

Bill of Materials

TI DESIGNS

TIDA-00576

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
1	0	TP_T_D1,TP1,TP_T_D2,TP2,TP_T_D3,TP_T_3D,TP3,TP_T_D4,TP4,TP_T_D5,TP5,PWRSV,DSTSV,TP_T_D6,TP6,TP_T_D7,TP7,TP_T_D8,TP8,TP_T_D9,TP9,TP_T_D10,TP10,TP_T_D11,TP11,1P1V,TP_T_D12,TP12,TP_T_D13,TP13,TP_T_D14,TP14,TP_T_D15,TP15,TP_T_D16,TP16,TP_T_D17,TP17,TP_T_D18,TP18,1P8V,TP_T_D19,TP19,TP_T_D20,TP20,TP_T_D21,TP21,TP_T_D22,TP22,TP_T_D23,TP23,TP24,TP25,TP26,TP27,TP28,TP29,TP30,TP31,TP32,3P3V,ILLSPSV,TP_T_VS,TP_T_HS,TP_T_DE,TP_T_DO,PCLKS,PCLKM,LS_WD,LS_SRD,LS_RD,LS_CK,ARSTZ	EM,TERM,TESTPOINT	hole,plated	-- NOT A PART --			Plated Drill Hole, EM,TERM,TESTPOINT	
2	0	GP5V,TP12V,RGATE,REDC,LSG,I_SW,HS G,GRNC,GGATE,BLUC,BGATE	20mil_Drill_Hole_Plated	hole,plated	-- NOT A PART --			Plated Drill Hole, 20mil_Drill_Hole_Plated	
3	0	S_HP,S_HN,S_FP,S_FN,S_CP,S_CN,S_CK P,S_CKN,HP,HN,FP,FP,CP,CN,CKP,CKN	20mil_Test_Pad	hole,plated	-- NOT A PART --			20mils Test Pad, 20mil_Test_Pad	
4	14	C_QHS1,C_AN1,C_QHS2,C_AN2,C_QHS3,C_AN3,C_AN4,C149,C153,C158,C161,C162,C163,C_ILLL	22uF	capacitor	Samsung	CL21A226MAQNNNE		805	
5	113	C1,C2,C3,C5,C6,C7,C8,C10,C12,C14,C15,C16,C18,C22,C23,C24,C25,C26,C27,C28,C30,C31,C32,C33,C34,C35,C38,C40,C42,C43,C44,C45,C46,C47,C48,C49,C50,C51,C52,C53,C54,C55,C56,C57,C61,C63,C64,C65,C66,C67,C68,C69,C70,C71,C72,C73,C74,C75,C77,C78,C79,C80,C81,C82,C84,C85,C86,C87,C89,C91,C93,C94,C95,C96,C97,C98,C99,C100,C101,C102,C103,C104,C105,C106,C107,C108,C110,C111,C112,C113,C115,C116,C117,C118,C119,C120,C121,C122,C123,C124,C125,C126,C127,C132,C133,C137,C148,C156,C157,C169,C178,C179,C184	0.1uF	capacitor	TDK	CGA2B3X7R1H104K050BB		402	
6	13	88,C109,C114,C144	2.2uF	capacitor	Taiyo Yuden	TMK107ABJ225KA-T		603	
7	2	C19,C21	18pF	capacitor	Murata	GRM1555C1H180JA01D		402	

