

Bill of Materials

TI DESIGNS

TIDA-01474 P5 Formatter Board

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	PCB Footprint	Do Not Install	Notes
1	12	C1,C2,C3,C6,C25,C52,C641,C656,C657,C658,C667,C668,C669	22 uF	Capacitor 22 uF 10% 16V XSR 1210	MURATA	GRM32ER61C226KE20L	1210		
2	116	C2,C3,C4,C5,C9,C10,C11,C12,C13,C14,C29,C30,C34,C35,C38,C39,C40,C41,C10.1 uF		Capacitor 0.1 uF 10% 10V X7R 0402	KEMET	C0402C104K8RACTU	0402		
3	4	C6,C28,C513,C608	0.22 uF	Capacitor 0.22 uF 10% 25V X7R 0805	KEMET	C0805C224K5RACTU	0805		
4	8	C7,C8,C24,C25,C507,C514,C545,C546	0.1 uF	Capacitor 0.1 uF 20% 50V X7R 0805	AVX	08055C104MAT2A	0805		
5	6	C15,C31,C522,C524,C643,C647	47 uF	Capacitor 47 uF 10% 10V XSR 1210	MURATA	GRM32ER61A476KE20L	1210		
6	3	C16,C37,C644	1 uF	Capacitor 1 uF 10% 16V X7R 0805	KEMET	C0805C105K4RACTU	0805		
7	1	C17	22 pF	Capacitor 22 pF 5% 50V NPO 0402	YAGEO	CC0402JRNPO98N220	402		
8	3	C18,C525,C645	0.01 uF	Capacitor 0.01 uF 10% 25V X7R CAP_0603	YAGEO	CC0603KRXR88BB103	0603		
9	12	C19,C21,C32,C33,C648,C649,C661,C663,C666,C670,C671,C673	0.1 uF	Capacitor 0.1 uF 10% 25V X7R CAP_0603	YAGEO	CC0603KRXR88BB104	0603		
10	2	C20,C36	10 uF	Capacitor 10 uF 20% 25V X7R 1210	TDK	C3225X7R1E106M	1210		
11	3	C27,C42,C506	4.7 uF	Capacitor 4.7 uF 10% 25V X7R 0805	TDK	C3012X7R1E1475K	0805	C523	
12	7	C500,C501,C502,C549,C550,C551,C605	0.001 uF	Capacitor 0.001 uF 10% 50V X7R 0805	AVX	08055C102KAT2A	0805		
13	8	C505,C512,C518,C519,C607,C609,C632,C633	0.33 uF	Capacitor 0.33 uF 10% 25V X7R 0805	MURATA	GRM21BR71E334KA01L	0805		
14	0		180 pF	Capacitor 180 pF 5% 50V NPO CAP_0603	YAGEO	CC0603JRNPO98N181	0603	C510,C634	
15	8	C526,C538,C547,C575,C577,C635,C636,C638	10 uF	Capacitor 10 uF 10% 10V X7R 0805	MURATA	GRM21BR71A106KE51L	0805		
16	4	C527,C537,C576,C637	100 uF	Capacitor 100 uF 20% 6.3V X7R CAP_1206	MURATA	GRM31CR60J107ME39L	1206		
17	2	C531,C532	33 pF	Capacitor 33 pF 1% 50V NPO 0402	TDK	C1005C0G1H330F	0402		
18	11	C578,C613,C614,C615,C616,C617,C618,C619,C620,C621,C622	15 pF	Capacitor 15 pF 5% 16V NPO 0402	AVX	0402YA150AT2A	0402		
19	3	C606,C631,C639	100 uF	Capacitor 100 uF 20% 25V CAP-FK-V-CASEE_PAN	PANASONIC	EEE-FK1E101P	CAP-FK-V-CASEE_PAN		
20	0		68 pF	Capacitor 68 pF 5% 50V NPO CAP_0603	YAGEO	CC0603JRNPO98N680	0603	C610,C642	
