

TI DESIGNS
TIDM-ETHERNET-BOOTLOADER

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
1	28	C1,C2,C3,C4,C5,C6,C7,C8,C9,C10,C11,C12,C13,C14,C15,C16,C17,C19,C21,C22,C23,C24,C25,C26,C102,C103,C104,C105	NO-POP	CAP CERAMIC .1UF 10V X5R 0402	YAGEO (VA)	CC0402KRX5R6BB104		c0402	-
2	93	C18,C20,C30,C31,C32,C33,C35,C36,C37,C38,C39,C40,C42,C43,C44,C46,C48,C49,C50,C51,C52,C53,C54,C55,C56,C59,C60,C61,C62,C63,C64,C65,C67,C69,C70,C76,C77,C78,C79,C80,C81,C82,C84,C86,C88,C89,C90,C91,C92,C93,C94,C95,C96,C97,C98,C99,C100,C101,C108,C109,C110,C112,C113,C115,C116,C118,C120,C122,C123,C124,C125,C128,C129,C130,C131,C132,C133,C136,C137,C138,C139,C140,C142,C143,C145,C149,C153,C162,C164,C173,C174,C175,C177	0.1uF	CAP CER .10UF 16V X5R 0402	TAIYO YUDEN (VA)	EMK105BJ104KV-F		c0402	
3	2	C27,C28	10pF	CAP CERM 10PF 50V COG 0402	TAIYO YUDEN (VA)	UMK105CG100DV-F		c0402	
4	1	C29	22pF	CAP CER 22PF 25V NPO 0603	AVX CORPORATION (VA)	06033A220JAT2A		c0603	
5	5	C34,C45,C58,C68,C119	22uF	CAP TANTALUM 22UF 6.3V 10% SMD	AVX CORPORATION	TAJB226K006RNJ		c1210_pol	
6	3	C41,C47,C66	22uF	CAP CER 22UF 6.3V X5R 0805	TAIYO YUDEN (VA)	JMK212BJ226MG-T		c0805	
7	6	C57,C106,C121,C158,C172,C176	0.01uF	CAP 10000PF 16V CERAMIC 0402 SMD	PANASONIC - ECG (VA)	ECJ-0EB1C103K		c0402	

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8	3	C75,C83,C107	10uF	CAP CER 10UF 6.3V X5R 0603	TAIYO YUDEN (VA)	JMK107BJ106MA-T		c0603	
9	2	C85,C87	100pF	CAP .10UF 16V CERAMIC X7R 0603	YAGEO (VA)	CC0603KRX7R7BB104		c0603	
10	2	C111,C114	4.7nF			VJ0402Y472KXJCW1BC		c0402	
11	2	C126,C127	4.7uF	CAP CER 4.7UF 6.3V X5R 0402	MURATA ELECTRONICS (VA)	GRM155R60J475ME87D		c0402	
12	2	C134,C135	27pF	CAP 27PF 50V CERAMIC 0402 SMD	PANASONIC - ECG (VA)	ECJ-0EC1H270J		c0402	
13	3	C141,C147,C159	1uF	CAP CERAMIC 1UF 10V X5R 0402	PANASONIC - ECG (VA)	ECJ-0EB1A105M		c0402	
14	2	C144,C146	NO-POP					c0402	
15	7	C148,C150,C152,C154,C155,C168,C169	10uF	CAP TANT 10UF 20V 20% SMD	KEMET (VA)	T491A106M020AT		c1206_pol	
16	2	C151,C170	1uF	CAP CERM 1.0UF 6.3V X5R 0603	TAIYO YUDEN (VA)	JMK107BJ105KK-T		c0603	
17	1	C156	2.2uF	CAP CER 2.2UF 6.3V X5R 0402	TAIYO YUDEN (VA)	JMK105BJ225MV-F		c0402	
18	1	C157	22uF,50V	CAPACITOR TANT 22UF 25V 20% SMD	KEMET	T491D226M025AT		c7343_pol	
19	1	C160	10pF	CAP CER 10PF 50V C0G 0603	TDK CORPORATION (VA)	C1608C0G1H100D		c0603	
20	1	C161	4700pF	CAP 4700PF 50V CERAMIC X7R 0603	YAGEO (VA)	CC0603KRX7R9BB472		c0603	
21	2	C163,C166	22uF,25V	CAPACITOR TANT 22UF 25V 20% SMD	KEMET	T491D226M025AT		c7343_pol	
