

TIDA-00662 REV V1.0 Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB	1		TIDA-00662	Any	Printed Circuit Board	
2	+3.3V, +5V	2	Red	5000	Keystone	Test Point, Miniature, Red, TH	Red Miniature Testpoint
3	C21	1	10nF	885012205031	Würth Elektronik	CAP, CER.M, 0.01 µF, 16 V, +/- 10%, X7R, 0402	0402
4	C22, C23, C25	3	0.1uF	885012206046	Würth Elektronik	CAP, CER.M, 0.1 µF, 16 V, +/- 10%, X7R, 0603_095	0603_095
5	C24, C215	2	4.7uF	885012207025	Würth Elektronik	CAP, CER.M, 4.7 µF, 10 V, +/- 10%, X7R, 0805	0805
6	C28	1	680nF	885012206051	Würth Elektronik	CAP, CER.M, 680 nF, 16V, +/- 10%, X7R, 0603_095	0603_095
7	C100, C103, C105, C107, C108, C110, C111, C113, C200, C209, C210, C211, C216, C217	14	0.1uF	885012205037	Würth Elektronik	CAP, CER.M, 0.1 µF, 16 V, +/- 10%, X7R, 0402	0402
8	C101, C102, C104, C112	4	1uF	885012206052	Würth Elektronik	CAP, CER.M, 1 µF, 16 V, +/- 10%, X7R, 0603_095	0603_095
9	C106	1	1uF	08055C105KAT2A	AVX	CAP, CER.M, 1 µF, 50 V, +/- 10%, X7R, 0805	0805
10	C109	1	2.2uF	0805YD225KAT2A	AVX	CAP, CER.M, 2.2 µF, 16 V, +/- 10%, X5R, 0805	0805
11	C114	1	47nF	885012205035	Würth Elektronik	CAP, CER.M, 47 nF, 16 V, +/- 10%, X7R 0402	0402
12	C201, C202	2	15pF	885012005056	Würth Elektronik	CAP, CER.M, 15 pF, 50 V, +/- 5%, COG/NP0, 0402	0402
13	C203, C208, C212	3	0.22uF	885012206048	Würth Elektronik	CAP, CER.M, 0.22 µF, 16 V, +/- 10%, X7R, 0603_095	0603_095
14	C204	1	470nF	885012206050	Würth Elektronik	CAP, CER.M, 470 nF, 16 V, +/- 10%, X7R, 0603_095	0603_095
15	C205	1	2200pF	885012205027	Würth Elektronik	CAP, CER.M, 2200 pF, 16 V, +/- 10%, X7R, 0402	0402
16	C206, C207	2	10pF	885012005025	Würth Elektronik	CAP, CER.M, 10 pF, 16 V, +/- 5%, COG/NP0, 0402	0402
17	C213, C214	2	33pF	885012005043	Würth Elektronik	CAP, CER.M, 33 pF, 25 V, +/- 5%, COG/NP0, 0402	0402
18	Ch1, Ch2, IO1, LOL, LOR, MCLK, MISO, SCLK, VRef	9	White	5002	Keystone	Test Point, Miniature, White, TH	White Miniature Testpoint
19	D1	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
20	GND1, GND2	2	Black	5011	Keystone	Test Point, Multipurpose, Black, TH	Black Multipurpose Testpoint
21	J1, J2	2		1990012	Phoenix Contact	Terminal Block, 2.5mm, 3 Pos, TH	Terminal Block, 2.5mm, 3 Pos, TH
22	J4, J5	2		SSW-110-23-F-D	Samtec	Connector, Receptacle, 100mil, 10x2, Gold plated, TH	10x2 Receptacle
23	J6	1		N2514-6002-RB	3M	Header (shrouded), 100mil, 7x2, Gold, TH	7x2 Header
24	J7	1		629105136821	Würth Elektronik	USB 2.0 TYPE B, R/A, SMT	USB 2.0 TYPE B, R/A, SMT
25	JP1, JP2, JP11, JP12, JP13, JP21, JP22, JP23, JP51, JP52	10		61300211121	Würth Elektronik	Header, 2.54 mm, 2x1, Gold, TH	Header, 2.54mm, 2x1, TH
26	JP31, JP32, JP53, JP61, JP62, JP63	6		61300311121	Würth Elektronik	Header, 2.54 mm, 3x1, Gold, TH	Header, 2.54mm, 3x1, TH
