	0402	220		1%		1/10W	Panasonic	ERJ-2RKf2200X	Digikey	P220LTR-ND	
157	24	R377,R378,R3	Resistor	0402	240		1%		1/10W	Panasonic	ERJ-2RKf2400X	Digikey	P240LTR-ND	
141	5	R168,R169,R1	Resistor	0402	2.43K		1%		1/10W	Panasonic	ERJ-2RKf2431X	Digikey	P2.43KLTR-ND	
187	2	R1007,R1145	Resistor	0402	249		1%		1/10W	Panasonic	ERJ-2RKf2490X	Digikey	P249LTR-ND	
208	2	R1233,R1234	Resistor	0402	2.49K		1%		1/10W	Panasonic	ERJ-2RKf2491X	Digikey	P2.49KLTR-ND	
146	30	R204,R205,R2	Resistor	0402	261		1%		1/10W	Panasonic	ERJ-2RKf2610X	Digikey	P261LTR-ND	
140	1	R163	Resistor	0402	27.4K		1%		1/10W	Panasonic	ERJ-2RKf2742X	Digikey	P27.4KLTR-ND	
218	5	R1267,R1268,	Resistor	0402	3.01K		1%		1/10W	Panasonic	ERJ-2RKf3011X	Digikey	P3.01KLTR-ND	
149	1	R229	Resistor	0402	3.48K		1%		1/10W	Panasonic	ERJ-2RKf3481X	Digikey	P3.48KLTR-ND	
178	2	R805,R1090	Resistor	0402	4.02K		1%		1/10W	Panasonic	ERJ-2RKf4021X	Digikey	P4.02KLTR-ND	
180	1	R809	Resistor	0402	4.32K		1%		1/10W	Panasonic	ERJ-2RKf4321X	Digikey	P4.32KLTR-ND	
128	56	R6,R19,R21,R	Resistor	0402	4.70K		1%		1/16W	Panasonic	ERJ-2RKf4701X	Digikey	P4.70KLTR-ND	
155	8	R259,R899,R1	Resistor	0402	499		1%		1/10W	Panasonic	ERJ-2RKf4990X	Digikey	P499LTR-ND	
130	39	R58,R59,R72,F	Resistor	0402	4.99K		1%		1/10W	Panasonic	ERJ-2RKf4991X	Digikey	P4.99KLTR-ND	
193	1	R1170	Resistor	0402	51.1K		1%		1/10W	Panasonic	ERJ-2RKf5112X	Digikey	P51.1KLCT-ND	

222	1	R1289	Resistor	0402	8.06K	1%	1/10W	Panasonic	ERJ-2RKF8061X	Digikey	P8.06KLTR-ND
200	3	R1205,R1206,	Resistor	0402	80.6	1%	1/10W	Panasonic	ERJ-2RKF80R6X	Digikey	P80.6LTR-ND
139	1	R162	Resistor	0402	887	1%	1/10W	Panasonic	ERJ-2RKF8870X	Digikey	P887LTR-ND
173	1	R748	Resistor	0603	330	5%	1/10W	Panasonic	ERJ-3GEYJ331V	Digikey	P330GCT-ND
159	16	R421,R460,R4	Resistor	0402	2.00K	1%	1/16W	Panasonic	ERJ-S02F2001X	Digikey	ERJ-S02F2001X-ND
129	58	R40,R41,R45,F	Resistor	0402	1.00K	1%	1/16W	ROHM	MCR01MZPF1001	Digikey	RHM1.00KLTR-ND
143	8	R174,R175,R1	Resistor	0603	47	1%	1/16W	Susumu	RR0816Q-470-D	Digikey	RR08Q47DTR-ND
227	2	RP2,RP3	Resistor Array		10.0K	5%	1/16W	Panasonic	EXB-V8V103JV	Digikey	Y4103TR-ND
192	1	R1135	Resistor	0402	6.19K	1%	1/10W	Panasonic	ERJ-2RKF6191X	Digikey	P6.19KLTR-ND
144	3	R195,R563,R7	Resistor	0402	24.9	1%	1/10W	Panasonic	ERJ-2RKF24R9X	Digikey	P24.9LTR-ND
175	10	R772,R773,R7	Resistor	0402	20K	1%	1/10W	Panasonic	ERJ-2RKF2002X	Digikey	P20.0KLTR-ND
166	20	R556,R557,R5	Resistor	0201	100	5%	1/20W	Panasonic	ERJ-1GEJ101C	Digikey	P100AGTR-ND