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8	15	C147,C151,C152,C154,C155,C166,C167	10uF	capacitor	Murata	GRM218R61E106KA73L		805	
9	7	C39,C62,C76,C90,C92,C181,C185	10nF	capacitor	Murata	GRM155R71E103KA01D		402	
10	0	C41,C180,C182	0.1uF	capacitor	TDK	CGA2B3X7R1H104K050BB		402	
11	3	C58,C59,C60	10pF	capacitor	Kemet	C0402C100J5GACTU		402	
12	2	C129,C173	15pF	capacitor	TDK	C1005C0G1H150J050BA		402	
13	2	C134,C135	100uF	capacitor	Kemet	T491X107K025AT		2917	
14	0	C136	100uF	capacitor	Kemet	T491X107K025AT		2917	
15	10	C138,C139,C140,C143,C164,C165,C168,C172,C175,C176	1.0uF	capacitor	Taiyo Yuden	UMK107B105KA-T		603	
16	1	C145	4.7uF	capacitor	TDK	C1608X5R1C475M080AC		603	
17	3	C150,C159,C160	470pF	capacitor	TDK	C1608COG1H471J080AA		603	
18	0	C170,C177	680pF	capacitor	TDK	C1608COG1H681J080AA		603	
19	1	C171	1200pF	capacitor	AVX	12065A122JAT2A		1206	
20	1	C174	0.47uF	capacitor	Taiyo Yuden	UMK107ABJ474KA-T		603	
21	1	DN1	BAT54C	Diode Dual	Diodes Inc.	BAT54C-7-F		SOT23	
22	10	D_PROJON,D_MSMPREQ,D_MSPACK,D_	LG M67K-G1J2-24-Z	LED Green	OSRAM	LG M67K-G1J2-24-Z		603	
23	1	D_GP5V	LB Q39G-L2N2-35-1	LED Blue	OSRAM	LB Q39G-L2N2-35-1		603	
24	1	D_RSTZ	LS M67K-J2L1-1-Z	LED Red	OSRAM	LS M67K-J2L1-1-Z		603	
25	3	D1,D2,D3	DF3A6.8FUT1G	Diode	ON Semi	DF3A6.8FUT1G		SOT323	
26	1	D4	SMCJ15CA	Diode	Littlefuse	SMCJ15CA		DO-214AB, SMC	
27	2	D5,D7	B240A-13-F	Diode	Diodes Inc.	B240A-13-F		DO-214AC, SMA	
28	1	D6	MBR0540	Diode	Fairchild	MBR0540		SOD123	
29	3	D8,D9,D10	ESDA18-1K	Diode	STM	ESDA18-1K		SOD523	
30	6	D11,D12,D13,D14,D15,D16	DFLS230L-7	Diode	Diodes Inc.	DFLS230L-7		POWERDI123	
31	12	FB1,FB2,FB3,FB4,FB5,FB6,FB7,FB8,FB9,FB10,FB11,FB12	BKP1005EM121-T	Ferrite	Taiyo Yuden	BKP1005EM121-T		402	
32	1	FB13	HI1612X560R-10	Ferrite	Laird SI Products	HI1612X560R-10		1612	
33	1	F1	2410SFV10.0FM/125-2	Fuse	TE	2410SFV10.0FM/125-2		2410	
34	0	GP1,GP2,GP3,GP4,GP5,GP6,GP7,GP8	EM,TERM,GOUNDPOINT	hole,plated	-- NOT A PART --			Plated Drill Hole, EM,TERM,GROUNPOINT	
35	0	LSEL1,1P2V,3P3V_SB,TP_VRST,TP_VOFS,TP_VBIAS,RSTZ,RLIM,PROJON,LSEL0,LED_A,INTZ	tp50rd30	hole,plated	-- NOT A PART --			Plated Drill Hole, tp50rd30,	
36	2	J_PEDID,JRST	M20-8770246	2pos Header	Harwin	M20-8770246			
37	3	J_RED,J_GRN,J_BLU	874381043	CONN HEADER 10pos	Molex	874381043			
38	0	J_DEV	S4B-EH(LF)(SN)	CONN HEADER 4pos	JST	S4B-EH(LF)(SN)			
39	4	J_FAN1,J_FAN2,J_FAN3,J_FAN4	B2B-EH	CONN HEADER 2pos	JST	B2B-EH-A(LF)(SN)			
40	1	J_FLEX	FH28H-80S-0.55H(05)	CONN FFC 80pos	Hirose	FH28H-80S-0.55H(05)			
41	1	J_HDMI	HDMI Type C (Mini)	HDMI-MINI CONN	TE	2013978-1			
42	4	J_3DG,J_WPC,J_TMP,J_LABB	B3B-ZR	CONN HEADER 3pos	JST	B3B-ZR-SM4-TF(LF)(SN)			
43	1	J_MSPJTAG	5103308-2	CONN HEADER LOPRO STR 14POS	TE Connectivity	5103308-2			
44	1	J_PWR	PJ-082BH	CONN PWR JACK	CUI Inc	PJ-082BH			
45	1	J_USB	USB Micro B Rcpt	CONN RCPT MICRO USB R/A SMD	Molex	1050170001			
46	2	L1,L_DRST	10uH	Inductor	CoilCraft	LPS4018-103MLB			
47	1	L_ILLM	1.4uH	Inductor	Coilcraft	MLC1565-142MLB			
48	3	L2,L3,L4	4.7uH	Inductor	Laird-SI	TYS40304R7M-10			
49	1	OSC24M	DSC1121C11-024.0000	OSC MEMS 24.000MHZ	Micrel	DSC1121C11-024.0000			

