

Final
Doc = am437x_starterkit_evm_3k0009.dsn
RevCode = 1.2A
Title = AM437x Starter Kit EVM

Item Number	Quantity	Part Reference	Value	DescriptiveText	Mfr	MfrNum	TlIntPartNumber	Vendor	Version	PCB Footprint
1	1	A1	NHD-4.3-480272EF-ATXL#-CTP	LCD TFT 480x272 RGB with Cap Touch Screen	NewHaven Display	NHD-4.3-480272EF-ATXL#-CTP	4P9005	NewHaven Display		DNP
2	1	A2	OV2659_Module	Camera Module 2Mp OV2659 CMOS Fixed Focus	DarlingIndustrial	DC-OVBD420AH	4P9008	DarlingIndustrial		DNP
3	2	C1 C2	24pF	Capacitor 24pF 50V 5% 0402	TDK	C1005C0G1H240J	1C0128	Digikey		SM-7351-CAP-0402
4	11	C263 C468	1uF	Capacitor 1uF 10V Ceramic 10% 0402	AVX	0402ZD105KAT2A	1C0084	Digikey		SM-7351-CAP-0402
		C5 C9 C11 C12 C13 C14 C15 C17 C18 C20 C22 C23 C24 C26 C27 C29 C30 C31 C32 C33 C34 C35 C36 C37 C38 C39 C40 C42 C44 C45 C47 C48 C50 C51 C52 C53 C54 C55 C56 C61 C62 C64 C65 C66 C67 C68 C69 C70 C71 C100 C101 C102 C103 C104 C105 C106 C107 C108 C112 C113 C114 C115 C116 C121 C122 C123 C124 C136 C137 C138 C139 C140 C143 C144 C145 C146 C147 C148 C149 C150 C151 C156 C171 C177 C190 C196 C197 C198 C199 C228 C229 C231 C232 C235 C236 C245 C254 C255 C256 C270 C271 C277 C278 C279 C280 C281 C282 C284 C285 C286 C287 C288 C290 C291 C292 C294 C314 C315 C318 C319 C320 C321 C322 C323 C324 C325 C326 C327 C414 C415 C417 C418 C419 C420 C421 C422 C424								
5	143	C431 C458 C459 C462 C463 C467	0.01uF	Capacitor 0.01uF 16V 10% 0402	Kemet	C0402C103K4RACTU	1C0012	Digikey		SM-7351-CAP-0402
6	4	C7 C8 C240 C261	15pF	Capacitor Ceramic 15pF 50V 10% 0402	Kemet	C0402C150J5GACTU	1C0087	Digikey		SM-7351-CAP-0402
		C10 C16 C19 C21 C25 C28 C41 C43 C46 C49 C63 C74 C85 C87 C89 C90 C91 C93 C161 C163 C164 C167 C169 C176 C181 C183 C185 C186 C188 C195 C227 C230								
7	39	C304 C306 C308 C310 C312 C317 C413	10uF	Capacitor 10uF 16V 10% Ceramic 0805	AVX	0805YD106KAT2A	1C0085	Digikey		SM-7351-CAP-0805
		C72 C73 C94 C99 C128 C130 C131 C153 C154 C155 C157 C160 C162 C165 C168 C170 C180 C182 C184 C187 C189 C272 C297 C305 C307 C309 C311 C313 C400								
8	34	C401 C402 C469 C470 C472	0.1uF	Capacitor 0.1uF 16V 10% 0402 X7R	Kemet	C0402C104K4RACT	1C0089	Digikey		SM-7351-CAP-0402