21	1	C675	0.1 nF	Capacitor 0.1 nF 5% 50V NPO CAP_0603	KEMET	C0603C101J5GACTU	0603		
22	8	DN500, DN501, DN502, DN503, DN505, DN506, DN507, DN508		Diode, Schottky, Dual BAT54SWT1G 30V, 200mA SOT_323	ON SEMI	BAT54SWT1G	SOT_323		
23	0			Diode, Schottky, Dual BAT54C 30V, 300mA SOT23AVXC	STMICRO	BAT54CFILM	SOT23AVXC	DN504	
24	7	D1,D2,D3,D4,D6,D7,D8		Diode, Schottky B220A 20V, 2A DIO-SMA	DIODES INC	B220A-13-F	DIO-SMA		
25	1	D5		Diode MUR320T3G 200V, 4A SMC_ST	ON SEMI	MUR320T3G	SMC_ST		
26	0	NA	NA	NA	NA	NA	NA	NA	NA
27	1	D500		Diode MURS220T3G 200V DIO-SMB	ON SEMI	MURS220T3G	DIO-SMB		
28	1	D501		Diode, Schottky B3408 40V, 3A DIO-SMB	DIODES INC	B3408-13-F	DIO-SMB		
29	6	D502, D503, D504, D505, D506, D507		Diode, Schottky STPS0560Z 60V, 500mA SOD-123	STMICRO	STPS0560Z	SOD-123		
30	1	FB1	80 ohm	Ferrite 80 ohm 5A, 100MHz IND_0805	STEWAR	H1805R800R-10	IND_0805		
31	2	FB2,FB3	100 Ohm	Ferrite 100 Ohm 2A, 100MHz FLTR_0603	Taiyo Yuden	FBM11608HM101-T	FLTR_0603		
32	7	FB500,FB501,FB502,FB503,FB504,FB505,FB506	470 Ohm	Ferrite 470 Ohm 500mA, 100MHz FLTR_0603	MURATA	BLM18AG471SN1D	FLTR_0603		
33	2	J1,J2		Connector, 120 pin conn_120_QTH CN120_QTH_SAMTEC	SAMTEC	QTH-060-01-L-D-A	CN120_QTH_SAMTEC		
34	12	J3,J9,J10,J11,J12,J13,J21,J29,J40,J41,J44,J46		Jumper, 1x3 JUMPER-1x3 HDR1X3-TMM1030X-X-S_SAM	HARWIN	M22-2510305	HDR1X3-TMM1030X-X-S_SAM		
35	1	J4		Connector, USB type-B CON4 CONN4-67068-1000_MOLEX	MOLEX	67068-8000	CONN4-67068-1000_MOLEX		
36	7	J5,J6,J8,J20,J31,J34,J45		Jumper, 1x2 HDR_2 HDR2_2MM	HARWIN	M22-2510205	HDR2_2MM		
37	2	J7,J16		Connector, 9 pin, D-Sub RS232 KYCON-CN95SMTA	KYCON	K20XHT-E95-N	KYCON-CN95SMTA		
38	1	J14		Connector, 10 pin CONN10RA CONN-SQT-110_SAMTEC	SAMTEC	SQT-110-01-L-S-RA-003	CONN-SQT-110_SAMTEC		
39	1	J15		Connector, 10 pin CONN10 CONN-SQT-110_SAMTEC	SAMTEC	SQT-110-01-L-S-003	CONN-SQT-110_SAMTEC		
40	2	J17,J24		Connector, 5 pin CON5 CONN5-53398-0590_MOLEX	MOLEX	53398-0571	CONN5-53398-0590_MOLEX		
41	1	J18		Connector, 2x11 pin CON22 CONN22-B228-PHD_JST	JST	B228-PHDS(LF)(SN)	CONN22-B228-PHD_JST		
42	1	J19		Connector, 20 pin CON20A CONN20-TSM110-0-X-DV-A_SAMTEC	SAMTEC	TSM-110-01-SM-DV	CONN20-TSM110-0-X-DV-A_SAMTEC		
43	1	J22		Connector, Power Jack POWER_12V_INPUT CUI_PJ-002AH	CUI	PJ-002AH	CUI_PJ-002AH		
