

Bill of Materials

TI DESIGNS

TIDA-080001- MainBoard

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
1	3	C1,C2,C75	100uF	CAP CER 100UF 16V 20% X5R 1210	Taiyo Yuden	EMK325ABJ107MM-T		1210	
2	53	C3,C7,C8,C9,C10,C12,C14,C18,C19,C22,C24,C25,C26,C27,C28,C29,C30,C31,C32,C35,C36	0.1uF	CAP CER .1UF 16V X7R 0402	TDK	C1005X7R1C104K050BC		0402_AVXA	
3	2	C4,C55	4.7uF	CAP CER 4.7UF 6.3V 20% X5R 0402	TDK	C1005X5R0J475M		402	
4	8	C5,C6,C13,C15,C20,C21,C51,C73	10uF	CAP CERAMIC 10UF 6.3V X5R 0603	TDK	C1608X5R0J106M080AB		603	
5	4	C11,C23,C33,C34	1000pF	CAP CERAMIC .001UF 16V X7R 0402	Murata	GRM155R71C102KA01D		402	
6	5	C16,C17,C44,C67,C68	22uF	22uF +20% 35V JB 1206	Murata	C3216JB1V226M160AC		1206	
7	3	C38,C41,C72	2.2uF	CAP CER 2.2UF 6.3V X5R 0402	TDK	C1005X5R0J225M		402	
8	3	C40,C61,C82	1uF	CAP CER 1.0UF 25V X5R 0402	Taiyo Yuden	TMK105BJ105MV-F		402	
9	4	C45,C62,C90,C92	0.1uF	0.10uF 50V Ceramic Capacitor X7R 0402	TDK	CGA2B3X7R1H104K050BB		402	
10	1	C48	2200pF	CAP CER 2200PF 25V X7R 0402	Murata	GRM155R71E222KA01D		402	
11	0	C49,C74	0.1uF	CAP CER .1UF 16V X7R 0402	TDK	C1005X7R1C104K050BC		0402_AVXA	
12	1	C52	2.2uF	2.2uF 25V Ceramic Capacitor X5R 0603	Taiyo Yuden	TMK1077ABJ225KA-T		603	
13	1	C53	39.0nF	0.039uF 10V Ceramic Capacitor X5R 0402	Murata	GRM155R61A393KA01D		402	
14	1	C54	680pF	680pF 50V Ceramic Capacitor X7R 0402	Yageo	CC0402KRX7R9BB681		402	
15	3	C56,C57,C58	47uF	47uF 10V Ceramic Capacitor X5R 1206	Murata	GRT31CR61A476ME13L		1206	
16	1	C59	56pF	56pF 50V Ceramic Capacitor C0G, NP0 0805	Yageo	CC0805JRNPO9BN560		805	
17	1	C60	3300pF	3300pF 25V Ceramic Capacitor X7R 0805	Murata	GRM216R71E332KA01D		805	
18	2	C63,C87	10uF	10uF 35V Ceramic Capacitor X5R 0805	TDK	C2012X5R1V106K085AC		805	
19	0	C64	47uF	47uF 10V Ceramic Capacitor X5R 1206	Murata	GRT31CR61A476ME13L		1206	
20	1	C65	100uF	100uF 6.3V Ceramic Capacitor X5R 1206	KEMET	C1206C107M9PACTU		1206	
21	1	C70	0.22uF	CAP CER 0.22UF 25V 10% X5R 0402	TDK	C1005X5R1E224K050BC		402	
22	2	C83,C84	18pF	CAP CER 18PF 50V C0G 5% 0402	TDK	C1005C0G1H180J		402	
23	4	D1,D2,D3,D7	green	LED 565NM WTR CLR GREEN 1206 SMD	Lumex	SML-LX1206GC-TR		1206	
24	1	D4	8AS70-05	DIODE SCHOTTKY 70V 70MA SOT23	Diodes Incorporated	BAS70-05-7-F		SOT-23	