9	1	C75	1uF	Capacitor 1uF 50V 10% Ceramic 0603	Taiyo Yuden	UMK107BJ105KA-T	1C0114	Digikey		SM-7351-CAP-0603
10	2	C76 C77	100uF	Capacitor 100uF 16V Polymer 20% smd can	United Chemicon	APXE160ARA101MH70G	1C0096	Digikey		SM-7351-CAP-smdcan
		C78 C79 C81 C84 C86 C88 C92 C95								
11	15	C158 C216 C244 C253 C283 C289 C293	4.7uF	Capacitor Ceramic 4.7uF 16V 10% 0603	Taiyo Yuden	EMK107ABJ475KA-T	1C0103	Digikey		SM-7351-CAP-0603
12	2	C80 C83	22uF	Capacitor 22uF 6.3V 20% Ceramic 0603	TDK	C1608X5R0J226M080AC	1C0140	Digikey		SM-7351-CAP-0603
13	1	C96	2.2uF	Capacitor 2.2uF Ceramic, 6.3V, X5R, 20%	Taiyo Yuden	JMK105BJ225MV-F	1C0091	Digikey		SM-7351-CAP-0402
14	5	C97 C98 C125 C152 C406	22uF	Capacitor 22uF 16V Ceramic 10% 0805	TDK	C2012X5R1C226K125AC	1C0094	Digikey		SM-7351-CAP-0805
15	6	C159 C166 C178 C179 C302 C303	47uF	Capacitor 47uF 16V Ceramic X5R 1206	TDK	C3216X5R1C476M	1C0101	Digikey		SM-7351-CAP-1206
16	4	C172 C173 C191 C192	22pF	Capacitor 22pF 50V 10% 0402	Yageo	CC0402JRNPO9BN220	1C0020	Digikey		SM-7351-CAP-0402
		C174 C175 C193 C194 C298 C299 C300								
17	8	C301	0.1uF	Capacitor 0.1uF 50V 10% 0402 X7R	TDK	C1005X7R1H104K	1C0105	Digikey		SM-7351-CAP-0402
18	1	C221	4.7uF	Capacitor 4.7uF 50V 20% Ceramic smd	TDK	C2012X5R1H475M	1C0108	Digikey		SM-7351-CAP-0805
19	2	C241 C242	2.2uF	Capacitor 2.2uF 6.3V Ceramic 10% 0603	Kemet	C0603C225K9PACTU	1C0088	Digikey		SM-7351-CAP-0603
20	2	C243 C252	150uF	Capacitor 150uF 10V 10% Tantalum Low ESR	Kemet	B45197A2157K409	1C0110	Digikey		SM-7351-CAP-2917
21	3	C262 C316 C432	2.2uF	Capacitor 2.2uF 16V 10% 0805	Kemet	C0805C225K4RACTU	1C0097	Digikey		SM-7351-CAP-0805
22	0	C264 C265 C267 C268	DNI	DNI	DNI	DNI	DNI	DNI		DNI
23	2	C295 C296	18pF	Capacitor Ceramic 18pF 50V 10% 0402	TDK	CGA2B2C0G1H180J	1C0098	Mouser		SM-7351-CAP-0402
24	1	C409	220uF	Capacitor 220uF 16V 10% Tantalum	Kemet	T491D227K016ZT	1C0144	CapacitorsPlus		smd7343-122m
25	2	C416 C423	10uF	Capacitor 10uF 6.3V 20% Ceramic X5R 0603	Murata	GRM188R60J106ME47D	1C0124	Digikey		SM-7351-CAP-0603
26	1	D1	B520C-13-F	Diode Power Rectifier 5A Schottky	Diodes Inc	B520C-13-F	1E0012	Digikey		B520C-13-F