44	1	J23		Connector, 20 pin CON20A HDR10X2-5103308_TYCO	TE	5103308-5	HDR10X2-5103308_TYCO		
45	14	J25,J26,J30,J37,J38,J39,J52,J53,J55,J57,J59,J60,J61,J62		Connector, 3 pin CON3 CN3_53398_MOLEX	MOLEX	53398-0371	CN3_53398_MOLEX		
46	1	J27		Connector, 38 pin ARM_TRACE_PORT MICTOR_HPA	TYCO	2-5767004-2	MICTOR_HPA		
47	1	J28		Header, 12 pin CON12 CONN12-SMT-TSM-112-SV_SAMTEC	SAMTEC	TSM-112-03-SM-SV	CONN12-SMT-TSM-112-SV_SAMTEC		
48	1	J32		Header, 8 pin JUMPER_8A CONN8-43045-0813_MOLEX	MOLEX	43045-0812	CONN8-43045-0813_MOLEX		
49	1	J33		Connector, 12 pin CON12 CONN12-53398_MOLEX	MOLEX	53398-1271	CONN12-53398_MOLEX		
50	1	J35		CON14 CONN14-53047_MLX	MOLEX	53047-1410	CONN14-53047_MLX		
51	4	J36,J49,J50,J51		Connector, 4 pin CONN_4 CONN4-53398_MOLEX	MOLEX	53398-0471	CONN4-53398_MOLEX		
52	3	J42,J43,J48		Connector, 6 pin CON6 CONN6-53398-0690_MOLEX	MOLEX	53398-0671	CONN6-53398-0690_MOLEX		
53	1	J47		Connector, 14 pin, ribbon CON14 CONN14-XF2M_OMRON	OMRON	XF2M-1415-1A	CONN14-XF2M_OMRON		
54	1	J54		Connector 12 HEADER Flex CONN12-FH12_HRS	HIROSE	FH12-125-0.5SH(55)	CONN12-FH12_HRS		
55	2	J56,J58		Connector, 4 pin, ribbon CON4 CONN4-52808_MOLEX	MOLEX	52808-0470	CONN4-52808_MOLEX		
56	1	J500		Flex Connector DMD_FLEX_CONNECTOR DMD_FLEX			DMD_FLEX		
57	2	L1,L6	4.7 uH	Inductor 4.7 uH 20% 2.5A IND_SRR1005	BOURNS	SRR1005-4R7M	IND_SRR1005		
58	2	L2,L7	33 uH	Inductor 33 uH 15% 1.2A IND_SRR1005	BOURNS	SRR1005-330Y	IND_SRR1005		
59	3	L3,L8,L9	10 uH	Inductor 10 uH 20% 2A IND_SRR1005	BOURNS	SRR1005-100M	IND_SRR1005		
60	1	L4	2.2 uH	Inductor 2.2 uH 20% 4.02 A IND_7.3mmx7.3mm	WURTH	7447789002	IND_7.3mmx7.3mm		
61	1	L5	15 uH	Inductor 15 uH 20% 1.7A IND_SRR1005	BOURNS	SRR1005-150M	IND_SRR1005		
62	6	L500,L501,L502,L503,L504,L505	47 uH	Inductor 47 uH 20% 600mA IND_SERH	PANASONIC	ELLE6H470M	IND_SERH		
63	4	Q1,Q2,Q500,Q505		MOSFET N-CH 25V 2.5A DPAK	ON SEMI	NTD14N03B74G	SM_TQ_252_DPAK		
64	6	Q3,Q5,Q01,Q502,Q503,Q504,Q507		Transistor, NPN 2N2222A 40V, 500mA SOT23AVXD	FAIRCHILD	MMBT2222A	SOT23AVXD		
65	1	Q4		Transistor, Darlington NPN MMBT6427 40V, 500mA SOT23AVXD	DIODES	MMBT6427-7-F	SOT23AVXD		
66	1	Q5		MOSFET, P-Channel NDT456P SOT223	FAIRCHILD	NDT456P	SOT223		
67	1	Q56		MOSFET, P-Channel FDN306P SOT23-3_FC	ON SEMI	FDN306P	SOT23-3_FC		