226	4	R1320,R1321,	Resistor	0603	0	5%	1/10W	Panasonic	ERJ-3GEY0R00V	Digikey	P0.0GTR-ND
134	23	R117,R118,R1	Resistor	0402	30	1%	1/10W	Panasonic	ERJ-2RKF30R0X	Digikey	P30.0LTR-ND
221	2	R1280,R1281	Resistor	0402	1.02K	1%	1/16W	PANASONIC-ECG	ERJ-2RKF1021X	Digikey	P1.02KLTR-ND
172	2	R723,R780	Resistor	0402	1.87K	1%	1/10W	Panasonic	ERJ-2RKF1871X	Digikey	P1.87KLTR-ND
215	2	R1263,R1264	Resistor	0402	332	1%	1/10W	Panasonic	ERJ-2RKF3320X	Digikey	P332LTR-ND
197	1	R1201	Resistor	0402	365	1%	1/10W	Panasonic	ERJ-2RKF3650X	Digikey	P365LTR-ND
214	2	R1261,R1262	Resistor	0402	402	1%	1/10W	Panasonic	ERJ-2RKF4020X	Digikey	P402LTR-ND
223	1	R1290	Resistor	0402	10.2K	1%	1/10W	Panasonic	ERJ-2RKF1022X	Digikey	P10.2KLTR-ND
168	1	R637	Resistor	0402	1.50K	1%	1/10W	Panasonic	ERJ-2RKF1501X	Digikey	P1.50KLTR-ND
201	2	R1213,R1214	Resistor	0402	576	1%	1/10W	Panasonic	ERJ-2RKF5760X	Digikey	P576LTR-ND
188	2	R1079,R1107	Resistor	0402	953	1%	1/10W	PANASONIC ECG	ERJ-2RKF9530X	Digikey	P953LTR-ND
174	2	R756,R1052	Resistor	0402	1.78K	1%	1/10W	PANASONIC ECG	ERJ-2RKF1781X	Digikey	P1.78KLTR-ND
151	6	R233,R743,R7	Resistor	0402	9.76K	1%	1/10W	PANASONIC ECG	ERJ-2RKF9761X	Digikey	P9.76KLTR-ND
163	1	R544	Resistor	0402	90.9K	1%	1/10W	PANASONIC ECG	ERJ-2RKF9092X	Digikey	P90.9KLTR-ND
169	2	R638,R815	Resistor	0402	3.32K	1%	1/10W	Panasonic	ERJ-2RKF3321X	Digikey	P3.32KLTR-ND
224	1	R1293	Resistor	0402	1.00K	1%	1/16W	Panasonic	ERA-2AED102X	Digikey	P1.0KDETR-ND
216	1	R1265	Resistor	0402	15K	1%	1/10W	Panasonic	ERJ-2RKF1502X	Digikey	P15.0KLTR-ND
191	1	R1126	Resistor	0402	21.5K	1%	1/10W	PANASONIC-ECG	ERJ-2RKF2152X	Digikey	P21.5KLTR-ND
142	1	R173	Resistor	0402	7.15K	1%	1/10W	Panasonic	ERJ-2RKF7151X	Digikey	P7.15KLTR-ND
213	1	R1260	Resistor	0402	680	1%	1/10W	Panasonic	ERJ-2RKF6800X	DIGIKEY	P680LTR-ND
190	1	R1109	Resistor	0402	68.1K	1%	1/10W	Panasonic	ERJ-2RKF6812X	Digikey	P68.1KLTR-ND
162	1	R542	Resistor	0402	487K	1%	1/10W	Panasonic	ERJ-2RKF4873X	Digikey	P487KLTR-ND
183	3	R832,R1078,R	Resistor	0402	26.1K	1%	1/10W	PANASONIC	ERJ-2RKF2612X	Digikey	P26.1KLTR-ND
145	2	R199,R1125	Resistor	0402	38.3K	1%	1/10W	PANASONIC	ERJ-2RKF3832X	Digikey	P38.3KLTR-ND
150	5	R231,R1029,R	Resistor	0603	2.2	1%	1/10W	PANASONIC	ERJ-3RQF2R2V	Digikey	P2.2AJTR-ND
167	6	R565,R566,R8	Resistor	0402	36	1%	1/10W	PANASONIC	ERJ-2RKF36R0X	Digikey	P36.0LTR-ND
148	7	R214,R1028,R	Resistor	0402	12.7K	1%	1/10W	PANASONIC	ERJ-2RKF1272X	Digikey	P12.7KLTR-ND