27	1 D2	SMCJ15CA	Voltage Suppressor 15.0V	LittleFuse	SMCJ15CA	1E0011	Digikey	SMCJ15CA
28	4 D3 D9 D11 D12	Green LED	LED Green SMD 20mA 3.2V 0805	Dialight	598-8170-107F	1F0008	Digikey	sm_led_0805
29	2 D5 D6	MMSD103T1	Diode 200mA 250V 1.25V Forward Drop	On Semiconductor	MMSD103T1G	1E0013	Digikey	sod-123
30	2 D7 D8	Blue LED	LED Blue SMD 20mA 3.2V 0805	Dialight	598-8191-107F	1F0013	Digikey	sm_led_0805
31	1 D10	Red LED	LED Red SMD 20mA 2.2V 0805	Dialight	598-8110-107F	1F0009	Digikey	sm_led_0805
32	1 F1	Fuse 4A	Fuse Block with 4A Fuse	Littelfuse	015A004.DRT	1P0004	Digikey	smdfuseblk
33	8 FB1 FB2 FB3 FB4 FB5 FB6 FB7 FB8 FB9 FB10 FB12 FB13 FB17 FB18 FB19 FB20 FB21 FB22 FB23 FB24 FB25 FB26	600mAFB10ohm	Ferrite Bead 600mA 10ohm	TDK	HF70ACB201209	1L0028	Digikey	HF70ACB201209
34	15 FB27	150OHM800mA	Ferrite Bead 150 Ohm 800mA	Laird-Signal Integrity Products	LI0805H151R-10	1L0010	Digikey	sm-7351-ind-0805
35	3 FB14 FB15 FB16	220OHM2A	Ferrite Bead 220 Ohm 2A	TDK	MP21608S221A	1L0034	Digikey	sm-7351-ind-0603
36	1 J1	54132-4097	Connector 0.5mm pitch, 40 Pin, 0.5A/50V, FFC	Molex	54132-4097	2C0101	Molex	CNFFPC1X40-0P5MM
37	1 J2	0522070685	Connector 1.00mm Pitch FFC, RA, Top cntct,SMT 6pin	Molex	0522710685	2C0107	Molex	CNS2271-0679
38	6 J3 J7 J16 J30 J31 J32	HEADER 2	Single Line Header 2pin Tin 0.1in pitch	OnShoreTechnology	PH1-230/120-021	2H0000	Digikey	header_2x1
39	1 J4	Power Jack RAPC712	Jack Power Right Angle 2conductor 2.5mm center	Switchcraft	RAPC712X	2J0008	Digikey	RAPC712
40	1 J5	SCHA5B0200	Connector compact low-profile Push Type Micro SD	ALPS	SCHA5B0200	2C0102	Mouser	SD-MICRO-SCHA5B0300
41	2 J6 J8	RJ-45 Gigabit	Connector RJ-45 Jack w/mag and LED Gigabit	Link	LPJG16314A4NL	2J0019	Link	cnrj45-1x1wled-598m
42	0 J9	DNI	DNI	DNI	DNI	DNI	DNI	DNI
43	0 J10	DNI	DNI	DNI	DNI	DNI	DNI	DNI
44	1 J15	FH26-25S-0.3SHW(05)	Connector 0.3mm pitch 25pin FFC	Hirose	FH26-25S-0.3SHW(05)	2C0132	Digikey	CNFH26-25S
45	2 J17 J25	USB_MicroAB	Connector Micro USB AB RA	Hirose	ZX62-AB-5PA(11)	2C0088	Digikey	ZX62-AB-5PA
46	1 J19	USB A	CONN USB RECEPT TYPE A PCB	FCI	87520-0010BLF	2C0017	Digikey	usb_std_a_th
47	1 J20	MEC6_100pin	Connector MEC6 100pin right angle	Samtec	MEC6-150-02-S-D-RA1	2C0083	Samtec	MEC6-150-02-S-D-RA1
48	2 J26 J27	3.5mm SJ3524	Connector Audio 3.5mm 2signal with switch	CUI	SJ-3524-SMT-1	2C0099	Digikey	sj3524smt4pin