25	6	D5,D6,D8,D9,D10,D11	blue	LED INGAN/ SiC U-BLUE CLR 1206SMD	Lumex	SML-LX1206USBC-TR		1206	
26	6	F1,F2,F3,F4,F5,F6	MMZ1608S601A	FERRITE CHIP 600 OHM 500MA 0603	TDK	MMZ1608S601A		603	
27	1	F7	5A	FUSE BRD MNT 5A 32VAC 35VDC 1206	LittleFuse	0437005.WR		1206	
28	0	F8	MMZ1608S121A	FERRITE CHIP 120 OHM 500MA 06	TDK	MMZ1608S121A		603	
29	1	J1	HDR,14P,2R	CONN HEADER 14POS .100in DL GOLD	Samtec	TSW-107-14-G-D		HDR14P 2R 100mil	
30	0	J2	HDR,2P,1R	CONN HEADER 2POS .100 VERT GOLD	Molex	22112022		22Series 2P	
31	1	J3	SJ-43516-SMT-TR	CONN AUDIO JACK 3.5MM 4COND SMD	CUI Stack	SJ-43516-SMT-TR		CUI SJ-43516-SMT	
32	1	J4	HDR,3P,1R	PLUG	Samtec	TSW-103-07-G-S		TSW-103-07-G-S	
33	1	J5	22286020	2 Positions Header, Right Angle	Harwin	22286020		HDR2X1 RA	
34	1	J6	HDMI	CONN RCPT 19POS HDMI RT ANG SMD	Molex	47151-0001		Molex 47151-0001	
35	1	J7	HDR,2P,1R	CONN HEADER 2POS .100 VERT GOLD	Molex	22112022		22Series 2P	
36	1	J8	HDR,4P,1R	PLUG	Samtec	TSW-104-14-G-S		HDR4P 1R	
37	1	J9	QTH-Q30-02-L-D-A	CONN HEADER HS .5MM 60POS DL AU (stacking ht 8mm)	Samsunq	QTH-030-02-L-D-A		Samtec QTH-030-xx-x-D-A	
38	1	J10	PJ-082BH	CONN PWR JACK 2.5X5.5MM SOLDER	CUI Inc	PJ-082BH		jack2_pi-082bh_cui	
39	1	J11	EM,HDR,3P,1R,2x	SIL VERTICAL PC TAIL PIN HEADER	Harwin	M20-9990345		HDR3X1	
40	0	J12	EM,HDR,8P,1R,2.54	CONN HEADER .100" SNGL R/A 8POS	Sullins	PRPC008SBAN-M71RC		HDR8x1 RA	
41	1	J13	USB - mini B USB 2.0	CONN RECEPT MINI-USB R/A 5POS SMD	Molex	675031020		conn5_usb_b_mini MOLEX	
42	0	J14	S4B-EH(LF)(SN)	CONN HEADER EH SIDE 4POS 2.5MM	JST	S4B-EH(LF)(SN)		CONN4-S4B-EH_JST	
43	2	L1,L3	2.2uH	INDUCTOR 2.2UH 20% 1300MA 1008	Murata	LQM2HPN2R2MG0L		1008 2p5mmx2mm	
44	1	L2	10uH	Inductor 10 uH 8.7 A 20% SMD	Coilcraft	XAL8080-103MEB		IND2_XAL8080_COILCRAFT	
45	1	L4	33uH	Inductor 33 uH 20 % 2.6 A	Coilcraft	MSS1246-333MLB		IND2-MSS1246_COIL	
46	5	PB_UP1,PB_SEL1,PB_RIGHT1,PB_LEFT1,PB_DOWN1	KT11B1SM	SWITCH TACT 0.64MM SILV GWING	C&K	KT11B1SM34LFS		KT11B1SM	
47	1	Q1	DMN26DOUT	MOSFET N-CH 20V 230MA SOT523	Diodes Incorporated	DMN26DOUT		SOT 523	
48	3	RA1,RA2,RA3	22	RES ARRAY 22 OHM 8 RES 1506	Panasonic	EXB-2HV220JV		EXB-2HV	
49	3	R1,R2,R31	180k	RES 180K OHM 1/16W 1% 0402 SMD	Yageo	RC0402FR-07180KL		402	
50	1	R3	3k	RES 3K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF3001X		402	