161	5	R515,R1077,R	Resistor	0402	140K	1%	1/10W	PANASONIC-ECG	ERJ-2RKF1403X	Digikey	P140KLTR-ND
137	1	R155	Resistor	0402	14.7K	1%	1/10W	PANASONIC	ERJ-2RKF1472X	Digikey	P14.7KLTR-ND
194	1	R1174	Resistor	0402	59.0K	1%	1/10W	PANASONIC	ERJ-2RKF5902X	Digikey	P59.0KLTR-ND
182	1	R814	Resistor	0402	2.67K	1%	1/10W	PANASONIC	ERJ-2RKF2671X	Mouser	667-ERJ-2RKF2671X
181	2	R813,R1097	Resistor	0402	3.65K	1%	1/10W	PANASONIC	ERJ-2RKF3651X	Digikey	P3.65KLTR-ND
179	1	R808	Resistor	0402	5.9K	1%	1/10W	PANASONIC-ECG	ERJ-2RKF5901X	Digikey	P5.9KLTR-ND
131	3	R87,R1171,R1	Resistor	RES_WSLP_1206	0.005	1%	1W	VISHAY DALE	WSLP12065L000FEA	Digikey	WSLP-.005TR-ND
186	2	R872,R873	Resistor	0402	300	1%	1/10W	PANASONIC	ERJ-2RKF3000X	Digikey	P300LTR-ND
153	77	R237,R238,R2	Resistor	0201	39.2	1%	1/20W	PANASONIC	ERJ-1GEF39R2C	Digikey	P39.2ABTR-ND
220	5	R1275,R1276,	Resistor	0402	4.7	5%	1/10W	PANASONIC	ERJ-2GEJ4R7X	Digikey	P4.7JCT-ND
202	1	R1215	Resistor	0402	1.8K	1%	1/10W	PANASONIC-ECG	ERJ-2RKF1801X	Digikey	P1.80KLTR-ND
203	3	R1216,R1217,	Resistor	0402	29.4K	1%	1/10W	PANASONIC	ERJ-2RKF2942X	Digikey	P29.4KLTR-ND
205	1	R1228	Resistor	1206	100	1%	1/4W	PANASONIC	ERJ-8ENF1000V	Digikey	P100FTR-ND
210	3	R1238,R1239,	Resistor	0402	20.0K	1%	1/16W	SUSUMU	RG1005P-203-D	Digikey	408-1674-2-ND
198	1	R1202	Resistor	RES_SMR_V	0.001	1%	3W	ISOTEK	SMV-R001-1.0	ISOTEK	SMV-R001-1.0
219	3	R1272,R1273,	Resistor	0402	604	1%	1/10W	PANASONIC	ERJ-2RKF6040X	Digikey	P604LTR-ND
196	2	R1199,R1200	Resistor	0402	174	1%	1/10W	PANASONIC	ERJ-2RKF1740X	Digikey	P174LTR-ND
217	1	R1266	Resistor	0402	22.1K	1%	1/10W	PANASONIC-ECG	ERJ-2RKF2212X	Digikey	P22.1KLTR-ND
207	3	R1230,R1231,	Resistor	0402	4.99	1%	1/16W	VISHAY	CRCW04024R99FKED	Digikey	541-4.99LLTR-ND
212	1	R1259	Resistor	0402	820	1%	1/10W	PANASONIC-ECG	ERJ-2RKF8200X	Digikey	P820LTR-ND
206	1	R1229	Resistor	0402	24.9K	1%	1/10W	PANASONIC	ERJ-2RKF2492X	Digikey	P24.9KLTR-ND
154	2	R258,R922	Resistor	0201	402	1%	1/20W	PANASONIC	ERJ-1GEF4020C	Digikey	P402ABTR-ND
184	5	R837,R838,R8	Resistor	0402	68.1	1%	1/10W	Panasonic	ERJ-2RKF68R1X	Digikey	P68.1LTR-ND
199	2	R1203,R1204	Resistor	1206	0.001	1%	1W	STACKPOLE	CSNL1206FT1L00	Digikey	CSNL1206F1L00TR-ND
195	1	R1190	Resistor	0402	432	1%	1/10W	PANASONIC-ECG	ERJ-2RKF4320X	Digikey	P432LTR-ND
209	1	R1236	Resistor	0402	82.5	1%	1/10W	PANASONIC	ERJ-2RKF82R5X	Digikey	P82.5LTR-ND