68	4	RN500,RN501,RN502,RN503	10K	Resistor Network 10K 5% 1/16W RNET8-EXB38V_PAN	PANASONIC	EXB-38V103JV	RNET8-EXB38V_PAN		
69	2	RN504,RN505		33 Resistor Pack 33 5% 1/16W RNET16-EXB-2HV_PAN	PANASONIC	EXB-2HV330JV	RNET16-EXB-2HV_PAN		
70	27	R1,R11,R12,R56,R512,R528,R548,R549,R554,R559,R601,R670,R701,R713,R_1K		Resistor 1K 5% 1/10W RES_0402	PANASONIC	ERJ-2GEJ102X	0402	R44,R637,R638,R639,R640,R641,R717,R764	
71	46	R3,R9,R13,R15,R18,R19,R29,R30,R505,R506,R511,R513,R532,R553,R567,R5		0 Resistor 0 1/10W RES_0402	PANASONIC	ERJ-2GEOR00X	0402	R2,R10,R14,R503,R504,R507,R514,R533,R552,R557,	
72	6	R4,R5,R7,R25,R28,R609		0 Resistor 0 1/8W RES_0805	PANASONIC	ERJ-6GEYOR00V	0805	R561,R566,R569,R580,R582,R591,R615,R618,R622,	
73	2	R6,R31		2.2 Resistor 2.2 1% 1/4W RES_1206	PANASONIC	ERJ-8RQZ2R2V	1206	R623,R625,R667,R682,R683,R685,R687,R766,R777	
74	25	R8,R36,R48,R57,R58,R59,R71,R72,R73,R522,R530,R605,R646,R647,R649,RE 3.3K		Resistor 3.3K 5% 1/10W RES_0402	PANASONIC	ERJ-2GEJ332X	0402	R712	
75	2	R16,R611		0.1 Resistor 0.1 1% 1/8W RES_0805	PANASONIC	ERJ-L06K10CV	0805		

76	1 R17	169K	Resistor 169K 1% 1/10W RES_0402	PANASONIC	ERJ-2RKF1693X	0402	
77	1 R21	110K	Resistor 110K 1% 1/10W RES_0402	PANASONIC	ERJ-2RKF1103X	0402	
78	40 R22,R23,R32,R34,R51,R514,R535,R550,R562,R571,R572,R573,R574,R575,I10K		Resistor 10K 1% 1/10W RES_0402	PANASONIC	ERJ-2RKF1002X	0402	R681
79	10 R24,R26,R27,R33,R35,R42,R43,R527,R551,R594,R702		0.01 Resistor 0.01 1% 1/8W RES_0805	VISHAY/DALE	WLSL0805R0100FEA	0805	R20,R41,R61,R698
80	50 R37,R38,R39,R40,R49,R50,R51,R52,R53,R54,R55,R62,R63,R64,R65,R66,R74		33 Resistor 33 5% 1/10W RES_0402	PANASONIC	ERJ-2GEJ330X	0402	R619,R624,R631,R680,R726
81	2 R45,R711	2K	Resistor 2K 5% 1/10W RES_0402	PANASONIC	ERJ-2GEJ202X	0402	
82	1 R46		470 Resistor 470 1% 1/10W RES_0402	PANASONIC	ERJ-2RKF470DX	0402	
83	1 R47		1 Resistor 1 5% 1/10W RES_0603	PANASONIC	ERJ-3GEY1R00X	0603	
84	1 R60		768 Resistor 768 1% 1/10W RES_0402	PANASONIC	ERJ-2RKF768DX	0402	
85	7 R67,R68,R69,R70,R725,R741,R742		220 Resistor 220 5% 1/10W RES_0603	PANASONIC	ERJ-3GEYJ221V	0603	
86	6 R500,R501,R502,R563,R576,R577		150 Resistor 150 5% 1/4W RES_1206	PANASONIC	ERJ-P08I151V	1206	
87	1 R509		909 Resistor 909 1% 1/16W RES_0402	VISHAY/DALE	CRCW0402909RKFED	0402	
