



Bill of Materials

TI DESIGNS

TIDM-30UTSMTSTRP
Main Board

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number	Alternate Part	PCB Footprint	Note
1	1	IPC		Printed Circuit Board		XX####			
2	1	C4	470nF	470nF	Taiyo Yuden	EMK107F474ZA-T		0603	Digikey Product Folder
3	8	C8A, C8B, C8C, C9A, C9B, C9C, C	47pF	06035A470JAT2A	AVX Corporation	06035A470JAT2A		0603	Digikey Product Folder
4	4	C10A, C10B, C10C, C14	0.015uF	GRM188R71C153KA01D	Murata Electronics North America	GRM188R71C153KA01D		0603	Digikey Product Folder
5	3	C11, C20, C22	0.1uF	0.1uF	TDK Corporation	C1005X5R1A104K		0402	Digikey Product Folder
6	1	C19	10uF	293D106X0010B2TE3	Vishay Sprague	293D106X0010B2TE3		3528-21	Digikey Product Folder
7	1	C21	2200pF	C0603X222K5RACTU	Kemet	C0603X222K5RACTU		0603	Digikey Product Folder
8	4	C23, C24, C25, C28	220uF	293D227X96R3D2TE3	Vishay Sprague	293D227X96R3D2TE3		7343-31	Digikey Product Folder
9	4	D1A, D1B, D1C, D8		SMAJ5.0CA	Littelfuse Inc	SMAJ5.0CA		DSO-C2/X1.8	Digikey Product Folder
10	10	D2A, D2B, D2C, D3A, D3B, D3C, D		V430CH8T	Littelfuse Inc	V430CH8T		V430CH8T	Digikey Product Folder
11	1	D6		V320SM7	Littelfuse Inc	V320SM7		V320SM7	Digikey Product Folder
12	1	D7	7V	SMBJ7.0A-13-F	Diodes Incorporated	SMBJ7.0A-13-F		SMB	Digikey Product Folder
13	1	FR		6125FA1A	Cooper Bussmann	6125FA1A		6125FA	Digikey Product Folder
14	4	H1, H2, H3, H4		NY PMS 440 0025 PH		NY PMS 440 0025 PH		NY PMS 440 0025 PH	Fasnet Direct
15	4	H5, H6, H7, H8		1902C		1902C		Keystone_1902C	Keyelco
16	1	J5		TSW-102-07-G-D	TE Connectivity	825440-2		TSW-102-07-G-D	Digikey Product Folder
17	1	J6		Used in BOM report	Sullins Connector Solutions	GRPB061VWVN-RC		6-pin header (1.27mm)	Digikey Product Folder
18	4	J8, J10, J11, J12	1x3	PBC03SAAN	Sullins Connector Solutions	PBC03SAAN		PBC03SAAN	Digikey Product Folder
19	1	J9		Header 4	TE Connectivity	3-644456-4		HDR1X4	Digikey Product Folder
20	6	L1A, L1B, L1C, L2A, L2B, L2C		BLM21BD121SN1D	Murata Electronics North America	BLM21BD121SN1D		YW0805	Digikey Product Folder
21	4	LED1,LED3, LED5,LED7		Used in BOM report	Lite-On Inc	LTW-170TK		0805-LED	Digikey Product Folder
22	3	LED2, LED4, LED6		Used in BOM report	Lite-On Inc	LTST-C170TBKT		0805-LED	Digikey Product Folder
23	1	P1		MHDR2X7	TE Connectivity	1-1634688-4		2X7BOXHEADER	Digikey Product Folder
24	3	R1, R13, R14	330k	330k	Vishay Dale	CRCW2512330KFKEG		R2512	Digikey Product Folder
25	7	R2, R3, R4, R5, R7, R12, R17	390	390	Yageo	RC0603JR-07390RL		0603	Digikey Product Folder
26	3	R6A, R6B, R6C		ULRB12512R0005FLFSLT	Bourns Inc.	CRF2512-FX-R002ELF		Current Sensing Pad	Digikey Product Folder
27	7	R8A, R8B, R8C, R9A, R9B, R9C, R	1.00k	1.00k	Vishay Dale	CRCW06031K00FKEA		0603	Digikey Product Folder
28	1	R10	100	100	Vishay Dale	CRCW0603100RFKEA		0603	Digikey Product Folder
29	1	R15	1.50k	1.50k	Vishay Dale	CRCW08051K50FKEA		0805	Digikey Product Folder
30	1	R16	4.7k	4.7k	Vishay Dale	CRCW06034K70JNEA		0603	Digikey Product Folder
31	3	R31, R32, R33	Open	Open		Do not populate		0603	
32	1	R34	330	330	Vishay Dale	CRCW0603330RJNEA		0603	Digikey Product Folder
33	13	R39, R43, R44, R45, R46, R47, R48	0	0	Vishay Dale	CRCW06030000Z0EA		0603	Digikey Product Folder

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34	2	RELA, RELB		RT314F05	TE Connectivity	RT314F05		TE RELAY TYPE A	Digikey Product Folder
35	1	RELC		RZ031A4D005	TE Connectivity	RZ031A4D005		TE RELAY TYPE A	Digikey Product Folder
36	2	RF1, RF2		TFM-110-02-S-D-A-K-TR	Samtec	TFM-110-02-S-D-A-K-TR		Samtec_TFM-110-02-	Arrow Product Page
37	1	SOC4		Plug AC Male	Bulgin	PX0580/PC		IEC9.14-2H3	Digikey Product Folder
38	4	SOC5, SOCA, SOCB, SOCC		Plug AC Female	Bulgin	PX0675/PC		IEC7-2H3	Digikey Product Folder
39	1	U1		MSP430i2040PW	Texas Instruments	MSP430i2040PW		TSSO10x6-G28	MSP430i2040 Product Page
40	1	U4		Used in BOM report	CUI Inc	VSK-S2-5U		VSK-S2-5U	Digikey Product Folder
41	1	U5		TPS77033DBVT	Texas Instruments	TPS77033DBVT		DBV0005A_N	TPS77033 Product Page
42	1	U6		ULN2003LVDR	Texas Instruments	ULN2003LVDR		D0016A_N	ULN2003LV Product Page
43	12	U7, U8, U9, U10, U11, U12, U13, U14		TPD1E10B06DPYT	Texas Instruments	TPD1E10B06DPYT		DPY0002A_N	TPD1E10B06 Product Page
44	3	R56, R57, R58	0		Vishay Dale	CRCW08050000Z0EA		0805	Digikey Product Folder