27	L1	1		744232090	Würth Elektronik	Coupled inductor, A, 0.3 ohm, +/- 25%, SMD	3.2x1.6mm
28	L2, L3	2	600 ohm	742782851	Würth Elektronik	Ferrite Bead, 600 ohm @ 100 MHz, 1 A, 0603	0603
29	LED1, LED2, LED3	3	Red	150120RS75000	Würth Elektronik	LED, Red, SMD	3.2x1.6mm
30	R20, R203, R207	3	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
31	R100	1	51	CRCW040251R0JNED	Vishay-Dale	RES, 51, 5%, 0.063 W, 0402	0402
32	R101, R111	2	150k	CMF50150K00FHED	Vishay-Dale	RES, 150 k, 1%, 0.25 W, TH	1/4W Resistor
33	R102, R112	2	100k	CRCW0805100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.125 W, 0805	0805
34	R103, R113	2	200k	CRCW0805200KFKEA	Vishay-Dale	RES, 200 k, 1%, 0.125 W, 0805	0805
35	R104, R105	2	4.7k	CRCW04024K70JNED	Vishay-Dale	RES, 4.7 k, 5%, 0.063 W, 0402	0402
36	R106	1	2.00k	CRCW04022K00FKED	Vishay-Dale	RES, 2.00 k, 1%, 0.063 W, 0402	0402
37	R200, R201	2	2.7k	CRCW04022K70JNED	Vishay-Dale	RES, 2.7 k, 5%, 0.063 W, 0402	0402
38	R202	1	47k	CRCW040247K0JNED	Vishay-Dale	RES, 47 k, 5%, 0.063 W, 0402	0402
39	R204, R206	2	27	CRCW040227R0JNED	Vishay-Dale	RES, 27, 5%, 0.063 W, 0402	0402
40	R205	1	1.40k	CRCW04021K40FKED	Vishay-Dale	RES, 1.40 k, 1%, 0.063 W, 0402	0402
41	R208	1	1.00Meg	CRCW06031M00FKEA	Vishay-Dale	RES, 1.00 M, 1%, 0.1 W, 0603	0603
42	R209	1	100	CRCW0402100RFKED	Vishay-Dale	RES, 100, 1%, 0.063 W, 0402	0402
43	S1, S2, S3, S4	4		TL1015AF160QG	E-Switch	Switch, Tactile, SPST-NO, 0.05A, 12V, SMT	Switch, 4.4x2x2.9 mm
44	U1	1		TLV320AIC3254IRHB	Texas Instruments	Ultra Low Power Stereo Audio Codec With Embedded miniDSP, RHB0032E	RHB0032E
45	U2	1		MSP430F5529IPN	Texas Instruments	25 MHz Mixed Signal Microcontroller with 128 KB Flash, 8192 B SRAM and 63 GPIOs, -40 to 85 degC, 80-pin QFP (PN), Green (RoHS & no Sb/Br)	PN0080A
46	U5	1		TPS73633DBV	Texas Instruments	Cap-Free, NMOS, 400mA Low-Dropout Regulator with Reverse Current Protection, DBV0005A	DBV0005A
47	U101	1		OPA317IDBV	Texas Instruments	Low-Offset, Rail-to-Rail I/O Operational Amplifier, DBV0005A	DBV0005A
48	U102	1		OPA2376AIDGKR	Texas Instruments	Precision, Low Noise, Low Quiescent Current Operational Amplifier, 2 to 5.5 V, -40 to 125 degC, 8-pin SOP (DGK0008A), Green (RoHS & no Sb/Br)	DGK0008A
49	U103	1		OPA376AIDCKR	Texas Instruments	Precision, Low Noise, Low Iq Operational Amplifier, 2.2 to 5.5 V, -40 to 125 degC, 5-pin SOT23 (DCK0005A), Green (RoHS & no Sb/Br)	DCK0005A
50	U200	1		24FC1025T-I/SN	Microchip	IC, EEPROM, 512kB, 1MHz, SOIC-8	SOIC-8
51	Y101	1		MS3V-T1R 32.768KHZ +/-20PPM 12.5PF	Micro Crystal AG	Crystal, 32.768kHz, 12.5pF, SMD	1.4x1.4x5.0mm SMD
52	Y102	1		7M-12.000MAA-J-T	TXC Corporation	Crystal, 12.000MHz, 18pF, SMD	3.20x0.70x2.50mm
53	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial

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