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50	4	Q_REDG,Q_ILLS,Q_GRNG,Q_BLUG	CSD17501Q5A	MOSFET N-CH	TI	CSD17501Q5A			
51	1	Q_ILLS	CSD17522Q5A	MOSFET N-CH	TI	CSD17522Q5A			
52	5	Q1,Q2,Q3,Q4,Q5	DMN26DOUT-7	MOSFET N-CH	Diodes	DMN26DOUT-7			
53	25	R2,R10,R11,R12,R13,R14,R15,R23,R41,R58,R75,R97,R98,R99,R103,R105,R106,R107,R108,R111,R112,R113,R132,RPCLKS,RPCLKM	22	Resistor, 22, 1/10W, 1%, .0402	Panasonic	ERJ-2RKF22R0X			402
54	6	RP1,RP2,RP3,RP4,RP5,RP6	22	Resistor	Panasonic	EXB-N8V220JX			804
55	1	RT1	100K	Thermistor	Murata	NCP15WF104F03RC			402
56	47	R1,R4,R7,R8,R16,R19,R21,R22,R34,R35,R38,R39,R40,R45,R46,R54,R55,R56,R57,R59,R60,R61,R62,R63,R64,R66,R67,R68,R69,R70,R71,R72,R73,R74,R76,R77,R78,R79,R80,R86,R88,R89,R95,R109,R110,R121,R136,R138	10k	Resistor	Panasonic	ERJ-2GEJ103X			402
57	2	R3,R24	1M	Resistor	Panasonic	ERJ-2GEJ105X			402
58	0	R5,R32	10k	Resistor	Panasonic	ERJ-2GEJ103X			402
59	2	R6,R33	47k	Resistor	Panasonic	ERJ-2GEJ473X			402
60	0	R9,R17,R30,R37,R82,R83,R85	0	Resistor	Panasonic	ERJ-2GE0R00X			402
61	21	R18,R27,R29,R42,R43,R44,R96,R102,R126,R128,R133,R134,R135,R139,R141,R142,R145,R149,R150,R151	0	Resistor	Panasonic	ERJ-2GE0R00X			
62	1	R20	300k	Resistor	Panasonic	ERJ-2RKF3003X			402
63	1	R25	1.5k	Resistor	Panasonic	ERJ-3GEYJ152V			603
64	3	R26,R100,R104	3.16k	Resistor	Panasonic	ERJ-3EKF3161V			603
65	21	R28,R31,R36,R47,R48,R49,R50,R51,R52,R53,R65,R81,R84,R87,R91,R92,R101,R114,R117,R125,R153	1k	Resistor	Yageo	RC0402FR-071KL			402
66	2	R89,R90	43	Resistor	Panasonic	ERJ-2RKF43R0X			402
67	3	R93,R94,R152	100k	Resistor	Panasonic	ERJ-3EKF1003V			603
68	1	R115	63.4k	Resistor	Panasonic	ERJ-2RKF6342X			402
69	0	R116	3.16k	Resistor	Panasonic	ERJ-3EKF3161V			402
70	1	R118	20.0k	Resistor	Yageo	RC0402FR-0720KL			402
71	0	R119	1.5k	Resistor	Panasonic	ERJ-3GEYJ152V			603
72	1	R120	0	Resistor	Stackpole	RMCF25122TOR00			2512
73	5	R122,R123,R124,R130,R131	10	Resistor	Rohm	ESR03EZPF10R0			603
74	1	R127	0	Resistor	Panasonic	ERJ-6GEY0R00V			805
75	1	R129	3.9	Resistor	Rohm	ESR25JZPJ3R9			1210
76	3	R140,R143,R144	30k	Resistor	Panasonic	ERA-2AEB303X			402
77	2	R25m1,R25m2	0.025	Resistor	TT Electronics	LRC-LRF2010LF-01-R025F			2010
78	1	SW_MSPONOFF	GT11MSCBE	SWITCH TOGGLE	CK Components	GT11MSCBE			
79	0	SW1	TL1105F100Q	SWITCH TACTILE	Esswitch	TL1105F100Q			
80	2	TGND1,TGND2	EM,TERM,5051 GND TESTPOINT	TEST POINT PC MINI	Keystone	5001			
81	2	UDLPC_S,UDLPC_M	DLP3439	DLP Controller	Texas Instruments	DLP3439ZEZ		DPP3439_13mmx13mm_VFBGA_201balls	

