

Bill of Materials

TI DESIGNS

TIDM-METROLOGY-HOST

Item	Qty	Reference	Value	Part Description	Digikey Part Number
1	1	S4	Switch	Push button Switch	P8006S-ND
2	1	C38	4.7uF / 400V	Capacitor	565-1411-ND
3	1	RS-232	9-pin connector	DB-9 Connector	A32115-ND
4	7	ACT, DGND2, DVCC2, REACT,HDR1, HDR2, JMP1	2-pin Jumper header	Jumper header	609-3296-ND Break and use.
5	4	JTG_PWR1, JTG_PWR2, PWR1, PWR2	3-pin Jumper header	Jumper header	609-3296-ND Break and use.
6	2	DGND1, DVCC1	4-pin Jumper header	Jumper header	609-3296-ND Break and use.
7	2	COMMS, COMMS_APP	4x2 8-pin header	Jumper header	609-3296-ND Break and use.
8	1	LED1	Light Emitting Diode	LED	511-1256-1-ND
9	1	LED2	Light Emitting Diode	LED	511-1254-1-ND
10	2	JTAG1, JTAG2	14-pin Connector	JTAG Connector	MHB14K-ND
11	2	RF3, RF4	20-pin Connector	RF Connector	TFM-110-02-SM-D-A-K
12	1	USB2	USB Connector	USB_RECEPTACLE	WM17113-ND
13	1	ZD1	3.6V	Zener Diode	DNP
14	20	R4, R15, R24, R26, R34, R77, R78, R79, R80, R81, R82, R83, R84, R85, R86, R87, R105, R106, R107, R108	0Ω	Resistor 0603	P0.0GCT-ND
15	16	C1, C2, C6, C8, C10, C12, C21, C25, C26, C35, C37, C43, C45, C50, C52, C55	0.1uF	Capacitor 0603	311-1366-1-ND
16	2	C53, C54	0.1uF	Capacitor 0805	445-1349-1-ND
17	1	R53	1.5kΩ	Resistor 0603	P1.5KGCT-ND
18	1	R31	1.5kΩ	Resistor 0805	RMCF0805JT1K50CT-ND
19	9	R17, R18, R20, R21, R47, R72, R73, R75, R76	1kΩ	Resistor 0603	P1.0KGCT-ND

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20	2	R29, R36	1kΩ	Resistor 0805	P1.0KACT-ND
21	1	R25	1MΩ	Resistor 0603	P1.0MGCT-ND
22	8	D22, D23, D24, D25, D26, D27, D28, D29	1N4148	Diode	568-1749-1-ND
23	1	R6	1.4kΩ	Resistor 0603	P1.40KHCT-ND
24	2	L5, L6	EXC-ML20A390U	Inductor	P10191CT-ND
25	2	C24, C27	2.2nF	Capacitor 0603	478-6210-1-ND
26	2	R39, R40	2.2kΩ	Resistor 0805	P2.2KGCT-ND
27	1	ZD2	5.1V	Zener Diode	568-4874-1-ND
28	1	C42	4.7uF	Capacitor 0603	490-3302-1-ND
29	2	R16, R19	6.8Ω	Resistor 0603	P6.8GCT-ND
30	2	R2, R3	10Ω	Resistor 0603	P10GCT-ND
31	2	C39, C40	10pF	Capacitor 0603	490-1403-1-ND
32	11	C5, C7, C9, C11, C15, C20, C22, C32, C44, C51, C23	10uF	Polarized Capacitor	399-3685-1-ND
33	4	C16, C19, C28, C29	12pF	Capacitor 0603	445-1270-1-ND
34	3	C30, C34, C41	15nF	Capacitor 0603	445-5102-1-ND
35	2	R7, R35	27Ω	Resistor 0603	P27GCT-ND
36	1	R9	33kΩ	Resistor 0603	P33KGCT-ND
37	2	R61, R14	47kΩ	Resistor 0603	P47KGCT-ND
38	8	C13, C14, C17, C18, C31, C33, C47, C48	47pF	Capacitor 0603	445-1277-1-ND
39	1	R50	100Ω	Resistor 0603	P100GCT-ND
40	1	C36	150uF	Polarized Capacitor	P12917-ND
41	3	R38, R41, R44	330kΩ	Resistor 0603	P330KHCT-ND
42	1	C49	470nF / 300V~	Polarized Capacitor	P12275-ND
43	1	R22	470Ω / 5W	Resistor	45J470E-ND
44	1	C4	2200uF	Polarized Capacitor	P5128-ND
45	4	L15, L16, L17, L18	BLM21BD121SN1D	Inductor	490-1044-1-ND
46	1	U\$2	CUI_XR	Power supply module	102-1801-ND
47	1	U1	F66XX---PZ100	MSP430F6638 100-pin	TI chip
48	1	Q1	HCTC_XTL_4	HF Crystal	887-1002-ND
49	1	ISO1	ISO7420	8-pin DW Isolator chip	296-28742-1-ND
50	2	ISO2, ISO3	ISO7421	8-pin DW Isolator chip	296-28426-ND
51	6	D1, D2, D3, D4, D7, D10	LL103A	Diode	LLSD103ADICT-ND
52	1	U\$1	MSP430AFE_24TSSOP	MSP430AFE 24-pin TSSOP	TI chip
53	2	U2, U5	PS8802	8-pin TSSOP	PS8802-1-F3-AXCT-ND
54	2	R1, R5	S20K275	Varistor	495-1417-ND
55	1	LCD1	SBLCDA4	LCD Display	ACD Will provide

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56	1	ZD3	SMAJ5.0ABCT	Diode	SMAJ5.0ABCT-ND
57	2	D32, D33	SMAJ5.0CA	Diode	SMAJ5.0CABCT-ND
58	2	OK1, OK2	PS2501-1-A	4-pin Isolator chip	PS2501-1A-ND
59	1	IC7	TPD4E004	6-pin Chip	296-23618-1-ND
60	1	IC3	TPS77033	6-pin Chip	296-11051-1-ND
61	1	XT1	XT1	LF Crystal	300-8341-1-ND
62	1	XT2	XT2	HF Crystal	887-1233-ND
63	1	R23	DNP	Resistor 0805	DNP
64	1	R37	68 Ω	Resistor 0805	P68ACT-ND
65	1	R27	DNP	Resistor 0805	DNP
66	1	R30	10k Ω	Resistor 0805	P10KACT-ND
67	1	R32	220 Ω	Resistor 0805	P220ACT-ND
68	1	C46	470nF	Capacitor 0603	445-3456-1-ND
69	1	R33	DNP	Resistor 0603	DNP
70	1	R28	DNP	Resistor 0603	DNP
71	2	T1, T2	BC860B/BC857B	BC857ASMD	BC857B-TPMSCT-ND

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