

TIDA-01632 REV E3 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
I PCB1	1		TIDA-01632	Any	Printed Circuit Board	
C1	1	2.2uF	GCM188R70J225KE22D	MuRata	CAP, CERM, 2.2 uF, 6.3 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C2	1	0.1uF	06035C104KAZ2A	AVX	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0603	0603
C3	1	10uF	UMK325AB7106KMHT	Taiyo Yuden	CAP, CERM, 10 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 1210	1210
C4, C6	2	0.1uF	GCM155R71H104KE02D	MuRata	CAP, CERM, 0.1 uF, 50 V, +/- 10%, X7R, AEC-Q200 Grade 1, 0402	0402
C5	1	220pF	GRM155R72A221KA01D	MuRata	CAP, CERM, 220 pF, 100 V, +/- 10%, X7R, 0402	0402
C7, C8, C9, C10, C12, C13, C26	7	0.1uF	CL05B104KP5NNNC	Samsung Electro-Mechanics	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
C11, C14	2	10uF	GRM188Z71A106MA73D	MuRata	CAP, CERM, 10 uF, 10 V, +/- 20%, X7R, 0603	0603
C15, C16, C18, C19, C21	5	12pF	GRM1555C1H120JA01D	MuRata	CAP, CERM, 12 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C17	1	6.8pF	GRM1555C1H6R8CA01D	MuRata	CAP, CERM, 6.8 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C20, C23, C25	3	1pF	GRM1555C1H1R0CA01D	MuRata	CAP, CERM, 1 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C24	1	1uF	GRM188R71A105KA61D	MuRata	CAP, CERM, 1 uF, 10 V, +/- 10%, X7R, 0603	0603
D1	1	200V	BAS20HT1G	ON Semiconductor	Diode, Switching, 200 V, 0.2 A, AEC-Q101, SOD-323	SOD-323
D3	1	39V	SM6T39CA	STMicroelectronics	Diode, TVS, Bi, 39 V, SMB	SMB
D4	1	Green	SML-P12PTT86	Rohm	LED, Green, SMD	LED, 1x.2x.6mm
D5	1	Blue	SMLP12BC7TT86	Rohm	LED, Blue, SMD	Blue LED
D6	1	Yellow	SML-P12YTT86	Rohm	LED, Yellow, SMD	Yellow LED
D7	1	Orange	SML-P12DTT86	Rohm	LED, Orange, SMD	Orange LED
D8	1	Red	SML-P12VTT86	Rohm	LED, Red, SMD	LED, 1x.2x.6mm
J1	1		1770898	Phoenix Contact	Terminal Block, 3 Pos, 2.5mm, R/A, TH	Terminal Block, 3 Pos, 2.5mm, R/A, TH
J2	1		PEC06SAAN	Sullins Connector Solutions	Header, 100mil, 6x1, Tin, TH	TH, 6-Leads, Body 608x100mil, Pitch 100mil
J3	1		FTSH-105-01-F-DV-K	Samtec	Header (Shrouded), 1.27mm, 5x2, Gold, SMT	Header(Shrouded), 1.27mm, 5x2, SMT
L1	1	1500 ohm	BLM18HE152SN1D	MuRata	Ferrite Bead, 1500 ohm @ 100 MHz, 0.5 A, 0603	0603
L2	1	10uH	CKS2125100M-T	Taiyo Yuden	Inductor, Multilayer, Ferrite, 10 uH, 0.11 A, 0.52 ohm, SMD	0805
L3, L6	2	2.4nH	LQG15HS2N4S02D	MuRata	Inductor, Multilayer, Air Core, 2.4 nH, 0.3 A, 0.15 ohm, SMD	0402 polarized
L4, L5	2	2nH	LQG15HS2N0S02D	MuRata	Inductor, Multilayer, Air Core, 2 nH, 0.3 A, 0.1 ohm, SMD	0402 polarized
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
R1	1	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R2	1	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R5, R13	2	100k	ERJ-2GEJ104X	Panasonic	RES, 100 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0402	0402
R6, R7	2	1.0k	CRCW06031K00JNEA	Vishay-Dale	RES, 1.0 k, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
R8	1	220	CRCW0402220RJNED	Vishay-Dale	RES, 220, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R9	1	130	CRCW0402130RJNED	Vishay-Dale	RES, 130, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R10, R11	2	470	CRCW0402470RJNED	Vishay-Dale	RES, 470, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
R12	1	430	CRCW0402430RJNED	Vishay-Dale	RES, 430, 5%, 0.063 W, AEC-Q200 Grade 0, 0402	0402
S1	1		B3U-1100P	Omron Electronic Components	Switch, SPST-NO, Off-Mom, 12 V, SMD	SMD, 3-Leads, Body 3x2.5mm
U1	1		TPS7B8233QDGNRQ1	Texas Instruments	300mA High-Voltage Ultra-Low-Iq Low-Dropout (LDO) Regulator, DGN0008D (VSSOP-8)	DGN0008D
U2	1		TLIN1029DRBRQ1	Texas Instruments	Local Interconnect Network (LIN) Transceiver with Dominant State Timeout, DRB0008F (VSON-8)	DRB0008F

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
U3	1		CC2640R2FTWRGZRQ1	Texas Instruments	Automotive Qualified SimpleLink Bluetooth low energy Wireless MCU, RGZ0048N (VQFN-48)	RGZ0048N
U4	1		SKYA21001	Skyworks Solutions	20 MHz to 3.0 GHz SPDT Switch, SOT-363	SOT-363
Y1	1		TSX-3225 24.0000MF20G-AC3	Epson	Crystal, 24 MHz, 9 pF, SMD	SMD, 4-Leads, Body 2.65x3.35mm, Height 0.6mm
Y2	1		ST3215SB32768C0HSZA1	Kyocera	Crystal, 32.768 KHz, 20 ppm, SMD	3.2x1.5mm
C22	0	1pF	GRM1555C1H1R0CA01D	MuRata	CAP, CERM, 1 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
D2	0	100V	1N4148W-TP	Micro Commercial Component	Diode, Switching, 100 V, 0.15 A, SOD-123	SOD-123
FID1, FID2, FID3, FID4, FID5, FID6	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	N/A
R3, R4	0	2.00k	RC1206FR-072KL	Yageo America	RES, 2.00 k, 1%, 0.25 W, 1206	1206

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