22	1	C165	220uF	CAPACITOR TANT 220UF 10V 10% SMD	KEMET	T491X227K010AT		c7343_pol	
23	1	C167	0.1uF	CAP .10UF 50V CERAMIC X7R 0805	YAGEO (VA)	CC0805KRX7R9BB104		c0805	
24	1	C171	10nF	CAP CER 10000PF 16V X7R 0402	TDK CORPORATION	C1005X7R1C103M		c0402	
25	1	DS1	JTAG_DIS	LED BLUE HIGH BRIGHT USS 0603	Lite-On Inc	LTST-C193TBKT-5A		d0603	
26	1	DS2	1V2	LED BLUE HIGH BRIGHT USS 0603	Lite-On Inc	LTST-C193TBKT-5A		d0603	
27	1	DS3	V5.0	LED BLUE HIGH BRIGHT USS 0603	Lite-On Inc	LTST-C193TBKT-5A		d0603	
28	2	DS4,DS5	3V3	LED BLUE HIGH BRIGHT USS 0603	Lite-On Inc	LTST-C193TBKT-5A		d0603	
29	1	D1	RED	LED RED TSS TYPE SMD	PANASONIC - SSG (VA)	LNJ212R8ARA		d0603	
30	1	D2	BLUE	LED BLUE HIGH BRIGHT USS 0603	Lite-On Inc	LTST-C193TBKT-5A		d0603	
31	1	D3	HET1_17	LED WHITE HIGH BRIGHT USS 0603	Lite-On Inc	LTW-C193TS5		d0603	
32	1	D4	HET1_31	LED WHITE HIGH BRIGHT USS 0603	Lite-On Inc	LTW-C193TS5		d0603	
33	1	D5	HET1_00	LED WHITE HIGH BRIGHT USS 0603	Lite-On Inc	LTW-C193TS5		d0603	

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34	1	D6	HET1_25	LED WHITE HIGH BRIGHT USS 0603	Lite-On Inc	LTW-C193TS5		d0603	
35	1	D7	HET1_18	LED WHITE HIGH BRIGHT USS 0603	Lite-On Inc	LTW-C193TS5		d0603	
36	1	D8	HET1_29	LED WHITE HIGH BRIGHT USS 0603	Lite-On Inc	LTW-C193TS5		d0603	
37	1	D9	100Mb	LED BLUE HIGH BRIGHT USS 0603	Lite-On Inc	LTST-C193TBKT-5A		d0603	
38	2	D10,D11	LED	LED BLUE HIGH BRIGHT USS 0603	Lite-On Inc	LTST-C193TBKT-5A		d0603	
39	1	D12	LED	LED BLUE HIGH BRIGHT USS 0603	Lite-On Inc	LTST-C193TBKT-5A		d0603	
40	1	D13	SMCJ18A	DIODE TVS 18V 1500W UNI 5% SMD	BOURNS INC (VA)	SMCJ18A		SMC-DO-214AB	
41	1	D14	MURS120T3	DIODE ULTRA FAST 1A 200V SMB	ON SEMICONDUCTOR (VA)	MURS120T3G		SMB	
42	2	D18,D19	DIODE SCHOTTKY	DIODE SCHOTTKY 100MA 30V 1005	COMCHIP TECHNOLOGY (VA)	CDBF0130L		d1005_pol	
43	1	E1	NFM21PC474R1C3D	FILTER LC HIGH FREQ .47UF 0805	MURATA ELECTRONICS (VA)	NFM21PC474R1C3D		NFM21P	
44	1	F1	2A_QuickBlow	FUSE 2A 32V FST 0603 LEADFREE	LITTELFUSE INC (VA)	0467002.NR		F0603	
45	1	J1	J0011D21B	CONN PULSEJACK 1PORT 10/100B-TX	PULSE ELECTRONICS CORPORATION	J0011D21BNL		rj45-pulse_J0	
46	2	J2,J3	CON3	TERM BLOCK 3.5MM VERT 3POS PCB	ON SHORE TECHNOLOGY INC	OSTTE030161		11mmx7mm	
47	1	J4	ARM20PIN_JTAG	CONN HEADER 20POS .100" SMD TIN	SAMTEC INC	TSM-110-01-T-DV		10x2	
48	1	J6	NO-POP	CONN RECEPT 38POS .025 VERT SMD	TYCO ELECTRONICS AMP	2-5767004-2		SMC_MICTOR38	
49	1	J7	USBMINI_B	CONN USB RCPT MINI B 5PS R/A SMD	JAE ELECTRONICS	DX2R005HN2E700		USB-MiniB	