49	2 L1 L2	10uH	Inductor 10uH 20% smt 110mA	TDK	MLZ2012N100L	1L0055	Digikey	ind-mlz2012-57m
50	4 L3 L4 L5 L6	1.5uH	Inductor 1.5uH 20% smt 2.8A	TDK	SPM3012T-1R5M	1L0054	Digikey	IND_SPM3012T
51	1 L7	4.7uH	Inductor 4.7uH 30% smt 3.1A	TDK	SLF705ST-4R7N3R1-3PF	1L0033	Digikey	smd_slf705St
52	1 L8	4.7uH	Inductor 4.7uH 30% smt 1.7A	TDK	VLCF5020T-4R7N1R7-1	1L0030	Digikey	vlcf5020t
53	2 L9 L11	ACM2012	Common Mode Filter for USB/HDMI	TDK	ACM2012H-900-2P	1M0003	Arrow	ACM2012H
54	1 L12	DLW5BTN5015SQ2L	Common Mode Filter for power line	Murata	DLW5BTN5015SQ2L	1M0004	Arrow	DLW5BTN5015SQ2
55	4 M1 M2 M3 M4	Hex Nut 4-40	Hex Nut #4-40 steel	Keystone	9600	2M0045	Digikey	DNP
56	4 M5 M6 M7 M8	Screw4-40_5/8in	Screw #4-40 5/8in long zinc phillips	BF Fastener	PMS 440 0063 PH	2M0044	Digikey	DNP
57	1 PCB1	AM437x Starter Kit Bare PCB	AM437x Starter Kit Bare PCB	TI	3K0009	3K0009	TI	DNP
58	2 Q2 Q3	FDT434P	MOSFET Pchan -20V 6A	Fairchild	FDT434P	1Q0024	Digikey	SOT223-4
59	6 Q4 Q5 Q6 Q7 Q8 Q9	BSS138	MOSFET Nchan 50V 200mA	Diodes Inc.	BSS138-7-F	1Q0019	Digikey	SOT23-3
R1 R2 R9 R18 R49 R50 R52 R55 R57 R68 R79 R128 R129 R130 R131 R160 R162 R164 R168 R170 R172 R200 R202 R206 R208 R210 R214 R233 R238 R241 R248 R265 R271 R274 R275 R276 R277 R278 R279 R326 R331 R351 R352 R353 R357 R358 R359 R360 R361 R362 R363 R364 R366 R367 R369 R377 R383 R388								
60	63 R390 R391 R398 R426 R743	10K	Resistor 10Kohm 1/16W 5% 0402	Rohm	MCR01MZP1J03	1R0168	Digikey	SM-7351-RES-0402
R3 R5 R6 R7 R8 R10 R13 R14 R15 R16 R17 R45 R46 R51 R54 R56 R58 R59 R60 R61 R65 R69 R80 R81 R82 R83 R84 R85 R97 R98 R99 R100 R101 R102 R103 R104 R105 R106 R107 R108 R109 R110 R111 R112 R113 R114 R115 R116 R117 R118 R119 R120 R121 R132 R133 R134 R135 R136 R137 R139 R156 R157 R163 R194 R195 R198 R216 R217 R218 R219 R222 R223 R224 R226 R227 R228 R229 R230 R231 R232 R237 R239 R240 R244 R253 R257 R259 R269 R272 R280 R281 R282 R283 R284 R285 R286 R287 R288 R289 R290 R291 R292 R293 R297 R301 R304 R305 R316 R318 R319 R320 R328 R329 R370 R375 R380 R384 R386 R393 R394 R395 R396 R400 R401 R402 R622								
61	132 R623 R695 R701 R704 R741 R742	0	Resistor Zero ohm Jumper 0402	Panasonic	ERJ-2GE0R00X	1R0098	Digikey	SM-7351-RES-0402
62	1 R4	1M	Resistor 1Mohm 1/16W 1% 0402	Stackpole Electronics	RMCF0402FT1M00	1R0182	Digikey	SM-7351-RES-0402