58	1	D15	Diode	SOT_23	BAS40-04	40V	200MW	MICRO COMMERCIAL	BAS40-04-TP	Digikey	BAS40-04TPMSCT-ND
57	8	D4,D5,D10,D1	Diode	SOD_123	BAT54T1G	30V	400MW	ON SEMICONDUCTOR	BAT54T1G	Digikey	BAT54T1GOSTR-ND
56	1	D3	Diode	SOD_123	DDZ9678	1.8V	500MW	Diodes Inc	DDZ9678-7	Digikey	DDZ9678DICT-ND
55	1	D2	Diode	DIO_DFS1150_7	DFLS1150	820MV		Diodes Inc	DFLS1150-7	Digikey	DFLS1150DICT-ND
54	1	D1	Diode	MINIMELF	DL4148	100V	500MW	MCC	DL4148-TP	Digikey	DL4148-TPMSCT-ND
61	4	DP1,DP2,DP3,	Diode	RCLAMP0524P	RCLAMP0524P	15V		Semtech	RCLAMP0524P.TCT	Digikey	RCLAMP0524PCT-ND
92	4	L13,L60,L61,L6	Ferrite Chip	0805				Laird	HZ0805E601R-10	Digikey	240-2399-2-ND
94	11	L31,L32,L33,L3	Ferrite Chip	0603				TDK	MPZ1608S221A	Digikey	445-1565-2-ND
62	3	DS2,DS3,DS42	LED		LED-GRN-RED	2.0V	2.0-20MA	Avago	HSMF-C155	Digikey	516-1456-1-ND
63	28	DS6,DS7,DS8,I	LED		LED-GRN-SMT	2.2V	2.2-20MA	Lumex	SML-LX0603GW-TR	Digikey	67-1549-2-ND
64	1	DS45	LED		LED-RED-SMT	2.0V	2.0-20MA	Lumex	SML-LX0603IW-TR	Digikey	67-1548-2-ND
97	1	L62	Inductor	0603				Murata	BLM18SG121TN1D	Digikey	490-3996-1-ND
237	1	U16	Filter	MURATA_BNX01	50MOHM			Murata	BNX016-01	Digikey	490-5055-ND
99	2	L66,L74	Inductor	IND_744323068				WURTH	744323068	Digikey	732-3872-1-ND
104	1	L92	Filter	3EAD_LAIRD_28C0236				LAIRD	28C0236-0BW-10	Digikey	240-2491-ND
95	5	L48,L67,L82,L6	Inductor	IND_74479887310				WURTH	74479887310A	Digikey	732-4516-1-ND
93	7	L22,L65,L76,L1	Inductor	_LAIRD_28F0121_1SR_10				LAIRD	28F0121-1SR-10	Digikey	240-2436-2-ND
126	5	Q25,Q40,Q48,	Transistor	SOT523	MMBT3904T	40V	150MW	DIODES INC	MMBT3904T-7-F	Digikey	MMBT3904T-FDITR-ND
91	3	L3,L80,L86	Inductor	IND_WURTH_7040				WURTH	744311100	Digikey	732-4177-2-ND
101	1	L73	Inductor	IND_WURTH_4838				WURTH	74408943033	Digikey	732-3030-2-ND

60	4	D33,D36,D37,	Diode	SOD_123	MMSZ4680T1G	2.2V	500MW	ON SEMICONDUCTOR	MMSZ4680T1G	Digikey	MMSZ4680T1GOSTR-ND
98	1	L63	Inductor	IND_WURTH_2828				WURTH	744025001	Digikey	732-2612-1-ND
96	1	L59	Inductor	IND_WURTH_4020				WURTH	74437324220	Digikey	732-3340-2-ND
102	1	L75	Inductor	IND_7443320068				WURTH	7443320068	Digikey	732-2136-1-ND
100	3	L70,L71,L72	Inductor	1008				WURTH	74479787210B	Digikey	732-4512-1-ND
105	1	L95	Inductor	IND_COIL_CL1108_3				COILTRONICS	CL1108-3-50TR-R	Maxim	CL1108-3-50TR-R
103	2	L88,L89	Inductor	IND_COIL_FP1208_R1				COOPER	FP1208R1-R21-R	Mouser	704-FP1208R1-R21-R
106	3	L96,L97,L98	Inductor	D_VLS252012ET_3R3M				TDK	VLS252012ET-3R3M	Digikey	445-6639-1-ND