50	2	J8,J13	JUMPER	JUMPER PLUG 2POS SINGLE ROW	OMRON ELECTRONICS INC-EMC DIV	XG8S-0231		2_54MMTHROUGHHOLE	
51	1	J9	EXP_P1	CONN RCPT 2MM 66POS DL VERT PCB	SAMTEC INC (VA)	MMS-133-01-T-DV		MMS_2mmx33	
52	1	J10	EXP_P2	CONN RCPT 2MM 66POS DL VERT PCB	SAMTEC INC (VA)	MMS-133-01-T-DV		MMS_2mmx33	
53	1	J11	EXP_P3	CONN RCPT 2MM 80POS DL VERT PCB	SAMTEC INC	MMS-140-01-T-DV		MMS_2mmx40	
54	1	J12	NO-POP	CONN RECEPT 38POS .025 VERT SMD	TYCO ELECTRONICS AMP	2-5767004-2		SMC_MICTOR38	

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55	1	J15	MicroSD Slot	CONN MINI MICRO-SD 8PIN PCB GOLD	Amphenol Commercial Products	101-00660-68-6		MicroSD	
56	1	J16	NO-POP	CONN USB JACK TYPE B HORIZON R/A	FCI	61729-1010BLF		USB-B	
57	1	J18	NO-POP	CONN RCPT USB TYPE A FLAG PCB	FCI	73725-0110BLF		USB-A	
58	1	J19	ETM-MIPI	CONN RCPT HI-SPD .5MM 60POS DL	SAMTEC INC	QSH-030-01-L-D-A		30x2	
59	2	LED1,LED2	RGB LED	LED CHIP RGB 2.5X1.0X1.0MM SMD	Lumex Opto/Components Inc	SML-LX0404SIUPGUSB		RGB_LED	
60	3	L1,L3,L4	Ferrite	FERRITE 500MA 600 OHM 0805 SMD	LAIRD-SIGNAL INTEGRITY PRODUCTS (VA)	HZ0805E601R-10		L0805	
61	2	L2,L5	Ferrite	FERRITE CHIP 220 OHM 2000MA 0805	MURATA ELECTRONICS (VA)	BLM21PG221SN1D		L0805	
62	3	L6,L7,L10	BLM41P750SPT	FERRITE 3A 114 OHMS 1806 SMD	LAIRD-SIGNAL INTEGRITY PRODUCTS	HI1806N910R-10		L1806	
63	1	L8	BLM41P750SPT	FERRITE 3A 114 OHMS 1806 SMD	LAIRD-SIGNAL INTEGRITY PRODUCTS	HI1806N910R-10		L1806	
64	1	L9	10 uH	INDUCTOR 10UH 4.7A 20% SMD	TAIYO YUDEN (VA)	NR10050T100M		NR10050	
65	1	P1	DC8	CONN POWER JACK 2.1MM	CUI INC	PJ-002A		100438	
66	1	Q1	FJV3109R	TRANS NPN LP 100MA 30V SOT23	ON SEMICONDUCTOR (VA)	BC848ALT1G		sot23-28x44	
67	5	RN1,RN2,RN3,RN10,RN11	R_Pak8	RES ARRAY 22 OHM 5% 8 RES SMD	PANASONIC - ECG (VA)	EXB-2HV220JV		EXB-2HVS	
68	1	RN18	RPACK4-10K	RES ARRAY 10K OHM 5% 4 RES SMD	PANASONIC - ECG (VA)	EXB-28V103JX		EXB-28VS	
69	1	RN19	RPACK4-1K	RES ARRAY 1.0K OHM 5% 4 RES SMD	PANASONIC - ECG (VA)	EXB-28V102JX		EXB-28VS	
70	1	RN25	RPACK4-0	RES ARRAY 22 OHM 5% 4 RES SMD	PANASONIC - ECG (VA)	EXB-28V220JX		EXB-28VS	

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71	60	R1,R2,R3,R4,R5,R6,R7,R8,R9,R10,R11,R12,R13,R14,R15,R16,R17,R18,R19,R20,R21,R22,R24,R25,R26,R27,R28,R29,R31,R87,R88,R89,R90,R94,R96,R98,R100,R102,R104,R106,R108,R121,R122,R123,R124,R125,R129,R130,R133,R134,R137,R145,R158,R169,R182,R183,R190,R219,R246,R279	0 ohm	RES 0.0 OHM 1/10W 0402 SMD	PANASONIC - ECG	ERJ-2GE0R00X		r0402	