63	3 R11 R12 R330	100	Resistor 100ohm 1/16W 5% 0402	Stackpole Electronics	RMCF0402JT100R	1R0236	Digikey	SM-7351-RES-0402
64	7 R20 R21 R22 R53 R67 R225 R266	0	Resistor Zero ohm Jumper 0603	Panasonic	ERJ-3GEY0R00V	1R0096	Digikey	SM-7351-RES-0603
65	2 R23 R24	0.1ohm1% Sense	Resistor 0.1ohm 0.33W Sense 1% 0805	Susumu	RL1220S-R10-F	1R0264	Digikey	SM_RES_0805_KELV
66	3 R38 R526 R527	0.05ohm1% Sense	Resistor 0.05ohm 0.5W Sense 1% 1206	Ohmite	LVK12R050F0R	1R0189	Digikey	SM_RES_LVK12
67	5 R48 R312 R313 R314 R315 R62 R64 R220 R221 R306 R307 R309	150	Resistor 150ohm 1/16W 5% 0402	Stackpole Electronics	RMCF0402JT150R	1R0179	Digikey	SM-7351-RES-0402
68	12 R310 R389 R702 R703 R705	2.2K	Resistor 2.2Kohm 1/16W 5% 0402	VishayDale	CRCW04022K20JNED	1R0169	Digikey	sm-7351-res-0402
69	1 R63	33	Resistor 33ohm 1/16W 5% 0402	Panasonic	ERJ-2GEJ330X	1R0008	Digikey	SM-7351-RES-0402
70	3 R70 R159 R197	12.1K, 1%	Resistor 12.1K OHM 1/16W 1% 0402 SMD	Yageo	RC0402FR-0712K1L	1R0247	Digikey	SM-7351-RES-0402
71	1 R72 R76 R127 R143 R181 R317 R321 R322	1.4K	Resistor 1.4Kohm 1/16W 1% 0402	Stackpole Electronics	RMCF0402FT1K40	1R0304	Digikey	SM-7351-RES-0402
72	9 R323 R556	100K	Resistor 100Kohm 1/16W 1% 0402	Stackpole Electronics	RMCF0402FT100K	1R0181	Digikey	SM-7351-RES-0402
73	1 R77	1.62M	Resistor 1.62Mohm 1/16W 1% 0402	Vishay/Dale	CRCW04021M62FKED	1R0210	Digikey	SM-7351-RES-0402
74	1 R78	180K	Resistor 180Kohm 1/16W 1% 0402	Stackpole Electronics	RMCF0402JT180K	1R0209	Digikey	SM-7351-RES-0402
75	2 R94 R126	240	Resistor 240 ohm 1/16W 1% 0402	Stackpole Electronics	RMCF0402FT240R	1R0219	Digikey	sm-7351-res-0402
76	1 R125	49.9	Resistor 49.9ohm 1/16W 1% 0402	Panasonic	ERA-2AEB49R9X	1R0171	Digikey	SM-7351-RES-0402
77	1 R138	470K	Resistor 470Kohm 1/16W 1% 0402	Stackpole Electronics	RMCF0402FT470K	1R0190	Digikey	SM-7351-RES-0402
78	5 R141 R142 R179 R180 R387 R144 R145 R146 R147 R148 R149 R150 R151 R152 R153 R154 R155 R182 R183 R184 R185 R186 R187 R188 R189 R190	220	Resistor 220ohm 1/10W 1% 0402	Panasonic	ERJ-2RKF2200X	1R0176	Digikey	SM-7351-RES-0402
79	24 R191 R192 R193 R158 R196 R242 R243 R325 R327 R382	22	Resistor 22 ohm 1/16W 1% 0402	ROHM	MCR01MZPF22R0	1R0175	Digikey	SM-7351-RES-0402
80	8 R385	4.7K	Resistor 4.7Kohm 1/16W 5% 0402	Stackpole Electronics	RMCF0402JT4K70	1R0183	Digikey	SM-7351-RES-0402
81	1 R161	1.5K	Resistor 1.5Kohm 1/16W 5% 0402	Stackpole Electronics	RMCF0402JT1K50C	1R0188	Digikey	SM-7351-RES-0402
82	7 R167 R175 R177 R205 R213 R552 R553	1K	Resistor 1Kohm 1/16W 5% 0402	Panasonic	ERJ-2GEJ102X	1R0027	Digikey	SM-7351-RES-0402
83	1 R234	10	Resistor 10ohm 1/16W 5% 0402	Stackpole Electronics	RMCF0402JT10R0	1R0251	Digikey	SM-7351-RES-0402
84	1 R235	10, 1%	Resistor 10ohm 1/10W 1% 0603	Panasonic	ERJ-3EKF10R0V	1R0259	Digikey	sm-7351-res-0603
85	1 R236	44.2K, 1%	Resistor 44.2Kohm 1/10W 1% 0603	Panasonic-ECG	ERJ3EKF4422V	1R0255	Digikey	sm-7351-res-0603
86	1 R255	39K	Resistor 39Kohm 1/16W 5% 0402	Stackpole	RMCF0402JT39K0	1R0279	Digikey	SM-7351-RES-0402
