

TIDM-02006 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPC B1	1		TIDM-02006	Any	Printed Circuit Board	
2	C1, C3, C8, C9	4	10uF	GRM21BR6YA106KE43L	MuRata	CAP, CERM, 10 uF, 35 V, +/- 10%, X5R, 0805	0805
3	C2, C5, C6	3	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1 uF, 25 V, +/- 5%, X7R, 0603	0603
4	C4, C7	2	1uF	C1608X7R1E105K080AE	TDK	CAP, CERM, 1 uF, 25 V, +/- 10%, X7R, 0603	0603
5	C10	1	15pF	04025A150FAT2A	AVX	CAP, CERM, 15 pF, 50 V, +/- 1%, C0G/NP0, 0402	0402
6	C11, C12	2	2.2uF	C1005X7S1A225K050BC	TDK	CAP, CERM, 2.2 uF, 10 V, +/- 10%, X7S, 0402	0402
7	C13, C14, C17, C18, C19	5	0.1uF	EMK105B7104KV-F	Taiyo Yuden	CAP, CERM, 0.1 uF, 16 V, +/- 10%, X7R, 0402	0402
8	C15, C16	2	0.1uF	LMK105BJ104KV-F	Taiyo Yuden	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X5R, 0402	0402
9	D1, D2	2		RB168MM-40TR	Rohm	DIODE SCHOTTKY 40V 1A PMDU	SOD-123FL-2
10	D3, D4	2	Red	150080SS75000	Würth Elektronik	LED, Red, SMD	LED_0805
11	D5	1	Green	LTST-C171GKT	Lite-On	LED, Green, SMD	0805 LED
12	D6	1	Blue	LTST-C170TBKT	Lite-On	LED, Blue, SMD	LED_0805
13	D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19	12	7V	CDSOT23-SM712	Bourns	Diode, TVS, Bi, 7 V, SOT-23	SOT-23
14	J1	1		SSQ-105-03-G-D	Samtec	CONN RCPT .100" 10POS DUAL GOLD	CONN_RCPT_HDR_PTH_10
15	J2	1		SQT-105-03-L-D	Samtec	Receptacle, 2mm, 5x2, Gold, TH	Receptacle, 2mm, 5x2, TH
16	J3, J4	2		SSQ-110-03-T-D	Samtec	Receptacle, 2.54mm, 10x2, Tin, TH	Receptacle, 2.54mm, 10x2, TH
17	J5, J7, J10	3		61300311121	Würth Elektronik	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
18	J6	1		TSM-102-01-L-DV	Samtec	Header, 2.54mm, 2x2, Gold, SMT	Header, 2.54mm, 2x2, SMT
19	J8	1		629105150521	Würth Electronics	USB - micro B USB 2.0 Receptacle Connector 5 Position Surface Mount, Right Angle; Through Hole	CONN_USB_8MM0_6MM6
20	J11, J12, J13, J14, J15, J16	6		61300511121	Würth Elektronik	Header, 2.54mm, 5x1, Gold, TH	Header, 2.54mm, 5x1, TH
21	J18, J19, J20, J21	4		615008185121	Würth Electronics	WR-MJ Modular Jack Horizontal Shielded Low Profile w. LED 8P8C Tab Up	CONN_JACK_MODULAR
22	L1	1	100 ohm	742792620	Würth Elektronik	Ferrite Bead, 100 ohm @ 100 MHz, 0.5 A, 0603	0603
23	LBL1	1		THT-14-423-10	Brady	Thermal Transfer Printable Labels, 0.650" W x 0.200" H - 10,000 per roll	PCB Label 0.650 x 0.200 inch
24	M1, M2, M3, M4, M5, M6, M7, M8, M9, M10	10		60900213421	Würth Elektronik	Shunt, 2.54mm, Gold, Black	Shunt, 2.54mm, Black
25	R1, R17, R18, R19, R28, R29, R37, R38, R46, R47	10	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
26	R2	1	51.0k	ERJ-2RKF5102X	Panasonic	RES, 51.0 k, 1%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
27	R3, R4	2	680	CRCW0402680RJNED	Vishay-Dale	RES, 680, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