72	3	R23,R30,R136	NP	RES 0.0 OHM 1/10W 0402 SMD	PANASONIC - ECG	ERJ-2GE0R00X		r0402	
73	38	R32,R33,R34,R35,R51,R52,R53,R55,R56,R57,R58,R59,R60,R71,R72,R81,R82,R83,R84,R91,R92,R126,R127,R128,R154,R156,R157,R168,R207,R273,R274,R275,R310,R382,R383,R384,R385,R386	10K ohm	RES 10K OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ103X		r0402	
74	52	R36,R37,R38,R39,R40,R41,R42,R43,R44,R45,R46,R47,R48,R49,R50,R61,R78,R79,R80,R93,R97,R161,R162,R171,R173,R251,R252,R253,R254,R255,R260,R262,R349,R362,R363,R364,R365,R366,R367,R368,R369,R370,R371,R372,R373,R374,R375,R376,R377,R378,R379,R380	22 ohm	RES 22 OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ220X		r0402	
75	8	R131,R237,R239,R240,R241,R290,R308,R387	1k ohm	RES 1.0K OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ102X		r0402	

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76	2	R132,R138	100 ohm	RES 100 OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ101X		r0402	
77	13	R135,R194,R195,R197,R200,R205,R206,R209,R242,R243,R244,R245,R247	2.2K ohm	RES 2.20K OHM 1/10W 1% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2RKF2201X		r0402	
78	5	R140,R141,R142,R143,R144	0.02 ohm	RESISTOR .020 OHM 1W 1% 2512	PANASONIC - ECG (VA)	ERJ-M1WSF20MU		r2512	
79	6	R146,R147,R149,R150,R152,R153	2.2K ohm	RES 680 OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2RKF2201X		r0402	
80	1	R148	Thermal Resistor	THERMISTOR 100K OHM NTC 0603 SMD	MURATA ELECTRONICS (VA)	NCP18WF104J03RB		r0603	
81	4	R151,R159,R184,R312	100K ohm	RES 100K OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ104X		r0402	
82	1	R155	4.99k ohm	RES 4.99K OHM 1/10W 1% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2RKF4991X		r0402	
83	2	R160,R187	20K ohm	RES 20K OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ203X		r0402	
84	2	R163,R164	15K ohm	RES 15K OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ153X		r0402	
85	3	R165,R178,R188	1M ohm	RES 1.0M OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ105X		r0402	
86	1	R166	100K ohm	RES 100K OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ104X		r0402	
87	2	R177,R189	1.5K ohm	RES 1.5K OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ152X		r0402	
88	1	R193	NP	RES 2.20K OHM 1/10W 1% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2RKF2201X		r0402	
89	6	R196,R208,R248,R249,R250,R261	360 ohm	RES 360 OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ361X		r0402	