88	1 R510	5.1K	Resistor 5.1K 1% 1/16W RES_0402	YAGEO	RC0402FR-075K1L	0402	
89	2 R515,R520		10 Resistor 10 5% 1/10W RES_0603	PANASONIC	ERJ-3GEYJ100V	0603	
90	1 R516	24.9K	Resistor 24.9K 1% 1/10W RES_0402	PANASONIC	ERJ-2RKF2492X	0402	
91	2 R518,R519		22 Resistor 22 1% 3/4W RES_2010	VISHAY	CRCW201022R0KFKEF	2010	
92	1 R521	80.6K	Resistor 80.6K 1% 1/10W RES_0402	PANASONIC	ERJ-2RKF8062X	0402	
93	3 R523,R651,R652	1.6K	Resistor 1.6K 0.1% 1/16W RES_0402	PANASONIC	ERA-2AEB162X	0402	
94	5 R524,R526,R610,R659	2K	Resistor 2K 0.1% 1/16W RES_0402	PANASONIC	ERA-2AEB202X	0402	
95	1 R525	1K	Resistor 1K 0.1% 1/16W RES_0402	PANASONIC	ERA-2AEB102X	0402	Rev B: Updated value for R661, see Item 154
96	1 R529	22K	Resistor 22K 5% 1/10W RES_0603	PANASONIC	ERJ-3GEYJ223V	0603	
97	1 R531	1.5K	Resistor 1.5K 5% 1/10W RES_0603	PANASONIC	ERJ-3GEYJ152V	0603	
98	1 R536		0.36 Resistor 0.36 1% 1/8W 402	TE CONNECTIVITY	RUP73N1ER36FTDF	0402	
99	2 R555,R736		100 Resistor 100 5% 1/10W RES_0402	PANASONIC	ERJ-2GEJ101X	0402	
100	1 R556	1M	Resistor 1M 5% 1/10W RES_0402	PANASONIC	ERJ-2GEI105X	0402	
101	1 R558		1 Resistor 1.00 1% 1/16W 402	YAGEO	RC0402FR-071R1L	0402	
102	6 R585,R602,R642,R643,R644,R645		22 Resistor 22 1% 1/16W RES_0402	YAGEO	RC0402FR-0722R1L	0402	
103	11 R595,R626,R627,R628,R629,R630,R633,R634,R635,R636,R673		10 Resistor 10 1% 1/16W RES_0402	YAGEO	RC0402FR-0710R1L	0402	
104	0	4.7K	Resistor 4.7K 5% 1/10W RES_0402	PANASONIC	ERJ-2GEH472X	0402	R600
105	1 R606	47K	Resistor 47K 5% 1/10W RES_0402	PANASONIC	ERJ-2GEH473X	0402	
106	1 R608		330 Resistor 330 5% 1/10W RES_0402	PANASONIC	ERJ-2GEJ331X	0402	
107	2 R616,R662	18K	Resistor 18K 1% 1/16W RES_0402	VISHAY	CRCW40218K0KFED	0402	
108	2 R617,R663	14.5K	Resistor 14.5K 1% 1/16W RES_0402	VISHAY	CRCW40214K3KFED	0402	
109	1 R660		787 Resistor 787 0.1% 1/16W RES_0402	PANASONIC	ERA-2AEB7870X	0402	
110	1 R664	3K	Resistor 3K 1% 1/16W RES_0402	VISHAY	CRCW4023K0KFED	0402	Rev B: Updated value for new VDD spec
111	1 R665	10K	Resistor 10K 1% 1/16W RES_0402	VISHAY	CRCW40210K0KFED	0402	
112	1 R668	4.02K	Resistor 4.02K 1% 1/10W RES_0603	PANASONIC	ERJ-3EKF4021V	0603	
113	3 R703,R771,R772		110 Resistor 110 5% 1/8W RES_0805	PANASONIC	ERJ-6GEYJ111V	0805	
114	3 R706,R750,R755	2.2K	Resistor 2.2K 5% 1/10W RES_0603	PANASONIC	ERJ-3GEYJ222V	0603	
