

Bill of Materials

TI DESIGNS

TIDA-00570

ITEM	QTY	REFERENCE DESIGNATOR	VALUE	DESCRIPTION	SIZE	MANUFACTURER	MANUFACTURER PART NUMBER
1	47	C1,C2,C3,C4,C6,C7,C8,C16,C18,C20,C22,C25,C28,C32,C33,C34,C35,C36,C37,C38,C39,C40,C41,C43,C44,C45,C52,C53,C54,C55,C78,C79,C80,C81,C82,C83,C84,C85,C86,C87,C91,C92,C109,C113,C114,C119,C120	0.1uF	CapacitorCER 0.1UF 50V 10% X7R 0402 TDK	402	TDK	CGA2B3X7R1H104K050BB
2	21	C5,C10,C11,C12,C13,C14,C15,C17,C19,C23,C42,C47,C48,C49,C50,C57,C58,C59,C60,C61,C64	47uF	CapacitorTANT 47UF 10V 20% 1411 70mOhm	1411	Kemet	T520B476M010ATE070
3	4	C9,C46,C56,C108	1.0uF	CapacitorCER 1UF 50V 10% X5R 0603	603	Taiyo Yuden	UMK107BJ105KA-T
4	6	C21,C24,C26,C27,C29,C51	10nF	CapacitorCER 10nF 25V 10% X7R 0402	402	Murata	GRM155R71E103KA01D
5	2	C30,C62	33uF	CapacitorTANT 33UF 10V 20% 1411 40mOhm	1411	Kemet	T520B336M010ATE040
6	2	C31,C63	330uF	CapacitorTANT 330UF 6.3V 20% 2917 25mOhm	1411	Kemet	T520D337M006ATE025
7	13	C65,C66,C67,C68,C69,C70,C71,C72,C73,C74,C75,C76,C77	30pF	CapacitorCER 30PF 50V 5% NPO 0603	603	Samsung	CL10C300JB8NNNC
8	3	C88,C89,C90	100uF	CapacitorTANT 100UF 25V 10% 2917	2917	Kemet	T491X107K025AT
9	4	C93,C94,C96,C110	100uF	CapacitorCER 100UF 16V 20% X5R 1210	1210	Taiyo Yuden	EMK325ABJ107MM-T
10	8	C95,C97,C98,C99,C111,C112,C121,C122	10uF	CapacitorCER 10UF 25V 10% X5R 0805	805	Murata	GRM21BR61E106KA73L
11	3	C100,C101,C115	4.7uF	CapacitorCER 4.7UF 50V 10% X5R 0805	805	Samsung	CL21A475KBQNNNE
12	1	C102	1200pF	CapacitorCER 1200PF 50V 10% X7R 0402	402	Murata	GRM155R71H122KA01D
13	3	C103,C106,C117	27pF	CapacitorCER 27PF 50V 5% NPO 0402	402	Murata	GRM1555C1H270JA01D
14	5	C104,C105,C107,C116,C118	0.015uF	CapacitorCER 0.015UF 50V 10% X7R 0402	402	Murata	GRM155R71H153KA12D
15	10	D1,D2,D3,D4,D5,D6,D7,D8,D9,D10	LG M67K-G1J2-24-Z	LED GREEN CLEAR 0603LED GREEN CLEAR 1.8Vf	LG_M67K	OSRAM	LG M67K-G1J2-24-Z
16	2	D11,D12	LO M67K-K2M1-24-Z	LED MINI TOPLED ORANGE 606NM SMDLED ORANGE CLEAR 1.8Vf	2pin SMD	OSRAM	LO M67K-K2M1-24-Z
17	1	D13	SMCJ15CA	TVS DIODE 15VWVM 24.4VC SMCTVS DIODE 15VWVM 24.4VC SMC	DO-214AB	Littlefuse	SMCJ15CA
18	8	FB1,FB2,FB3,FB4,FB5,FB6,FB7,FB8	FBMH1608HM101-T	FERRITE BEAD 100 OHM 0603FERRITE BEAD 100 OHM 2A 0603	603	Taiyo Yuden	FBMH1608HM101-T
19	1	FB9	HI1206T500R-10	FERRITE 6A 50 OHM 1206 SMDFERRITE 6A 50 OHM 1206 SMD	1206	Laird SI Products	HI1206T500R-10
20	1	F1	2410SFV7.00FM/125-2	FUSE 10A 125V FAST 2410FUSE 7A 125V FAST 2410	SMD	TE	2410SFV7.00FM/125-2
21	10	GP1,GP2,GP3,GP4,GP5,GP6,GP7,GP8,GP9,GP10	10mils_Drill_Hole_Plated	Plated Drill HoleEM,TERM,GOUNDPPOINT		NOT A PART	
22	1	J1	87832-1420	CONN HEADER 14POS 2MM VERT SMDCONN HEADER 14POS 2mm	Molex_87832-1420	Molex	87832-1420