90	1	R199	4.87K ohm, 1%	RES 4.87K OHM 1/10W 1% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2RKF4871X		r0402	
91	4	R201,R202,R203,R204	49.9 ohm 1%	RES 49.9 OHM 1/10W 1% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2RKF49R9X		r0402	
92	4	R210,R235,R256,R311	0	RES 0.0 OHM 1/10W 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GE0R00X		r0402	
93	1	R211	NO-POP	RES 2.20K OHM 1/10W 1% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2RKF2201X		r0402	
94	9	R212,R216,R220,R234,R268,R283,R284,R286,R287	10k ohm	RES 10K OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ103X		r0402	
95	4	R213,R214,R217,R218	62 ohm	RES 62 OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ620X		r0402	

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96	1	R215	NO-POP	RES 10K OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ103X		r0402	
97	10	R221,R222,R223,R224,R225,R226,R227,R263,R271,R288	22 ohm	RES 22 OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ220X		r0402	
98	7	R228,R229,R230,R231,R232,R233,R292	NO-POP					r0402	
99	1	R236	220 ohm	RES 220 OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ221X		r0402	
100	1	R238	12K ohm, 1%	RES 12.0K OHM 1/10W 1% 0603 SMD	PANASONIC - ECG (VA)	ERJ-3EKF1202V		r0603	
101	1	R264	5.1K ohm	RES 5.1K OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ512X		r0402	
102	3	R265,R266,R267	120K ohm	RES 120K OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ124X		r0402	
103	1	R276	2.2K ohm	RES 2.2K OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ222X		r0402	
104	1	R282	25.2K ohm	RES 25.5K OHM 1/10W 1% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2RKF2552X		r0402	
105	1	R285	2.2K ohm	RES 2.2K OHM 1/10W 1% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ222X		r0402	
106	1	R291	0 ohm	RES 0.0 OHM 1/10W 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GE0R00X		r0402	
107	1	R293	NO-POP	RES 95.3K OHM 1/10W 1% 0402 SMD	PANASONIC - ECG (VA)			r0402	
108	2	R295,R435	1K ohm	RES 1.0K OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ102X		r0402	
109									
110	1	R299	113 ohm, 1%	RES 113 OHM 1/4W 1% 1206 SMD	PANASONIC - ECG (VA)	ERJ-8ENF1130V		r1206	
111	1	R300	294 ohm, 1%	RES 294 OHM 1/10W 1% 0603 SMD	PANASONIC - ECG (VA)	ERJ-3EKF2940V		r0603	
112	1	R301	340 ohm, 1%	RES 340 OHM 1/10W 1% 0603 SMD	PANASONIC - ECG (VA)	ERJ-3EKF3400V		r0603	
113	1	R302	10K ohm	RES 5.6K OHM 1/10W 5% 0603 SMD	PANASONIC - ECG (VA)	ERJ-3GEYJ103V		r0603	
114	1	R303	5.90K ohm, 1%	RES 5.90K OHM 1/10W 1% 0603 SMD	PANASONIC - ECG (VA)	ERJ-3EKF5901V		r0603	