87	2 R256 R303	30.1K	Resistor 30.1Kohm 1/16W 1% 0402	Vishay Dale	CRCW040230K1FKED	1R0173	Digikey	SM-7351-RES-0402
88	1 R302	57.6K	Resistor 57.6Kohm 1/10W 1% 0402	Panasonic	ERJ-2RKF5762X	1R0177	Digikey	SM-7351-RES-0402
89	0 R324	DNI	DNI	DNI	DNI	DNI	DNI	DNI
90	5 R335 R336 R337 R346 R397	56K	Resistor 56Kohm 1/16W 5% 0402	Vishay Dale	CRCW040256K0FKED	1R0195	Digikey	SM-7351-RES-0402
91	1 R376	12K, 1%	Resistor 12Kohm 1/16W 1% 0402	Stackpole Electronics	RMCF0402JT12K0	1R0245	Digikey	SM-7351-RES-0402
92	0 R738 R739 R740 R744 R745	DNI	DNI	DNI	DNI	DNI	DNI	DNI
93	1 R555	22K	Resistor 22Kohm 1/16W 1% 0402	VishayDale	CRCW040222K0FKED	1R0234	Digikey	SM-7351-RES-0402
94	0 R714	DNI	DNI	DNI	DNI	DNI	DNI	DNI
95	5 SW2 SW6 SW7 SW8 SW9	B3SL	Switch Push Button tactile NO	Omron	B3SL-1022P	2W0018	Digikey	SW_B3SL-1022P
96	1 SW3	SwitchTactileNO	Tactile switch NO wgnnd smd	Omron	B3U-1100P	2W0022	Digikey	SW-B3U-1100P
97	1 SW14	SwitchTactileNOedge	Tactile switch edge mount NO wgnnd smd	Omron	B3U-3100P-B	2W0026	Digikey	SW-B3U-3100P-B
98	5 TP1 TP5 TP6 TP20 TP23	TP1mm	Testpoint SMD 1mm circle pad	N/A	N/A	2H0046	N/A	tp_smd1mmcircle
99	3 TP4 TP7 TP8	TP	Testpoint Miniature Through Hole	Keystone Electronics	5002	2H0026	Digikey	TH_TP_5002
100	1 U1	AM437X_ZDN	Cortex A9 SOC AM437x	TI	AM4378BZDN100	1A0392	TI	AM437X_ZDN
101	3 U2 U13 U15	SN74LVC1G07	Driver Open Drain output	TI	SN74LVC1G07BCK	1A0269	Digikey	SC70-5-43M
102	1 U3	TPS65218	Power Management IC for AM43xx SOC Mult Outputs	TI	TPS65218B1RSLT	1A0359	Digikey	qf6x6-48-39m
103	1 U4	TPS63010	Buck-Boost Converter with 2A Switches	TI	TPS63010YFF	1A0287	Digikey	u_20_dsbga
104	1 U5	MX66L51235FMI	Quad Serial NOR Flash Memory 512Mb 3.3V	Macronix	MX66L51235FMI-10G	1A0389	Macronix	soic_16pin_dw
105	2 U6 U7	MT41K256M16HA	DDR3 SDRAM 4Gb (256Mx16) 1.35V	Micron	MT41K256M16HA-12S	1A0363	Arrow	bga9x14-96
106	6 U8 U44 U45 U47 U48 U49	TPD1E10B06	ESD Protection Device 1Chan +-30kV	TI	TPD1E10B06DPY	1A0397	Digikey	tpd1e10b06-2l
107	2 U9 U19	SN74AVC4T245	Bus Transceiver 4bit Voltage Translator	TI	SN74AVC4T245PW	1A0245	Digikey	U_16_PW
108	1 U10	TPD6E001	ESD Protection Array 6Chan +-15kV	TI	TPD6E001RSE	1A0248	Digikey	U_10_RSE
109	7 U11 U17 U51 U52 U53 U54 U55	SN74AVC2T244	2bit Undirectional Voltage Translator	TI	SN74AVC2T244DQM	1A0388	Digikey	son2x1-8-16m
110	2 U12 U14	KSZ9031RN	Gb Ethernet Transceiver PHY	Micrel	KSZ9031RNX	1A0344	Digikey	qf7x7-48
111	1 U16	LIS331DLH	Accelerometer 3 Axis I2C	ST Microelectronics	LIS331DLH	1A0227	Digikey	LGA16pin_3x3
112	1 U18	TPS61081DRC	Regulator WLED Driver 1.3A	TI	TPS61081DRC	1A0270	Digikey	u_10_drc
113	1 U20	SN74AVC1T45	Dual Voltage Translator	TI	SN74AVC1T45DCK	1A0144	Digikey	smdsc70-6
114	1 U24	TXS0102	Bidirectional 2bit Voltage Translator Open Drain	TI	TXS0102DCT	1A0260	Digikey	dst8
115	1 U25	TPS79301	LDO Regulator 200mA High PSRR	TI	TPS79301DBV	1A0230	Digikey	U_6_DBV
116	3 U26 U29 U38	TPD4S012	ESD 4channel USB Interface	TI	TPD4S012DRY	1A0233	Digikey	U_6_DRY
117	1 U27	SN74LVC1G04	Inverter	TI	SN74LVC1G04DCK	1A0288	Digikey	SC70-5-43M