23	1	J2	702461004	CONN HEADER 10POS 2..54MM VER CONN HEADER SHROUDED 10P 2.54MM	10POS 2..54MM	Molex	
24	1	J3	USB Type B Rcpt	USB RCPT B-TYPE R/AUSB RCPT B-TYPE R/A	4pinthruhole	FCI	61729-1010BLF
25	2	J4,J5	Flex_LGA_Pattern	Mustang Flex Assembly cLGA 150 PositionsDMD_FLEX_CONNECTOR		InterCon Systems	8394-00x
26	8	J6,J9,J10,J11,J12,J15,J16,J19	61300211121	HEADER, UNSHROUDED, 2POS, 2.54mmCONN HEADER 2P 0.1" THRUHOLE #2	2POS .1" SPACING	Wurth	61300211121
27	1	J7	RAPC712X	CONN POWERJACK MINI R/A PCMTCON_PWRJACK3_RAPC712	3pinthruhole	Switchcraft	RAPC712X
28	1	J8	39299062	CONN HEADER 6POS 4.2MM VERT TINPWR CONN HEADER 6POS 4.2MM VERT	6POS 4.2MM	Molex	39299062
29	3	J13,J14,J17	68000-410HLF	CONN HEADER 10POS .100 STR TINCONN HEADER Unshroud 10P 0.1"	10POS .100	FCI	68000-410HLF
30	1	J18	53261-0471	CONN HEADER 4POS 1.25MM RA SMDCONN HEADER 4P 1.25mm RA Molex	4POS 1.25MM SPACING	Molex	53261-0471
31	3	J20,J21,J22	B2B-EH	CONN HEADER EH TOP 2POS 2.5MMMEM,CONN, HEADER EH 2 POS 2.5MM	2 POS 2.5MM	JST	B2B-EH-A(LF)(SN)
32	2	L1,L2	3.3uH	FIXED IND 3.3UH 6A 30 MOHM SMDINDUCTOR 3.3UH 6A Bourns new	2pin SMD	Bourns	SRP7028A-3R3M
33	1	L3	4.7uH	FIXED IND 4.7UH 5.5A 40 MOHM SMDINDUCTOR 4.7UH 5.5A Bourns new	2pin SMD	Bourns	SRP7028A-4R7M
34	4	MT1,MT2,MT3,MT4	Mounting Hole	Mounting HoleEM,TERM,Mounting Hole		NOT A PART	
35	2	OSC1,OSC4	DSC1001CI1-050.0000	OSC MEMS 50.00MHZ LVCMOS SMDOSC MEMS 50MHZ DSC1001CI1	4pin SMD	Micrel	DSC1001CI1-050.0000
36	1	OSC2	DSC2110FI1-A0005	OSC MEMS Low-Jitter I2C/SPI Programmable CMOS OscillatorOSC MEMS I2C prgramable DSC2110	4pin SMD	Micrel	DSC2110FI1-A0005
37	1	OSC3	DSC1001DI1-060.0000	OSC MEMS 60.00MHZ LVCMOS SMDOSC MEMS 60MHZ DSC1001DI1	4pin SMD	Micrel	DSC1001DI1-060.0000
38	5	Q1,Q2,Q3,Q4,Q5	DMN26D0UT-7	MOSFET N-CH 20V 230MA SOT523ANA,MOSFET,N-CH,E,DMN26U,SOT- 23	SOT23	Diodes	DMN26D0UT-7
39	2	R1,R2	0.01	Resistor 0.01 OHM 1% 1W 1206	1206	Samsung	RUK3216FR010CS
40	10	R3,R4,R5,R59,R61,R65,R66,R67, R89,R129	100	Resistor100 OHM 1/10W 5% 0603	603	Panasonic	ERJ-3GEYJ101V
41	11	R6,R7,R9,R50,R52,R55,R56,R68, R69,R71,R115	4.7k	Resistor4.7K OHM 1/10W 5% 0402	402	Panasonic	ERJ-2GEJ472X
42	2	R8,R70	330	Resistor330 OHM 5% 1/10W 0402	402	Panasonic	ERJ-2GEJ331X
43	23	R10,R11,R12,R15,R16,R17,R18,R 19,R37,R45,R57,R62,R63,R72,R7 3,R76,R77,R78,R79,R80,R81,R11 8,R132	0	Resistor0.0 OHM 1/10W 0402	402	Panasonic	ERJ-2GE0R00X
44	11	R13,R14,R20,R30,R31,R32,R74,R 75,R82,R90,R91	1k	Resistor1K OHM 1/16W 1% 0402	402	Yageo	RC0402FR-071KL
45	42	R21,R22,R23,R24,R25,R26,R27,R 28,R29,R34,R35,R36,R39,R41,R4 4,R46,R48,R51,R53,R58,R64,R83 ,R84,R85,R87,R88,R107,R108,R1 09,R110,R111,R112,R113,R114, R119,R120,R123,R124,R131,R13 3,R134,R136	10k	Resistor10K OHM 0.5% 1/16W 0402	402	Susumu	RG1005P-103-D-T10