59	3	D19,D32,D39	Diode	SOD_123	MMSZ4683T1G	3.0V	500MW	ON SEMICONDUCTOR	MMSZ4683T1G	Digikey	MMSZ4683T1GOSCT-ND
70	1	J5	Header	1X3	HDR_1X3			Sullins	PBC36SAAN	Digikey	S1011E-36-ND
71	5	J12,J14,J80,J8	Header	1X2	HDR_1X2			Sullins	PBC36SAAN	Digikey	S1011E-36-ND
81	1	J78	Header	1X4	HDR_1X4			Sullins	PBC36SAAN	Digikey	S1011E-36-ND
90	1	J105	Header	1X6	HDR_1X6			Sullins	PBC36SAAN	Digikey	S1011E-36-ND
77	1	J53	Header	2X6	HDR_2X6			Sullins	PBC36DAAN	Digikey	S2011E-36-ND
80	1	J74	Header	2X3	HDR_2X3			Sullins	PBC36DAAN	Digikey	S2011E-36-ND
76	1	J52	Header	F2X6_PMOD	HDR_2X6_F_RA			SULLINS	PPPC062LJBN-RC	Digikey	S5559-ND
69	2	J4,J106	Connector		ZX62D-AB-5P8			Hirose	ZX62D-AB-5P8	Digikey	H11494CT-ND
79	1	J73	Connector		22_11_2032			Molex	22-11-2032	Digikey	WM2701-ND
74	2	J34,J35	Connector		32K10K-400L5			Rosenberger	32K10K-400L5	Rosenberger	32K10K-400L5
72	1	J15	Connector		39-30-1060			Molex	39-30-1060	Digikey	WM1353-ND
68	1	J3	Connector		87832-1420			Molex	87832-1420	Digikey	WM18641-ND
67	2	J2,J22	Connector		ASP_134486_01			Samtec	ASP_134486_01	Samtec	ASP-134486-01
86	1	J89	Connector		CFP2			YAMAICHI	CN1215-104-0001	YAMAICHI	CN1215-104-0001
75	1	J39	Connector	2X8	HDR_BOX_2X8			Assmann	AWHW16G-0202-T-R	DIGIKEY	HRP16H-ND
83	1	J83	Connector		I_MOL_10P_5025700893			MOLEX	5025700893	Digikey	WM19093CT-ND
88	1	J95	I/O Cage		CFP2_CAGE_SINGLE			YAMAICHI	CN121C-104-0002	Mouser	945-CN121C-104-0002
87	1	J90	I/O Cage		CFP2_COVER_SINGLE			YAMAICHI	CN121G-104-0002	Mouser	945-CN121G-104-0002
118	1	P6	Connector	IN23_HDMI_MOLEX_	47151-0011			MOLEX	47151-0011	MOUSER	538-47151-0011
273	1	U145	Connector	_AMP_FSI_Z38_20Z6	FS1-Z38-20Z6-10			AMPHENOL	FS1-Z38-20Z6-10	mouser	523-FS1-Z38-20Z6-10
117	1	P3	Socket	_ETH_HFJ111G01E_L	RJ45			HALO	HFJ11-1G01E-L12RL	Future	HFJ11-1G01E-L12RL
262	1	U115	USB Module	iILENT_USB_JTAG_2	iILENT_USB_JTAG_2_	1.8-5V		DIGILENT	JTAG-SMT2-NC	Digilent	410-308P
232	1	U1	DUT Socket		J095_FFVA2104_IRONWOOD			XILINX	XCVU095-2FFVA2104EES9852	XILINX	C14177
230	1	SW12	Switch		SDA04H1SBD			C&K	SDA04H1SBD	Digikey	CKN6068-ND
231	2	SW15,SW16	Switch		SDA05H1SBD			CK	SDA05H1SBD	Digikey	CKN6074-ND
229	8	SW4,SW5,SW	Switch		TL3301EF100QG			Eswitch	TL3301EF100QG	Mouser	612-TL3301EF
228	1	SW1	Switch		1101M2S3AQE2			C&K	1101M2S3AQE2	Digikey	CKN5006-ND
250	1	U58	Ethernet Transceiver	TFBGA_117	M88E1111	2.5V		MARVELL	88E1111-B2-BAB1C000	Avnet	88E1111-XX-BAB1C000