115	0		68 Resistor 68 5% 1/2W RES_1210	PANASONIC	ERJ-P14J680U	1210	R718,R719,R720,R747,R748,R749
116	0		2.4 Resistor 2.4 5% 1/2W RES_1210	PANASONIC	ERJ-14VJ24U	1210	R732,R733,R734,R768,R769,R770
117	1 R740	1K	Resistor 1K 1% 1/10W RES_0402	PANASONIC	ERJ-2RKF1001X	0402	
118	2 R751,R753	100K	Resistor 100K 5% 1/10W RES_0402	PANASONIC	ERJ-2GEI104X	0402	R705
119	2 R756,R773		75 Resistor 75 1% 1/10W RES_0603	PANASONIC	ERJ-3EKF75R0V	0603	
120	1 R774	6.49K	Resistor 6.49K 1% 1/10W RES_0402	PANASONIC	ERJ-2RKF6491X	0402	
121	1 SW1		Switch SW SPST SW_GT12	C&K COMPONENTS	GT12MSCBE	SW_GT12	
122	2 U1,U22		IC, IR Receiver/IR_RECVR VISHAY_IR_TSOP348	VISHAY	TSOP34838	VISHAY_IR_TSOP348	
123	2 U2,U15		IC, DLP/A100 QF48_PPAD	TI	DLPA100	QF48_PPAD	
124	1 U3		IC, Accelerometer TILT LCC8-MXD2125_MEMSIC	MEMSIC	MXD2020EL	LCC8-MXD2125_MEMSIC	
125	1 U4		IC, Bus-Exchange Switch 74CBTLV16212 SOIC56-DGG_TI	TI	SN74CBTLV16212GR	SOIC56-DGG_TI	
126	1 U5		IC, Accelerometer TILT_I2C LCC8-MXD2125_MEMSIC	MEMSIC	MXC62355QB	LCC8-MXD2125_MEMSIC	
127	2 U6,U12		IC, RS-232 Line Driver/Receiver SN75C3232E TSSOP_16	TI	SN75C3232EPWR	TSSOP_16	
128	1 U7		IC, Switching Voltage Regulator TP554327 10SON	TI	TP554327DDA	10SON	
129	3 U8,U515,U517		IC, 10 Ch Buffer 74LVC827A SOIC24-PW_TI	TI	SN74LVC827APWR	SOIC24-PW_TI	
130	2 U9,U10		IC, Non-Inverting Buffer, Tri-State, Dual 74LVC2G126 SSONP_8	TI	SN74LVC2G126DCTR	SSOP_8	
131	1 U11		IC, ASIC DDP442x/DDP442xHV BGA552-DDP4422_TI	TI	DDP442x/DDP442xHV	BGA552-DDP4422_TI	
132	1 U13		IC, SRAM SRAM_TSP0H_44	ALLIANCE	AS6C8016-55ZIN	TSP0H_44	
133	1 U14		IC, Flash Flash_TSP0P_56_48_DUAL_SKT	CYPRESS SEMI	S29JL064J70TF000	TSP0P_56_48_DUAL_SKT	
134	1 U16		IC, EEPROM, Serial AT24C32D 32K TSSOP_8	ATMEL	AT24C32D-XHM-T	TSSOP_8	
135	1 U17		IC, Voltage Regulator, Adjustable 1.2V-2.2V LM317L SOIC8-PW_TI	TI	LM317LIPWR	SOIC8-PW_TI	Rev B: Update P/N to match footprint
136	2 U18,U510		IC, Non-Inverting Buffer, Open Drain 74LVC1G07 SOT23-DBV_TI	TI	SN74LVC1G07DBVR	SOT23-DBV_TI	
137	3 U19,U500,U518		IC, Non-Inverting Buffer, Tri-State 74LVC1G126 SOT23-DBV_TI	TI	SN74LVC1G126DBVR	SOT23-DBV_TI	
138	1 U20		IC, Temperature Sensor TMP100 SOIC6-DBV_TI	TI	TMP100NA/250	SOIC6-DBV_TI	