115	1	R304	NO-POP	RES 10K OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ103X		r0402	
116	1	R305	7.5K ohm, 1%	RES 7.50K OHM 1/10W 1% 0603 SMD	PANASONIC - ECG (VA)	ERJ-3EKF7501V		r0603	
117	1	R306	4.64K ohm, 1%	RES 4.64K OHM 1/10W 1% 0603 SMD	PANASONIC - ECG (VA)	ERJ-3EKF4641V		r0603	

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118	1	R307	1K ohm, 1%	RES 1.00K OHM 1/10W 1% 0603 SMD	PANASONIC - ECG (VA)	ERJ-3EKF1001V		r0603	
119	1	S1	Push Button			SKRKAHE010		SW-SMT2	
120	1	S2	DIP_SWITCH_4	SWITCH DIP 4POS HALF PITCH SMD	C&K COMPONENTS (VA)	TDA04H0SB1R		DIP_SWITCH_4	
121	1	S3	WARM_RESET Button			SKRKAHE010		SW-SMT2	
122	1	S4	POR_RESET Button			SKRKAHE010		SW-SMT2	
123	18	TP1,TP2,TP3,TP8,TP9,TP10,TP11,TP12,TP14,TP15,TP16,TP17,TP18,TP19,TP20,TP21,TP22,TP23	TestPoint1					tp1-6040	
124	4	TP4,TP5,TP6,TP7	TestPoint1					tp1-10080	
125	1	T1	IRLML6302	MOSFET P-CH 20V 780MA SOT-23	INTERNATIONAL RECTIFIER (VA)	IRLML6302TRPBF		SOT23	
126	1	U1	TMS570LS3x			TMS570LS3x		BGA337	
127	1	U2	SN74LVC1G07DCK	IC BUFF/DVR NON-INVERT SC705	TEXAS INSTRUMENTS (VA)	SN74LVC1G07DCKR		SC70-5	
128	1	U8	IS42S16400F-7BL	IC SDRAM 64MBIT 143MHZ 54BGA	ISSI	IS42S16400F-7BL		54FBGA	
129	1	U9	TEMT6000	AMBIENT LIGHT SENSOR 1206 SMD	VISHAY/SEMICONDUCTORS (VA)	TEMT6000X01		4mmL2mmW	
130	1	U10	SN74CBT16214DGGR	IC 1-OF-3 FET MUX/DEMUX 56-TSSOP	TEXAS INSTRUMENTS (VA)	SN74CBT16214DGGR		TSSOP56	
131	2	U12,U18	NO-POP	IC PWR DIST SWITCH ADJ SOT23-6	TEXAS INSTRUMENTS	TPS2553DBVT		SOT-23-6	
132	2	U13,U15	NO-POP	IC SRL BUS TXRX UNVRSL 16-VQFN	TEXAS INSTRUMENTS (VA)	TUSB1105RGTR		QFN-RGT	
133	3	U19,U41,U42	SN74CBTLV3257RGYR	IC 4BIT 1-4 FET MUX/DEMUX 16VQFN	TEXAS INSTRUMENTS (VA)	SN74CBTLV3257RGYR		16QFN	
134	1	U20	DP83640	TXRX PHY IEEE 1PORT 1588 48-LQFP	NATIONAL SEMICONDUCTOR	DP83640TVV/NOPB		48LQFP	
135	2	U21,U22	SN65HVDA541	IC TXRX CAN W/STANDBY 5V 8SOIC	TEXAS INSTRUMENTS (VA)	HVDA541QDRQ1		8SOIC	
136	1	U24	SN74AHC1G14	IC SGL SCHMT-TRG INV GATE SC70-5	TEXAS INSTRUMENTS (VA)	SN74AHC1G14DCKR		SC70-5	

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
137	1	U25	TPS73433	IC LDO REG 3.3V 250MA 6-SON	TEXAS INSTRUMENTS (VA)	TPS73433DRVR		TI_SON6-PWP	
138	1	U26	TPD2E001	IC ESD-PROT ARRAY 2CH SOT-5	TEXAS INSTRUMENTS (VA)	TPD2E001DRLR		SOT5	
139	1	U27	FT2232HL	IC USB UART/FIFO DUAL HS 64LQFP	FTDI (VA)	FT2232HL-REEL		64LQFP	
140	1	U28	93LC56C-I/SN	IC EEPROM 1KBIT 2MHZ 8SOIC	MICROCHIP TECHNOLOGY	93LC56C-I/SN		8SOIC	