252	1	U71	IC Buffer	SC70_5	NC7SV125	3.6V		Fairchild	NC7SV125P5X	Digikey	NC7SV125P5XCT-ND
235	2	U13,U158	IC Bus Transceiver	QFN_RSW_10	SN74AVC2T245	1.2V-3.6V		TI	SN74AVC2T245RSWR	TI	SN74AVC2T245RSWR
246	7	U47,U48,U49,	IC Bus Transceiver	QFN_RSV_16	SN74AVC4T245	1.2V-3.6V		TI	SN74AVC4T245RSVR	TI	SN74AVC4T245RSVR
238	3	U19,U51,U16i	IC Bus Transceiver	TSSOP_24	SN74AVC8T245	1.2V		TI	SN74AVC8T245PWR	TI	SN74AVC8T245PWR
234	1	U12	IC EEPROM	iSOP8_65P440X300M	M24C08-WDVW6TP	2.5V-5V		ST Micro	M24C08-WDVW6TP	Digikey	497-8638-1-ND
253	6	U74,U116,U1:	IC Op-Amp	MSOP_8	INA333			TI	INA333AIDGKR	TI	INA333AIDGKR
268	1	U130	IC Switch	SOT143	MAX6816	2.7-5.5V		Maxim	MAX6816EUS+T	Digikey	MAX6816EUS+TCT-ND
241	2	U26,U132	IC Switch	SC70_5	NC7SZ66P5X	1.65V		Fairchild	NC7SZ66P5X	Digikey	NC7SZ66P5XCT-ND
248	5	U53,U84,U90,	IC Translator	SC70_6	SN74AVC1T45	1.2V-3.6V		TI	SN74AVC1T45DCKR	TI	SN74AVC1T45DCKR
240	1	U25	IC Gate	SC70_5	SN74LVC1G08	1.65V-5.5V		TI	SN74LVC1G08DCKR	Digikey	296-11602-2-ND
267	1	U129	IC Buffer	SC70_5	SN74AUC1G07DCKR	0.8V-2.7V		TI	SN74AUC1G07DCKR	TI	SN74AUC1G07DCKR
124	11	Q17,Q34,Q35,	Mosfet	SOT_23	NDS331N	20V	460MW	Fairchild	NDS331N	Digikey	NDS331NTR-ND
261	1	U114	IC Flash Memory	SO16_50P300X413	N25Q128A	1.7V-2.0V		Micron	N25Q128A11E5F40	Avnet	N25Q128A11E5F40G
125	1	Q18	Mosfet	SOT_23	SI2300DS	30V		Vishay	SI2300DS-T1-GE3	Digikey	SI2300DS-T1-GE3CT-ND
122	5	Q4,Q5,Q6,Q2:	Transistor	SOT_23	BSS138	50V	360MW	Fairchild	BSS138	Digikey	BSS138TR-ND
247	1	U52	IC Transmitter	LQFP100_14X14	ADV7511	5V		Analog	ADV7511KSTZ-P	ANALOG	ADV7511KSTZ-P
245	7	U41,U42,U43,	IC Translator	TSSOP_20	TXS0108E	2V-3.6V,1.6-5.5V		TI	TXS0108EPWR	Digikey	296-23011-1-ND
258	1	U89	IC Expander	TCA6416APWR	TCA6416A	1.65V-5.5V		TI	TCA6416APWR	Mouser	595-TCA6416APWR
254	1	U75	IC Multiplexer	TSSOP_28	ADG707BRUZ	2.5V		Analog	ADG707BRUZ	Digikey	ADG707BRUZ-ND
274	1	U154	IC Translator	TQFN_16	MAX13035E	i2V-3.2V,2.2-3.6V		Maxim	MAX13035EETE+	Mouser	700-MAX13035EETE
256	1	U80	IC Multiplexer	VQFN_20	PCA9544ARGYR	2.3-5.5V		TI	PCA9544ARGYR	Digikey	296-20960-1-ND
255	5	U77,U78,U86,	IC Translator	DCT_R_PDSO_G8	PCA9306DCTR	2-3.3V, 1.8-5.5V		TI	PCA9306DCTR	Digikey	296-18509-1-ND
279	2	X1,X7	IC ESD Solution	DRY_6_SON	TPD45012	20V	60MW	TI	TPD45012DRYR	TI	TPD45012DRYR
272	1	U144	IC Translator	TSSOP_8	NVT2002DP	1V-3.3V,1.8V-5.5V		NXP	NVT2002DP,118	Digikey	568-5121-1-ND
236	1	U15	IC Monitor	SOT23_6	MAX16052	28V		Maxim	MAX16052AUT+T	DIGIKEY	MAX16052AUT+TCT-ND