139	1 U21		IC, GPIO Expander TCA8418 24QFN_TI	TI	TCA8418RTWR	24QFN_TI	
140	3 U501,U507,U509		IC, Non-Volatile POT, 256 Positions AD5252 256 POS 100K TSSOP_14	ANALOG DEVICES	AD5252BRU2100	TSSOP_14	
141	1 U502		IC, ESD Protection TPD4E1U06 SOT-23	TI	TPD4E1U06DBVR	SOT-23	
142	5 U503,U508,U520,U521,U524		IC, Non-Inverting Buffer, Tri-State 74LVC1G125 SOT23-DBV_TI	TI	SN74LVC1G125DBVR	SOT23-DBV_TI	
143	2 U504,U506		TPD4E001 SOT6_TI	TI	TPD4E001DLRL	SOT6_TI	
144	1 U505		IC, Microcontroller Low Power Microcontroller SOIC14-PW_TI	TI	MSP430F2011TPWR	SOIC14-PW_TI	
145	1 U511		IC, Supervisor TPS3838 SOT23-DBV_TI	TI	TPS3838K33DBVT	SOT23-DBV_TI	
146	2 U512,U519		IC, Comparator LM393 SOIC8-PW_TI	TI	LM393APWR	SOIC8-PW_TI	
147	1 U513		IC, Non-inverting Flip-Flop 74AUP1G79 SOT23-5	TI	SN74AUP1G79DBVR	SOT23-5	
148	1 U514		IC, Non-Inverting Buffer, Tri-State 74AHC1G125 SOT23-DBV_TI	TI	SN74AHC1G125DBVR	SOT23-DBV_TI	
149	1 U516		IC, 8 Ch Buffer 74LVC541A TVSOP20	TI	SN74LVC541A2QVTR	TVSOP20	
150	1 U522		IC, Non-Inverting Schmitt-Trigger Buffer 74LVC1G17 SOT23-DBV_TI	TI	SN74LVC1G17DBVR	SOT23-DBV_TI	
151	1 U523		IC, Inverter 74LVC1G06 SOIC5-DBV_TI	TI	SN74LVC1G06DBVR	SOIC5-DBV_TI	
152	2 VR1,VR2	20K	IC, Potentiometer 20K 20% 1/4W POT-3314G	BOURNS	3314G-1-203E	POT-3314G	
153	1 X500	20.0 MHz	Crystal 20.0 MHz +/-30PPM SMD_49	TXC CORPORATION	9C-20.000MAA1-T	SMD_49	
154	1 R661	1.8K	Resistor 1.8K 0.1% 1/16W RES_0402	PANASONIC	ERA-2AEB182X	0402	Rev B: Update value for new VDD spec
155	4 D9, D10, D12, D14	LED_GRN	LED GREEN CLEAR 0402 SMD	LUMEX OPTO	SML-LX0402SUGC-TR	0402	
156	3 D11, D13, D15	RED_LED	LED RED CLEAR 0402 SMD	LUMEX OPTO	SML-LX0402SIC-TR	0402	
157	1 U13	XPR3821	IC, FPGA XPR3821 FBGA-896	ALTERA	XPR3821	FBGA-896	
158	2 U16,U31	MAX3232	IC, RS-232 Line Driver/Receiver MAX3232 SOIC16-PW_TI	TI	MAX3232CPWR	SOIC16-PW_TI	
159	1 U17	MC34063A	IC, SW ADJ INV Voltage Reg MC34063A SOIC8	TI	MC34063ADR	SOIC8	
160	1 U18	TP551200	IC, Voltage Reg DDR3 TP551200 SON10	TI	TP551200DRCR	SON10	
161	1 U19	6MM PUSH BUTTON SWITCH	SWITCH 6MM PUSH BUTTON SWITCH 12V SW4-TL1105_ESWITCH	E-SWITCH	TL1105F100Q	SW4-TL1105_ESWITCH	
162	1 U22	74AHC1G125	IC, Non-Inverting Buffer, Tri-State 74AHC1G125 SOT23-DBV_TI	TI	SN74AHC1G125DBVR	SOT23-DBV_TI	
163	1 U23	TP574701	IC, LDO ADJ Voltage Reg TP574701 0.5 A SON10	TI	TP574701DRCR	SON10	