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82	1	U_CYP	CY7C65215	CY7C65215	Cypress	CY7C65215-32LTXI		32-VFQFN	
83	1	U_DLPA	DLPA3005	DLPA3005 PMIC	Texas Instruments	DLPA3005CPFDR			
84	1	U_EDIDROM	M24C02-WMN	IC EEPROM 2KBIT	STMicro	M24C02-WMN6TP		8SOIC	
85	2	U_FLBS,U_FLBM	SN74AVC4T774PWR	IC BUS TRANSCVR 4BIT	Texas Instruments	SN74AVC4T774PWR		16-TSSOP	
86	2	U_FLSHS,U_FLSHM	W25Q64FVSSIG	IC FLASH 64MBIT	Winbond	W25Q64FVSSIG		8SOIC	
87	1	U_JTE	IT6801FN	HDMI 1.4 Receiver	ITE Tech Inc	IT6801FN		ITE6801_76pin_QFN	
88	1	U_LDO12	TLV70012DDC	IC REG LDO	Texas Instruments	TLV70012DDCT		5-SOT	
89	1	U_MSP	MSP430F22x4	MCU MSP430 16BIT 32KB FLASH	Texas Instruments	MSP430F2274IDAR		38-TSSOP	
90	1	U_OSCBUF	CDCLVC1102PWR	IC CLK BUFFER 1:2 250MHZ	Texas Instruments	CDCLVC1102PWR		8-TSSOP	
91	1	U_SBSW	TPS560200	IC REG BUCK SYNC	Texas Instruments	TPS560200DBVR		5SOT23	
92	1	U_UESD	TPD2E2U06	TVS DIODE	Texas Instruments	TPD2E2U06DRLR		SOT-553	
93	1	U_ZDB	PL123E-05SC-R	IC CLK ZDB 1:5 220MHZ	Micrel	PL123E-05SC-R		8SOIC	
94	1	U1	TPS2061CDBVT	IC SWITCH PWR DIST SNGL	Texas Instruments	TPS2061CDBVT		SOT23-5	
95	2	U2,U3	TPD4E05U06DQAR	HDMI 1.4 ESD TVS DIODE	Texas Instruments	TPD4E05U06DQAR		10-SON	
96	5	U4,U7,U8,U9,U12	74AUP1G07DCK	IC BUFF/DVR LOW PWR N-INV	Texas Instruments	SN74AUP1G07DCKR		5-TSSOP	
97	1	U5	TC7WB66CFK	IC DUAL BUS SWITCH	Toshiba	TC7WB66CFK,LF		8-VFSOP	
98	3	U6,U10,U11	74AUP1G06DCK	IC INVERTER SINGLE	Texas Instruments	SN74AUP1G06DCKT			
99	1	X1	27MHz	CRYSTAL 27MHZ	CTS	403C35D27M00000			
100	1	R137	300	Resistor	Panasonic	ERJ-2RF3000X		402	

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