51	1	R4	1.5k	RES 1.50K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF1501X		402	
52	29	R5,R15,R22,R23,R32,R42,R43,R44,R45,R50,R51,R53,R54,R69,R77,R79,R80,R82,R83,R88	10k	RES SMD 10K OHM 1% 1/10W 0402	Panasonic	ERJ-2RKF1002X		402	
53	0	R6	0	RES SMD 0 OHM 1/4 W 1206	Yageo	RC1206JR-070RL		1206	
54	10	R7,R16,R62,R63,R64,R72,R73,R74,R75,R76	22	RES 22.0 OHM 1/16W 1% 0402 SMD	Yageo	RC0402FR-0722RL		402	
55	6	R8,R9,R10,R19,R20,R21	30.1	RES 30.1 OHM 1/16W 1% 0402 SMD	Yageo	RC0402FR-0730R1L		402	
56	2	R11,R18	47k	RES 47.0K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF4702X		402	
57	1	R12	150	RES SMD 150 OHM 1% 1/16W 0402	Yageo	RC0402FR-07150RL		402	
58	17	R13,R14,R17,R41,R46,R47,R48,R49,R56,R67,R71,R91,R92,R99,R100,R101,R102	0	RES 0.0 OHM 1/16W 0402 SMD	Panasonic	ERJ-2GEOR00X		402	
59	1	R24	95.3k	RES SMD 95.3K OHM 1% 1/16W 0402	Vishay Dale	CRCW040295K3FKED		402	
60	2	R25,R39	30.9k	RES SMD 30.9K OHM 1% 1/16W 0402	Vishay Dale	CRCW040230K9FKED		402	
61	2	R26,R38	274k	RES SMD 274K OHM 1% 1/16W 0402	Vishay Dale	CRCW0402274KFKED		402	

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62	1	R27	2.15k	RES SMD 2.15K OHM 1% 1/16W 0402	Vishay Dale	CRCW04022K15FKED		402	
63	1	R28	32.4k	RES SMD 32.4K OHM 1% 1/10W 0402	Panasonic	ERJ-2RKF3242X		402	
64	3	R29,R36,R81	100k	RES SMD 100K OHM 1% 1/16W 0402	Yageo	RC0402FR-07100KL		402	
65	1	R30	360k	RES 360K OHM 1/16W 1% 0402 SMD	Yageo	RC0402FR-07360KL		402	
66	0	R33,R55	0	RES 0.0 OHM 1/16W 0402 SMD	Panasonic	ERJ-2GE0R00X		402	
67	1	R34	10	RES 10.0 OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF10R0X		402	
68	1	R35	19.1k	RES SMD 19.1K OHM 1% 1/8W 0805	Panasonic	ERJ-6ENF1912V		805	
69	1	R37	10.7k	RES SMD 10.7K OHM 1% 1/16W 0402	Vishay Dale	CRCW040210K7FKED		402	
70	1	R40	97.6k	RES SMD 97.6K OHM 1% 1/16W 0402	Vishay Dale	CRCW040297K6FKED		402	
71	2	R52,R78	4.7k	RES 4.7K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF4701X		402	
72	1	R57	2M	RES 2M OHM 1/10W 5% 0402 SMD	Panasonic	ERJ-2GEJ205X		402	
73	1	R58	300k	RES 300K OHM 1/16W 1% 0402 SMD	Yageo	RC0402FR-07300KL		402	
74	3	R59,R60,R61	33.2	RES 33.2 OHM 1/16W 1% 0402 SMD	Panasonic	ERJ-2RKF33R2X		402	
75	4	R65,R66,R70,R105	100	RES 100 OHM 1/10W 1% 0402 SMD	Vishay Beyschlag	MCS04020C1000FE000		402	