141	1	U29	XC2C32A_CPG56	IC CR-II CPLD 32MCELL 56-CSBGA	XILINX INC	XC2C32A-6CPG56C		CFG56	
142	1	U30	LMV341IDCKR	IC OPAMP GP R-R 7MHZ SGL SOT23-6	TEXAS INSTRUMENTS (VA)	LMV341IDCKR		DCK_SC70	
143	1	U32	SN74LVC3G07	IC BUFF/DVR TRPL N-INV 8VSSOP	TEXAS INSTRUMENTS (VA)	SN74LVC3G07DCUR		VSSOP8	
144	2	U33,U34	TPS3808G09DBVR	IC VOLT SUPERVISOR 0.9V SOT23-6	TEXAS INSTRUMENTS (VA)	TPS3808G09DBVR		SOT-23-6	
145	1	U35	TPS73701DRB	IC REG LDO CAP FREE 8-SON	TEXAS INSTRUMENTS (VA)	TPS73701DRBR		DRB_SON8	
146	1	U36	REG1117	IC LOW DROPOUT ADJ REG SOT23-4	TEXAS INSTRUMENTS	REG1117		SOT-223	
147	1	U37	TPS54350PWP	IC SYNC BUCK PWM CONV 16-HTSSOP	TEXAS INSTRUMENTS	TPS54350PWP		PSOP16T	
148	1	U39	TPS73733QDRBRQ1	IC LDO REG 1A 3.3V 8-SON	TEXAS INSTRUMENTS (VA)	TPS73733QDRBRQ1		DRB_SON8	
149	3	U43,U44,U45	SN74CBTLV3257RGYR	IC 4BIT 1-4 FET MUX/DEMUX 16VQFN	TEXAS INSTRUMENTS (VA)	SN74CBTLV3257RGYR		VQFN16	
150	1	U46	SN74LVC1G08	IC SNGL 2IN POS-AND GATE SOT-5	TEXAS INSTRUMENTS (VA)	SN74LVC1G08DRLR		SOT-553	
151	1	U47	SN74CBTLV3245ARGY	IC OCTAL FET BUS SW LV 20-VQFN	TEXAS INSTRUMENTS (VA)	SN74CBTLV3245ARGYR		RGY_QFN20	
152	1	Y1	16 MHz	CRYSTAL 16.000 MHZ 18PF SMD	TXC CORPORATION (VA)	7A-16.000MAAJ-T		SMD2	

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
153	1	Y2	ABM8G-12.000MHZ-B4Y-T	CRYSTAL 12.000 MHZ 10 PF SMD	ABRACON CORPORATION (VA)	ABM8G-12.000MHZ-B4Y-T		ABM8G-SMT4	
154	1	Y3	ASEM1-25.000MHZ-LC-T	OSC MEMS 25.000 MHZ 3.3V SMD	ABRACON CORPORATION	ASEM1-25.000MHZ-LC-T		ASEM-SMT4	
155	1	R313	NO-POP	RES 2.2K OHM 1/10W 1% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ222X		r0402	
156	2	R180,R181	NO-POP	RES 15K OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ153X		r0402	
157	1	J17	NO-POP	CONN RCPT USB TYPE A FLAG PCB	FCI	73725-0110BLF		USB-A	
158	1	c117	NO-POP	CAP CER .10UF 16V X5R 0402	TAIYO YUDEN (VA)	EMK105BJ104KV-F		c0402	
159	1	R294	1K ohm	RES 1.0K OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ102X		r0402	
160	1	R296	1.5K ohm	RES 1.5K OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ152X		r0402	
161	1	R297	560 ohm	RES 560 OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ561X		r0402	
162	1	Q2	IRLML6346	MOSFET N-CH 30V 3.4A SOT23	INTERNATIONAL RECTIFIER (VA)	IRLML6346TRPBF		SOT23	
163	1	R139	1K ohm	RES 1.0K OHM 1/10W 5% 0402 SMD	PANASONIC - ECG (VA)	ERJ-2GEJ102X		r0402	
164	1	C178	1uF	CAP CERAMIC 1UF 10V X5R 0402	PANASONIC - ECG (VA)	ECJ-0EB1A105M		c0402	

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