

## TIDA-010077 REV E1 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB	1		TIDA-010077	Any	Printed Circuit Board	
C1, C2, C13	3	1uF	GRM155R61A105KE15D	MuRata	CAP, CERM, 1 uF, 10 V, +/- 10%, X5R, 0402	0402
C3, C4, C6, C8, C10	5	0.1uF	C0402C104K8RACTU	Kemet	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
C5	1	100pF	04025A101FAT2A	AVX	CAP, CERM, 100 pF, 50 V, +/- 1%, C0G/NP0, 0402	0402
C7, C9, C11	3	10uF	C0805C106M8PACTU	Kemet	CAP, CERM, 10 uF, 10 V, +/- 20%, X5R, 0805	0805
C12	1	1000pF	C0402C102J3RACTU	Kemet	CAP, CERM, 1000 pF, 25 V, +/- 5%, X7R, 0402	0402
D1, D2, D3	3	Red	LTD-6910HR	Lite-On	LED, Red, TH	25x19.05mm
J1, J3	2		GRPB041VWCN-RC	Sullins Connector Solutions	Header, 50mil, 4x1, Gold, R/A, TH	4x1 R/A Header
J2	1		FTS-107-01-F-S	Samtec	Header, 1.27mm, 7x1, Gold, TH	Header, 1.27 mm, 7x1, TH
J4	1		ZX62R-B-5P(30)	Hirose Electric Co. Ltd.	Connector, Receptacle, Micro-USB Type B, Top Mount SMT	Connector USB Mini
L1, L2	2		MMZ1005S182ET000	TDK	Inductor, Ferrite Bead, Ferrite, 0.2 A, 2.1 ohm, SMD	1x0.5mm
LS1	1	2.7kHz	CMI-9653S-SMT-TR	CUI Inc.	DC Buzzer Single Tone 2.7kHz Magnetic 2 to 5V , SMD	9.6x9.6mm
P1	1				Header, 2-Pin	
Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8	8	50 V	RN2314	Toshiba	Transistor, PNP, 50 V, 0.1 A, SOT-323	SOT-323
R1, R3	2	47.0k	RC0402FR-0747KL	Yageo America	RES, 47.0 k, 1%, 0.0625 W, 0402	0402
R2	1	470	RC0402FR-07470RL	Yageo America	RES, 470, 1%, 0.063 W, 0402	0402
R4, R5	2	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
U1	1		MSP430FR2476TRHB	Texas Instruments	Mixed-Signal Microcontroller, RHB0032E (VQFN-32)	RHB0032E
U2	1		TLV70233DBVR	Texas Instruments	Single Output LDO, 300 mA, Fixed 3.3 V Output, 2 to 5.5 V Input, with Low IQ, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	DBV0005A
U3	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
U4	1		TLC59282DBQ	Texas Instruments	16-Channel Constant Current LED Driver with 4-Channel Grouped Delay, 3 to 5.5 V, -40 to 85 degC, 24-pin SOP (DBQ24), Green (RoHS & no Sb/Br)	DBQ0024A