76	1	R68	1M	RES 1M OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF1004X		402	
77	5	R85,R93,R94,R95,R104	470k	RES 470K OHM 1/10W 1% 0402 SMD	Panasonic	ERJ-2RKF4703X		402	
78	1	SW1	GT11MSCBE	SWITCH TOGGLE SPDT ULTRAMINI SMD	C&K	GT11MSCBE		GT11MSCBE	
79	2	U1,U9	TPS62260DDCT	IC REG BUCK SYNC ADJ TSOT23-5	Texas Instruments	TPS62260DDCT		TSOT-23_DDC_R-PDSO-G5	
80	1	U2	TLV320DAC3101	IC STEREO AUD DAC CLASS-D LP 32QFN	Texas Instruments	TLV320DAC3101IRHBR		QFN-32_RHB_S-PVQFN-N32	
81	3	U3,U4,U16	TPD2E001DRY	IC ESD-PROT ARRAY 2CH 6-SON	Texas Instruments	TPD2E001DRYR		U_6_DRY	
82	1	U5	TPS54335ADDAR	IC REG BCK ADJ 3A SYNC 8SOPWRPAD	Texas Instruments	TPS54335ADDAR		8-SO-PWRPAD_DDA_R-PDSO-G8	
83	5	U6,U18,U23,U28,U29	SN74AUP1G07DCK	IC INVERTER SINGLE 1INPUT SC705, open drain	Texas Instruments	SN74AUP1G06DCKR		U_5_DCK	
84	1	U7	SN74AVC4T774PWR	IC BUS TRANSCVR 4BIT DL 16TSSOP	Texas Instruments	SN74AVC4T774PWR		TSSOP16_PW	
85	3	U8,U13,U14	SN74AUP2G07DCK	IC BUFF/DRIVER DUAL LP SC70-6	Texas Instruments	SN74AUP2G07DCK		U_6_DCK	
86	1	U10	TPS2061CDBVT	IC PWR DIST SWITCH SGL SOT23-5	Texas Instruments	TPS2061CDBVT		SOT_23_5_DBV_R-PDSO-G5	
87	1	U11	TXS0102	IC VOLT-LEVEL TRANSLATOR 8-US8	Texas Instruments	TXS0102DCUR		VSSOP-8_DCU	
88	1	U12	CY7C65215-32LTXI	IC USB TO UART BRIDGE DUAL 32QFN	Cypress	CY7C65215-32LTXI		CY7C65215_32pin_QFN	
89	1	U15	TPS54335ADDAR	IC REG BCK ADJ 3A SYNC 8SOPWRPAD	Texas Instruments	TPS54335ADDAR		HSOIC8_DDA_R-PDSO-G8	
90	1	U17	M24C02-WMN6TP	IC EEPROM 2KBIT 400KHZ 8SOIC	Stmicroelectronics	M24C02-WMN6TP		SOIC-8_3p90mm_wide	
91	4	U19,U26,U27,U30	SN74AUP1G07DCK	IC BUFF/DVR LOW PWR N-INV SC705, open drain	Texas Instruments	SN74AUP1G07DCKR		U_5_DCK	
92	2	U20,U21	TPD4S009DBVR	IC 4CH ESD SOLUTION SOT23-6	Texas Instruments	TPD4S009DBVR		SOT23-6_DBV_R-PDSO-G6	
93	1	U22	ITE6801FN	HDMI Revr	ITE Tech Inc	ITE6801FN		ITE6801_76pin_QFN	
94	1	U24	MSP430F2274IDAR	IC MCU 16BIT 32KB FLASH 38TSSOP	Texas Instruments	MSP430F2274IDAR		TSSOP_38_DA_R-PDSO-G	
95	1	U25	TPD2E2U06DRL	TVS DIODE 5.5VWM 12.4VC 6SOT	Texas Instruments	TPD2E2U06DRLR		SOT-5_DRL_R-PDSO-N5	
96	0	VR1	50k	POT 50K OHM THUMBWHEEL CERM ST	Bourns	3352H-1-503LF		BOURNS_3352H-1-503LF	
97	1	X1	27.000MHz	CRYSTAL 27MHZ 18PF SMD	Abrakon	ABM8-27.000MHZ-B2-T		Abrakon ABM8	