244	1	U34	IC Bridge	QFN_24	CP2105	3.3V		SILICON LABS	CP2105-F01-GM	Digikey	336-2009-5-ND
123	4	Q9,Q39,Q42,C	Transistor	PWRCLIP_33	FDPC8011S	25V	2.0W	FAIRCHILD	FDPC8011S	Digikey	FDPC8011SF5CT-ND
233	5	U4,U9,U30,U1	IC Regulator	TQFN_32_EP	MAX15301	18V		MAXIM	MAX15301AA02+CJK	MAXIM	MAX15301AA02+CJK
257	1	U82	IC Switch	TDFN_10	MAX17502	5V		MAXIM	MAX17502FATB+T	Mouser	700-MAX17502FATB+
127	2	Q45,Q47	Mosfet	PWR_56	FDMS8558S	25V	78W	FAIRCHILD	FDMS8558S	Digikey	FDMS8558SDCCT-ND
121	1	Q1	Mosfet	SOIC_8	FDS6681Z	30V	2.5W	FAIRCHILD	FDS6681Z	Digikey	FDS6681ZCT-ND
265	1	U125	IC LDO Regulator	TDFN_10_3X3_EP	MAX15027	1.425V-3.6V		MAXIM	MAX15027ATB+T	MAXIM	MAX15027ATB+T
264	2	U124,U151	IC Regulator	WLP_9	MAX15053	2.7V-5.5V		MAXIM	MAX15053EWL+	MAXIM	MAX15053EWL+
266	1	U128	IC Sequencer	TQFN_28_EP	MAX16050	2.7V-13.2V		MAXIM	MAX16050ETI+	MAXIM	MAX16050ETI+
259	2	U104,U157	IC Buffer	QFN16_SI_3X3MM	SI53340-B-GM	1.71-3.63V		SILABS	SI53340-B-GMR	SILABS	SI53340-B-GMR
263	1	U122	IC Clock	QFN24_4X4MM	SI5335A-B02436-GM	1.5V-3.3V		SILABS	SI5335A-B02436-GM	SILABS	SI5335A-B02436-GM
242	1	U28	IC I2C Switch	TSSOP_24	TCA9548APWR	1.65-5.5V		TI	TCA9548APWR	TI	TCA9548APWR
260	1	U111	FPGA	CL225	XC7Z010CLG225			XILINX	XC7Z010-1CLG225C	XILINX	XC7Z010-1CLG225C
269	1	U131	IC LDO Regulator	SC70_5	MAX8892EXK+T	1.5V-4.5V		MAXIM	MAX8892EXK+T	MAXIM	MAX8892EXK+T
271	2	U141,U142	Memory	iGA168_13_5X13_5MMT44K16M36RB_093		1.35V		MICRON	MT44K16M36RB_093E	MICRON	MT44K16M36RB-093E:A
277	3	U164,U165,U:	IC Regulator	QFN_36_C	MAX20751EKX	3.3V		MAXIM	MAX20751EKX+	MAXIM	MAX20751EKX+
276	5	U159,U160,U:	IC Regulator	HPQFN_19_A	VT1697SBFQX	3.3V, 1.8V		MAXIM	VT1697SBFQX	MAXIM	VT1697SBFQX
270	1	U133	Memory	28GU01GAAA1EGC-C28GU01GAAA1EGC-0		1.8V		MICRON	MT28GU01GAAA1EGC-0SIT	MICRON	MT28GU01GAAA1EGC-0SIT
278	1	U167	IC LDO Regulator	TSSOP_16_EP	MAX8869EUE18+	1.8V		MAXIM	MAX8869EUE18+	Mouser	700-MAX8869EUE18
249	1	U57	IC Clock	QFN36_6X6MM	SI5328B	2.5V,3.6V		SILABS	SI5328B-C-GMR	SILABS	SI5328B-C-GMR
281	1	X5	Crystal	XTAL_CS_023_125X9i	114.285MHZ			Abracon	ABM8-166-114.285MHZ-T	Digikey	535-10306-1-ND
280	1	X4	Crystal	XTAL_ABM8	25.00MHZ			Abracon	ABM8-25.000MHZ-B2-T	Abracon	815-ABM8-25-B2-T
243	1	U32	Oscillator	SI570	10MHZ_TO_810MHZ			SILABS	570BAB000544DG	Silicon Labs	SI570BAB000544DG

282	1	X6	Crystal	XTAL_EPSON_FA238	25MHZ	50PPM				EPSON	FA-238_25.0000MB-C3	Digikey	SER3691TR-ND