118	2 U28 U34	TPS2051BD	Power Distribution Switch Current Limited 500mA	TI	TPS2051BD	1A0286	Digikey	U_8_D
119	1 U32	TPS79501	Power Regulator LDO adjustable 500mA	TI	TPS79501DCQ	1A0161	Avneet	sot223_6pin
120	1 U33	CAT24C256W	EEPROM 256Kb I2C SOIC8	On Semiconductor	CAT24C256WI-G	1A0225	Digikey	SOIC_8
121	1 U36	SN74LVC1G00DCK	Single Two input positive NAND	TI	SN74LVC1G00DCK	1A0300	Digikey	U_5_DCK
122	1 U37	SN74LVC2G07	Dual Buffer with open drain outputs	TI	SN74LVC2G07DCK	1A0232	Digikey	U_6_DCK
123	1 U39	FT2232HQ	USBHS Dual UART/FIFO	FTDI	FT2232HQ-REEL	1A0398	Digikey	QFN9X9-64-39M
124	1 U40	93LC56B	E2PROM 2Kbit 3Mhz Memory	Microchip	93LC56B-I/SN	1A0293	Digikey	soic8
125	1 U41	TLV320AIC3106	Low power stereo audio codec	TI	TLV320AIC3106IRG	1A0240	Digikey	vqfn48_rgz
126	1 U46	TPS79333	LDO Regulator 3.3V 200mA High PSRR	TI	TPS79333DBV	1A0295	Digikey	U_5_DBV
127	1 Y1	24MHz	Crystal 24MHz	Suntsu	SCM188-24.000MHz TR	1Y0044	Suntsu Inc	XTAL2X3-30M
128	1 Y2	32.768KHz MC-306	Crystal 32.768KHz	Epson	MC-30632.7680k-A	1Y0029	Digikey	MC-306
129	2 Y3 Y4	25MHz	Crystal 25MHz	Abracon	ABM3-25.000MHz-B2-T	1Y0030	Digikey	SM_OSC_ABM3
130	1 Y5	12MHz	Crystal 12MHz 30ppm load cap 18pF	Abracon	ABM3-12.000MHz-D2Y-T	1Y0036	Digikey	SM_OSC_ABM3