164	1 U24	TP574301	IC, LDO ADJ Voltage Reg TP574301 1.5 A 20VQFN	TI	TP574301RGWT	20VQFN	

165	1 U25	TPS3838	IC, Supervisor TPS3838 SOT23-DBV_Tl	TI	TPS3838K33DBVT	SOT23-DBV_Tl
166	1 U27	DSC1101	IC, Oscillator DSC1101 6-DESCERA	DISCERA	DSC1101C15-020.0000T	6-DESCERA
167	1 U28	CDCLVC1102	IC, Fanout Buffer CDCLVC1102 TSSOP-8	TI	CDCLVC1102PW	TSSOP-8
168	1 U30	74LVC1G06	IC, Inverter 74LVC1G06 SOIC5-DBV_Tl	TI	SN74LVC1G06DBVR	SOIC5-DBV_Tl
169	2 U32,U33	DLPC4422	IC, ASIC DLPC4422 BGA552-DLPC4422_Tl	TI	DLPC4422	BGA552-DLPC4422_Tl
170	2 U34,U35	Parallel NOR 128 Mb	IC, Flash Parallel NOR 128 Mb TSOP_56_48_DUAL_SKT	Micron	M29DW128G70NF6E	TSOP_56_48_DUAL_SKT
171	1 U38	TPS54331	IC, SW Regulator TPS54331 SOIC8-D_Tl	TI	TPS54331D	SOIC8-D_Tl
172	3 U39,U40,U508	74LVC827A	IC, 10 Ch Buffer 74LVC827A SOIC24-PW_Tl	TI	SN74LVC827APWR	SOIC24-PW_Tl
173	1 U41	REF02	IC, VREF 5V REF02 SOIC8	TI	REF02AU/2K5	SOIC8
174	1 U42	TCA0372	IC, OpAmp TCA0372 16-SOIC	ON Semiconductor	TCA0372DWR2G	16-SOIC
175	1 U43	TLC7524	IC, DAC 8-bit TLC7524 TSSOP16	TI	TLC7524PW	TSSOP16
176	1 U500	AT24C32E	IC, EEPROM, Serial AT24C32E 32K TSSOP_8	ATMEL	AT24C32E-SSHM-8	TSSOP_8
177	1 U501	TPS54620	IC, SW ADJ Voltage Reg TPS54620 6 A 14-QFN	TI	TPS54620RHLR	14-QFN
178	1 U502	TS3A5018D	IC, Quad Switch TS3A5018D SOIC-16	TI	TS3A5018DR	SOIC-16
179	1 U503	Serial-SPI 128 Mb	IC, Flash Serial-SPI 128 Mb SO8W	TI	N25Q128A13ESE40E	SO8W
180	0	135 MHz	OSC 135 MHz 50 PPM 5x7_6pad	ECUPITEK	EQRF13B2H-135.000M	5x7_6pad
181	1 U505	CB3LV-3C-100M0000	OSC, 100 MHz CB3LV-3C-100M0000 50 PPM 5x7mm	CTS-FREQUENCY CONTROLS	CB3LV-3C-100M0000	5x7mm
182	1 U506	75.000 MHz	OSC, 3.3 V 75.000 MHz 25 PPM 5x7mm	SITIME	SIT1602AI-82-33E-75.0000000X	5x7mm
183	1 U507	SN65220	IC, USB Port Transient Suppressor SN65220 SOIC6-DBV_Tl	TI	SN65220DBVT	SOIC6-DBV_Tl
184	2 U511,U512	SN74LVC2G125	IC, DUAL BUFFER SN74LVC2G125 8US8	TI	SN74LVC2G125DCUR	8US8
185	1 U513	74AUP1G79	IC, Non-inverting Flip-Flop 74AUP1G79 SOT23-5	TI	SN74AUP1G79DBVR	SOT23-5
186	2 VR1,VR2	20K	IC, Potentiometer 20K 20% 1/4W POT-3314G	BOURNS	3314G-1-203E	POT-3314G
187	2 C799,C801	1800pF	Capacitor 1800pF 10% 50V X7R CAP_0603	AVX	06035C182KAT2A	0603

U504

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