46	19	R33,R47,R49,R54,R60,R86,R92,R93,R94,R95,R96,R97,R98,R99,R100,R102,R104,R105,R106	24.9	Resistor24.9 OHM 1% 1/16W 0402	402	Yageo	RC0402FR-0724R9L
47	6	R38,R40,R42,R43,R101,R103	49.9	Resistor49.9 OHM 1% 1/10W 0402	402	Panasonic	ERJ-2RKF49R9X
48	2	R116,R135	31.6k	Resistor31.6K OHM 1% 1/10W 0603	603	Panasonic	ERJ-3EKF3162V
49	5	R117,R125,R126,R130,R137	64.9k	Resistor64.9K OHM 1% 1/10W 0603	603	Panasonic	ERJ-3EKF6492V
50	1	R121	2.61k	Resistor2.61K OHM 0.1% 1/10W 0603	603	Panasonic	ERA-3AEB2611V
51	1	R122	21.5k	Resistor21.5K OHM 1% 1/10W 0402	402	Panasonic	ERJ-2RKF2152X
52	3	R127,R128,R138	6.98k	Resistor6.98K OHM 1% 1/10W 0402	402	Panasonic	ERJ-2RKF6981X
53	3	SW1,SW2,SW3	TL1105F100Q	SWITCH TACTILE SPST-NO 0.05A 12VSWITCH TACTILE SPST-NO	4pinthruhole	Eswitch	TL1105F100Q
54	1	SW4	GT11MSCBE	SWITCH TOGGLE SPDT 0.4VA 20VSWITCH TOGGLE SPDT ON-ON	5pinthruhole	CK Components	GT11MSCBE
55	1	SW5	90HBW08PT	SWITCH 8 OS DIP GULL SEALED 24VSWITCH DIP 8 POS 2.54mm pitch	16-DIP	Grayhill	90HBW08PT
56	5	S_TP1,S_TP2,S_TP3,S_TP4,S_TP5	TESTPOINT PC MINIATURE SMT	PC TEST POINT MINI SMDTESTPOINT PC MINIATURE SMT	MINI_SMD	Keystone	5015
57	63	TP1,TP2,TP3,TP4,TP5,TP6,TP7,TP8,TP9,TP10,TP11,TP12,TP13,TP14,TP15,TP16,TP17,TP18,TP19,TP20,TP21,TP22,TP23,TP24,TP25,TP26,TP27,TP28,TP29,TP30,TP31,TP32,TP33,TP34,TP35,TP36,TP37,TP38,TP39,TP40,TP41,TP42,TP43,TP44,TP45,TP46,TP47,TP49,TP50,TP51,TP52,TP53,TP54,TP55,TP56,TP57,TP58,TP59,TP62,TP67,TP68,TP69,TP70	10mils_Drill_Hole_Plated	Plated Drill HoleEM,TERM,TESTPOINT, 10mil		NOT A PART	
58	7	TP48,TP60,TP61,TP63,TP64,TP65,TP66	30mils_Drill_Hole_Plated	Plated Drill HoleEM,TERM,TESTPOINT, 30mil		NOT A PART	
