

TIDA-00851-LDC0851 REV E1 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB1	1		TIDA-00851-LDC0851	Any	Printed Circuit Board	
2	B1	1	5 V	AFB0605LB	Delta Electronics Inc.	5 DC axial fan, 60 x 60 x 15 MM	60x60x15mm
3	C1, C5, C18, C19, C20	5	0.1uF	GRM155R71C104JA88D	Murata Electronics North America	CAP CER 0.1UF 16V 5% X7R 0402	0402
4	C2, C21	2	10uF	C1608X5R1A106M	TDK	CAP, CERM, 10uF, 10V, +/-20%, X5R, 0603	0603
5	C3, C6, C7	3	2.2uF	C0603C225K8PACTU	Kemet	CAP, CERM, 2.2uF, 10V, +/-10%, X5R, 0603	0603
6	C4	1	22uF	C2012X5R1C226K125AC	TDK	CAP, CERM, 22uF, 16V, +/-10%, X5R, 0805	0805
7	C8	1	0.1uF	C1005X7R1H104K	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0402	0402
8	C9	1	1uF	C0603C105K4PACTU	Kemet	CAP, CERM, 1 uF, 16 V, +/- 10%, X5R, 0603	0603
9	C11, C12	2	18pF	GRM1885C2A180JA01D	MuRata	CAP, CERM, 18pF, 100V, +/-5%, C0G/NP0, 0603	0603
10	C13, C16	2	220nF	C1005X7R1A224K050BB	TDK Corporation	CAP, CERM, 220nF, 10V, 10%, X7R, 0402	0402
11	C14	1	0.47uF	GRM155C80J474KE19D	MuRata	CAP, CERM, 0.47 uF, 6.3 V, +/- 10%, X6S, 0402	0402
12	C15	1	2200pF	C0603X222K5RACTU	Kemet	CAP, CERM, 2200pF, 50V, +/-10%, X7R, 0603	0603
13	CSENSOR	1	47pF	GRM1885C1H470FA01J	MuRata	CAP, CERM, 47 pF, 50 V, +/- 1%, C0G/NP0, 0603	0603
14	D1	1	5.6V	MMSZ5232B-7-F	Diodes Inc.	Diode, Zener, 5.6V, 500mW, SOD-123	SOD-123
15	D2, D4	2	Green	LG L29K-G2J1-24-Z	OSRAM	LED, Green, SMD	1.7x0.65x0.8mm
16	D3	1	Red	SML-LX0603SRW-TR	Lumex	LED, Super Red, SMD	LED, 1.6x.6x.8mm
17	GND1, GND2	2	SMT	5015	Keystone	Test Point, Miniature, SMT	Testpoint_Keystone_Miniature
18	H9, H10, H11, H12	4		SJ-5303 (CLEAR)	3M	Bumpon, Hemisphere, 0.44 X0.20, Clear	Transparent Bumpon
19	J1	1		ZX62R-B-5P	Hirose Electric Co. Ltd.	Connector, Receptacle, Micro-USB Type B, SMT	Connector USB Mini B
20	J3, J4	2		310-87-107-41-001101	Preci-Dip	Receptacle, 100mil, 7x1, Gold, TH	Receptacle, 100mil, 7x1, TH
21	J5	1		1729018	Phoenix Contact	TERM BLOCK 2POS 5mm, TH	10x10x8.1 mm
22	L1	1	10uH	VLS201610ET-100M	TDK	Inductor, Shielded, Ferrite, 10 uH, 0.4 A, 1.38 ohm, SMD	2.0x0.95x1.6mm
23	R1	1	1.5K	CRCW04021K50JNED	Vishay Dale	RES 1.5K OHM 1/16W 5% 0402 SMD	0402
24	R2, R3	2	10.0	CRCW040210R0FKED	Vishay-Dale	RES, 10.0, 1%, 0.063 W, 0402	0402
25	R4	1	1M	RC0402JR-071ML	Yageo	RES,1M ohm, 5%, 0.063W, 0402	0402
26	R5	1	33	CRCW060333R0JNEA	Vishay-Dale	RES, 33 ohm, 5%, 0.1W, 0603	0603
27	R6	1	36.0k	RC0603FR-0736KL	Yageo America	RES, 36.0 k, 1%, 0.1 W, 0603	0603
28	R7, R20	2	12.0k	RC0603FR-0712KL	Yageo America	RES, 12.0 k, 1%, 0.1 W, 0603	0603
29	R8	1	25K ohm	296XD253B1N	CTS Electrocomponents	Trimmer, 25K ohm, 0.15W, TH	6.3x12.5mm
30	R9, R11, R18	3	1.0k	CRCW04021K00JNED	Vishay-Dale	RES, 1.0k ohm, 5%, 0.063W, 0402	0402
31	R10, R12	2	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.063 W, 0402	0402
32	R14	1	33k	CRCW040233K0JNED	Vishay-Dale	RES, 33k ohm, 5%, 0.063W, 0402	0402
33	R15	1	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
34	R16	1	4.75k	CRCW06034K75FKEA	Vishay-Dale	RES, 4.75k ohm, 1%, 0.1W, 0603	0603
35	R17	1	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.1 W, 0603	0603
36	R21	1	24.0	RC0603FR-0724RL	Yageo America	RES, 24.0, 1%, 0.1 W, 0603	0603
37	U1	1		LP5951MG-3.3/NOPB	Texas Instruments	Micropower, 150mA Low-Dropout CMOS Voltage Regulator, 5-pin SC-70, Pb-Free	MAA05A
38	U2	1		TPD2E001DRLR	Texas Instruments	Low-Capacitance + / - 15 kV ESD-Protection Array for High-Speed Data Interfaces, 2 Channels, -40 to +85 degC, 5-pin SOT (DRL), Green (RoHS & no Sb/Br)	DRL0005A
39	U3	1		LP38693SD-ADJ/NOPB	Texas Instruments	500mA Low Dropout CMOS Linear Regulators with Adjustable Output Stable with Ceramic Output Capacitors, 6-pin LLP, Pb-Free	SDE06A
40	U4	1		MSP430F5528IRGC	Texas Instruments	Mixed Signal MicroController, RGC0064B	RGC0064B
41	U5	1		LDC0851DSGR	Texas Instruments	1.8-3.3V Inductive Switch, DSG0008A	DSG0008A
42	U6	1		EA DIPS082-HNLED	Electronic Assembly	LCD-Modul with Led Backlight Yellow/Green, 2X8, TH	LCD Module, 40x20mm
43	Y1	1		ABM8-24.000MHZ-B2-T	Abrakon Corporation	Crystal, 24.000MHz, 18pF, SMD	3.2x0.8x2.5mm
44	C10	0	0.1uF	C1005X7R1H104K	TDK	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, 0402	0402
45	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
46	J2	0		HTSW-103-07-G-S	Samtec	Header, 100mil, 3x1, Gold, TH	Header, 100mil, 3x1, TH
47	R13	0	49.9k	RT0603BRD0749K9L	Yageo America	RES, 49.9 k, 0.1%, 0.1 W, 0603	0603
48	R19	0	0	ERJ-2GE0R00X	Panasonic	RES, 0, 5%, 0.063 W, 0402	0402

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