IMPORTANT NOTICE FOR TI REFERENCE DESIGNS

Texas Instruments Incorporated ("TI") reference designs are solely intended to assist designers ("Buyers") who are developing systems that incorporate TI semiconductor products (also referred to herein as "components"). Buyer understands and agrees that Buyer remains responsible for using its independent analysis, evaluation and judgment in designing Buyer's systems and products.

TI reference designs have been created using standard laboratory conditions and engineering practices. **TI has not conducted any testing other than that specifically described in the published documentation for a particular reference design.** TI may make corrections, enhancements, improvements and other changes to its reference designs.

Buyers are authorized to use TI reference designs with the TI component(s) identified in each particular reference design and to modify the reference design in the development of their end products. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER TI INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY THIRD PARTY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT, IS GRANTED HEREIN, including but not limited to any patent right, copyright, mask work right, or other intellectual property right relating to any combination, machine, or process in which TI components or services are used. Information published by TI regarding third-party products or services does not constitute a license to use such products or services, or a warranty or endorsement thereof. Use of such information may require a license from a third party under the patents or other intellectual property of the third party, or a license from TI under the patents or other intellectual property of TI.

TI REFERENCE DESIGNS ARE PROVIDED "AS IS". TI MAKES NO WARRANTIES OR REPRESENTATIONS WITH REGARD TO THE REFERENCE DESIGNS OR USE OF THE REFERENCE DESIGNS, EXPRESS, IMPLIED OR STATUTORY, INCLUDING ACCURACY OR COMPLETENESS. TI DISCLAIMS ANY WARRANTY OF TITLE AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT, QUIET POSSESSION, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS WITH REGARD TO TI REFERENCE DESIGNS OR USE THEREOF. TI SHALL NOT BE LIABLE FOR AND SHALL NOT DEFEND OR INDEMNIFY BUYERS AGAINST ANY THIRD PARTY INFRINGEMENT CLAIM THAT RELATES TO OR IS BASED ON A COMBINATION OF COMPONENTS PROVIDED IN A TI REFERENCE DESIGN. IN NO EVENT SHALL TI BE LIABLE FOR ANY ACTUAL, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR INDIRECT DAMAGES, HOWEVER CAUSED, ON ANY THEORY OF LIABILITY AND WHETHER OR NOT TI HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, ARISING IN ANY WAY OUT OF TI REFERENCE DESIGNS OR BUYER'S USE OF TI REFERENCE DESIGNS.

TI reserves the right to make corrections, enhancements, improvements and other changes to its semiconductor products and services per JESD46, latest issue, and to discontinue any product or service per JESD48, latest issue. Buyers should obtain the latest relevant information before placing orders and should verify that such information is current and complete. All semiconductor products are sold subject to TI's terms and conditions of sale supplied at the time of order acknowledgment.

TI warrants performance of its components to the specifications applicable at the time of sale, in accordance with the warranty in TI's terms and conditions of sale of semiconductor products. Testing and other quality control techniques for TI components are used to the extent TI deems necessary to support this warranty. Except where mandated by applicable law, testing of all parameters of each component is not necessarily performed.

TI assumes no liability for applications assistance or the design of Buyers' products. Buyers are responsible for their products and applications using TI components. To minimize the risks associated with Buyers' products and applications, Buyers should provide adequate design and operating safeguards.

Reproduction of significant portions of TI information in TI data books, data sheets or reference designs is permissible only if reproduction is without alteration and is accompanied by all associated warranties, conditions, limitations, and notices. TI is not responsible or liable for such altered documentation. Information of third parties may be subject to additional restrictions.

Buyer acknowledges and agrees that it is solely responsible for compliance with all legal, regulatory and safety-related requirements concerning its products, and any use of TI components in its applications, notwithstanding any applications-related information or support that may be provided by TI. Buyer represents and agrees that it has all the necessary expertise to create and implement safeguards that anticipate dangerous failures, monitor failures and their consequences, lessen the likelihood of dangerous failures and take appropriate remedial actions. Buyer will fully indemnify TI and its representatives against any damages arising out of the use of any TI components in Buyer's safety-critical applications.

In some cases, TI components may be promoted specifically to facilitate safety-related applications. With such components, TI's goal is to help enable customers to design and create their own end-product solutions that meet applicable functional safety standards and requirements. Nonetheless, such components are subject to these terms.

No TI components are authorized for use in FDA Class III (or similar life-critical medical equipment) unless authorized officers of the parties have executed an agreement specifically governing such use.

Only those TI components that TI has specifically designated as military grade or "enhanced plastic" are designed and intended for use in military/aerospace applications or environments. Buyer acknowledges and agrees that any military or aerospace use of TI components that have **not** been so designated is solely at Buyer's risk, and Buyer is solely responsible for compliance with all legal and regulatory requirements in connection with such use.

TI has specifically designated certain components as meeting ISO/TS16949 requirements, mainly for automotive use. In any case of use of non-designated products, TI will not be responsible for any failure to meet ISO/TS16949.