114	1	MSTK1	PCIE_POWER_STICKER	PCIE_POWER_STICKER	PCIE_POWER_STICKER					XILINX	250446	XILINX	250446
275	1	U155	Voltage Reference	SOT23_3	REF3012AIDBZT	1.25V				TI	REF3012AIDBZT	TI	REF3012AIDBZT
239	3	U24,U134,U14	Voltage Regulator	SON10_TPS51200	TPS51200DRCT	5VIN_2.5V-1.1V				TI	TPS51200DRCT	TI	TPS51200DRCT
1	1	B1	Battery Slot		TS518FE-FL35E					SEIKO	TS518FE-FL35E	SEIKO	TS518FE-FL35E
110	6	MRB1,MRB2,P	Bumper		RUBBER BUMPER					Keystone	720	Digikey	720K-ND
111	13	MS1,MS2,MS3	Screw		MACHINE_SCREW_4-40					OLANDER	4C25PPMZR	Digikey	H342-ND
108	14	MJB1,MJB2,M	Shunt		JUMPER_BLOCK_2-PIN					AdamTech	MSDA-G	Digikey	S9002-ND
112	3	MSO1,MSO2,P	Standoff		STANDOFF_0P625					Keystone	1808	Digikey	1808K-ND
78	0	J54,J58,J63,J6	Test Points		DNP					KEYSTONE	5000	DNP	DNP
73	6	J23,J24,J25,J2	Test Points		BLACK					Keystone	5001	Digikey	5001K-ND
84	2	J84,J85	Test Points		YELLOW					Keystone	5004	Digikey	5004K-ND
109	2	MN1,MN2	Broaching Nuts		BROACHING_NUT_4-40					Penn	KF2-440-ET	DB Roberts	PEMKF2-440-ET
120	1	PL1	Mechanical							CBT	P111-XLNX-003	CBT	P111-XLNX-003
113	3	MSO3,MSO4,P	Standoff		STANDOFF_0P500					KEYSTONE	2203	Digikey	2203K-ND
115	6	MW1,MW2,M	Washer		WASHER_FLAT_4					KEYSTONE	3348	Digikey	3348K-ND
49	0	CBL2	Cable		USB_MINIB_CABLE					Qualtek	3021009-06	Mouser	562-3021009-06
50	0	CBL3	Cable		USB_MICRO_CABLE					Assmann	AK67421-2-R	Digikey	AE10342-ND
48	0	CBL1	Cable		PC_POWER_CABLE					AdamTech	PC-0102060AC03	Mouser	737-PC-0102060AC03
116	1	P1	PCIE_4LANE_EDGE	PCIE_8LANE_EDGE	PCIE_8LANE_EDGE					N/A	N/A		
66	1	HS2	Heatsink	CN121F-104-0001						YAMAICHI	CN121F-104-0001	YAMAICHI	CN121F-104-0001
12	0	C357,C358,C1	Capacitor	0402	DNP	DNP	DNP	DNP				DNP	DNP
34	0	C856,C857,C8	Capacitor	C402-25	DNP	DNP	DNP	DNP		DNP	DNP	DNP	DNP
38	0	C869,C870	Capacitor	0402	DNP	DNP	DNP	DNP		KEMET	C0402C223K8PACTU	DNP	DNP
47	0	C1778,C1779,I	Capacitor	0603	DNP	DNP	DNP	DNP	DNP	DNP	DNP	DNP	DNP
85	0	J87	Connector		CCC-J-020					SAMTEC	DNP	DNP	DNP
107	0	MH1,MH2,M	Mounting Hole		DNP					DNP	DNP	DNP	DNP
156	0	R339,R342,R3	Resistor	0402	DNP		DNP		DNP	DNP	DNP	DNP	DNP
177	0	R796,R797,R7	Resistor	C402-25	DNP		DNP		DNP	DNP	DNP	DNP	DNP
211	0	R1247,R1251	Resistor	0402	DNP		DNP		DNP	DNP	DNP	DNP	DNP
225	0	R1317,R1318,I	Resistor	0805	DNP		DNP		DNP	DNP	DNP	DNP	DNP
283	0	Z14,Z16,Z43,Z	0201_SHORT		DNP					DNP	DNP	DNP	DNP
284	0	Z15,Z88,Z93,Z	0603_SHORT		DNP					DNP	DNP	DNP	DNP
285	0	Z128,Z129,Z13	0402_SHORT		DNP					DNP	DNP	DNP	DNP