28	R5	1	30.0k	CRCW040230K0FKED	Vishay-Dale	RES, 30.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
29	R6, R7	2	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
30	R9, R25, R34, R43	4	1.00k	ERA2AED102X	Panasonic	RES, 1.00 k, 0.5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
31	R10, R11, R12, R13, R20, R21, R22, R23, R31, R32, R40, R41, R49, R50	14	10.0k	AC0402FR-0710KL	Yageo America	RES, 10.0 k, 1%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
32	R14, R15, R16	3	100	ERJ-2RKF1000X	Panasonic	RES, 100, 1%, 0.1 W, 0402	0402
33	R26, R27, R35, R36, R44, R45	6	10.0	RK73H1ETTP10R0F	KOA Speer	RES, 10.0, 1%, 0.063 W, 0402	0402
34	R30, R39, R48	3	100	ERJ-2GEJ101X	Panasonic	RES, 100, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
35	R51	1	0	ERJ-6GEY0R00V	Panasonic	RES, 0, 5%, 0.125 W, AEC-Q200 Grade 0, 0805	0805
36	T1	1	72uH	750316028	Würth Elektronik	Transformer, 72 uH, SMT	9.25x8.3mm
37	TP1, TP2	2		S1751-46	Harwin	Test Lead clips and hooks, SMT	Test Point, Body 3.25x1.65mm
38	U1	1		TPS77833DR	Texas Instruments	Single Output Fast Transient Response LDO, 750 mA, Fixed 3.3 V Output, 2.7 to 10 V Input, with Power Good Output, 8-pin SOIC (D), -40 to 125 degC, Green (RoHS & no Sb/Br)	D0008A
39	U2	1		SN6505BDBVR	Texas Instruments	Low-Noise 1 A, 420 kHz Transformer Driver, DBV0006A (SOT-23-6)	DBV0006A
40	U3	1		TPS79601DRBR	Texas Instruments	Single Output High PSRR LDO, 1 A, Adjustable 1.2 to 5.5 V Output, 2.7 to 5.5 V Input, 8-pin SON (DRB), -40 to 125 degC, Green (RoHS & no Sb/Br)	DRB0008B
41	U4	1		ISO7763DBQR	Texas Instruments	High Speed, Robust EMC, Reinforced Six-Channel Digital Isolator, DBQ0016A (SSOP-16)	DBQ0016A
42	U5	1		DSLVD51047PWR	Texas Instruments	3-V LVDS Quad CMOS Differential Line Driver, PW0016A (TSSOP-16)	PW0016A
43	U6	1		DSLVD51048PWR	Texas Instruments	3-V LVDS Quad CMOS Differential Line Receiver, PW0016A (TSSOP-16)	PW0016A
44	U7, U8, U9	3		THVD1452DGS	Texas Instruments	3.3-V to 5-V RS-485 Transceivers With +/-18-kV IEC ESD Protection, DGS0010A (VSSOP-10)	DGS0010A
45	C20	0	0.01uF	C1812C103KDRACU	Kemet	CAP, CERM, 0.01 uF, 1000 V, +/- 10%, X7R, 1812	1812
46	C21	0	220uF	EEE-FC1H221P	Panasonic	CAP, AL, 330 uF, 50 V, +/- 20%, 0.12 ohm, SMD	SMT Radial G
47	C22, C23	0	10uF	GRM32DR71E106KA12L	MuRata	CAP, CERM, 10 uF, 25 V, +/- 10%, X7R, 1210	1210
48	D7	0	30V	B130AF-13	Diodes Inc.	Diode, Schottky, 30 V, 1 A, SMAF	SMAF
49	FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
50	J9	0		691 101 710 002	Würth Elektronik	Terminal Block, 5 mm, 2x1, Tin, TH	Terminal Block, 5 mm, 2x1, TH
51	J17	0		61300211121	Würth Elektronik	Header, 2.54 mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
52	R8, R24, R33, R42	0	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402

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