59	1	U1	XC5VLX30-2FFG676	IC FPGA 400 I/O 676FCBGA, Xilinx Virtex 5 LX30 FFG676IC FPGA Xilinx XC5VLX30-2FFG676	676-FCBGA	Xilinx	XC5VLX30-2FFG676C
60	1	U2	XCF16PFGS48	IC PROM SRL 1.8V 16M 48CSBGAIC PROM Xilinx XCF16P 48CSBGA	48-CSBGA	Xilinx	XCF16PFGS48C
61	1	U3	DLPC910ZYR	DLPC910, Hi-Speed Controller	516-BGA	Texas Instruments	DLPC910ZYR
62	1	U4	DLPR910YVA	IC PROM SRL 1.8V 16M 48CSBGAIC PROM DLPR910 48CSBGA	48-CSBGA	Texas Instruments	DLPR910YVA
63	1	U5	W25Q128FV5IG	IC FLASH 128MBIT 104MHZ 8SOICFlash SPI Winbond 3.3V 128Mb	8-SOIC	Winbond	W25Q128FV5IG
64	1	U6	CY7C65215	IC USB TO UART BRIDGE DUAL 32QFN CY7C65215 USB Bridge Dual Ch	32-QFN	Cypress	CY7C65215-32LTXI
65	3	U7,U16,U17	74AUP1G06DCK	IC INVERTER SINGLE 1INP SC70-574AUP1G06 BUFF LO PWR INV OD	5-DCK	Texas Instruments	SN74AUP1G06DCKT
66	3	U8,U9,U10	TPS54521RHL	IC REG BUCK SYNC ADJ 5A 14QFNCIC REG BUCK 5A 14QFN TPS54521	14-VQFN	Texas Instruments	TPS54521RHL
67	1	U11	TPS73618DBV	IC REG LDO 1.8V 0.4A SOT23-5IC REG LDO 1.8V 0.4A TPS73618	DBV_5	Texas Instruments	TPS73618DBVR
68	2	U12,U13	INA210BIDCK	IC OPAMP CURR SENSE 14KHZ SC70-6IC OPAMP CURR SENSE 14KHZ	6-DCK	Texas Instruments	INA210BIDCKT
69	1	U14	TPS3838K33	IC 2.93V NANOPWR MON SOT23-5IC Reset Monitor 3.3V TPS3838	SOT23-5	Texas Instruments	TPS3838K33DBVR
70	1	U15	TPD2E2U06	TVS DIODE 5.5VWM 12.4VC SOT5TVS DIODE USB2.0	5-DRL	Texas Instruments	TPD2E2U06DRLR

71	1	U18	SN74AUP1G00DBVR	IC GATE NAND 1CH 2-INP SOT-23-5IC GATE NAND 1CH 2-INP SOT-23-5	5-DBV	Texas Instruments	SN74AUP1G00DBVR
72	1	U19	TL7712ACDR	IC SUPPLY VOLT SUPERVISOR 8-SOICIC 12V PWR SUPERVISOR TL7712A	8-SOIC	Texas Instruments	TL7712ACDR