

## TIDA-00204 REV E3 Bill of Materials

Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
!PCB1	1		TIDA-00204	Any	Printed Circuit Board	
C1, C2, C3, C17, C18, C36, C40, C45, C63, C67, C72, C80, C81, C86, C88, C89, C90, C104, C107, C110, C113, C116, C126, C131, C148, C149, C170, C171, C185, C202, C211, C212, C225, C226, C227, C231, C232	37	10uF	C1608X5R1E106M080AC	TDK	CAP, CERM, 10 µF, 25 V, +/- 20%, X5R, 0603	0603
C4	1	0.47uF	GRM21BR72A474KA73L	MuRata	CAP, CERM, 0.47 µF, 100 V, +/- 10%, X7R, 0805	0805
C5	1	1uF	C2012X7S2A105K125AB	TDK	CAP, CERM, 1 µF, 100 V, +/- 10%, X7S, 0805	0805
C6, C8	2	0.1uF	GRM188R72A104KA35D	MuRata	CAP, CERM, 0.1 µF, 100 V, +/- 10%, X7R, 0603	0603
C7, C9	2	1000pF	GRM188R72A102KA01D	MuRata	CAP, CERM, 1000 pF, 100 V, +/- 10%, X7R, 0603	0603
C10	1	1uF	GRM188R71E105KA12D	MuRata	CAP, CERM, 1 µF, 25 V, +/- 10%, X7R, 0603	0603
C11	1	10uF	C5750X7S2A106M	TDK	CAP, CERM, 10 µF, 100 V, +/- 20%, X7S, 2220	2220
C13, C82, C83, C84, C85, C87, C233, C234, C251	9	4.7uF	GRM188R61C475KAAJ	MuRata	CAP, CERM, 4.7 µF, 16 V, +/- 10%, X5R, 0603	0603
C14	1	8.2pF	GRM1555C1E8R2CA01D	MuRata	CAP, CERM, 8.2 pF, 25 V, +/- 5%, C0G/NP0, 0402	0402
C15, C22, C27, C28, C29, C30, C55, C56, C57, C58, C206	11	0.1uF	GRM155R71C104KA88D	MuRata	CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0402	0402
C16, C100, C101	3	1uF	GRM188R71A105KA61D	MuRata	CAP, CERM, 1 µF, 10 V, +/- 10%, X7R, 0603	0603
C21	1	470pF	GRM155R71H471KA01D	MuRata	CAP, CERM, 470 pF, 50 V, +/- 10%, X7R, 0402	0402
C23, C91, C92, C93, C94, C95, C96, C97, C98, C201, C260	11	2.2uF	GRM188R71A225KE15D	MuRata	CAP, CERM, 2.2 µF, 10 V, +/- 10%, X7R, 0603	0603
C24, C99, C199, C203, C204, C207, C209, C236, C237, C239, C244, C245, C246, C247, C248, C249, C250	17	0.1uF	GRM155R71A104KA01D	MuRata	CAP, CERM, 0.1 µF, 10 V, +/- 10%, X7R, 0402	0402

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C25, C26, C38, C39, C42, C43, C44, C47, C48, C49, C50, C53, C54, C65, C66, C69, C70, C71, C74, C75, C76, C77, C197, C210, C253, C257	26	1000pF	GRM033R71C102KA01D	MuRata	CAP, CERM, 1000 pF, 16 V, +/- 10%, X7R, 0201	0201
C33, C59	2	1000pF	202R18W102KV4E	Johanson Technology	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1206_190	1206_190
C35, C37, C41, C46, C64, C68, C73, C102, C103, C105, C106, C108, C109, C111, C112, C114, C115, C117, C118, C119, C120, C121, C122, C123, C124, C125, C127, C128, C129, C130, C132, C133, C134, C135, C136, C137, C138, C142, C143, C144, C146, C147, C172, C173, C174, C175, C176, C177, C178, C179, C180, C181, C182, C183, C184, C186, C187, C188, C189, C190, C191, C195, C196, C200, C205,	69	0.01uF	GRM033R71A103KA01D	MuRata	CAP, CERM, 0.01 µF, 10 V, +/- 10%, X7R, 0201	0201
C139, C140, C141, C145	4	1uF	CL03A105MP3NSNC	Samsung	CAP, CERM, 1 µF, 10 V, +/- 20%, X5R, 0201	0201

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C150, C151, C152, C153, C154, C155, C156, C157, C158, C159, C160, C161, C162, C163, C164, C165, C166, C167, C168, C169, C208, C213, C214, C215, C216, C217, C218, C219, C220, C221, C222, C223, C224, C228, C229, C230, C252, C255	38	0.1uF	CL03A104KP3NNNC	Samsung	CAP, CERM, 0.1 µF, 10 V, +/- 10%, X5R, 0201	0201
C194, C198	2	18pF	GRM1555C1H180JA01D	MuRata	CAP, CERM, 18 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C240, C241, C258, C259	4	27pF	GRM1555C1H270JA01D	MuRata	CAP, CERM, 27 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C261, C262, C263, C264, C265, C266, C267, C268, C271, C272, C273, C274, C275, C276, C277, C278	16	4.7pF	GRM0335C1H4R7CA01D	MuRata	CAP, CERM, 4.7 pF, 50 V, +/- 5%, C0G/NP0, 0201	0201
D1	1	60V	MBRA160T3G	ON Semiconductor	Diode, Schottky, 60V, 1A, SMA	SMA
D2, D3, D6, D11, D14	5	Green	LG L29K-G2J1-24-Z	OSRAM	LED, Green, SMD	1.7x0.65x0.8mm
D4, D9	2	Yellow	LY L29K-J1K2-26-Z	OSRAM	LED, Yellow, SMD	LED, 1.3x0.65x0.8mm
D5, D10	2	Red	LS L29K-G1J2-1-Z	OSRAM	LED, Red, SMD	SMD, 2-Leads, Body 1.3x0.8mm
D7, D12	2	Orange	LO L29K-J2L1-24-Z	OSRAM	LED, Orange, SMD	SMD, 2-Leads, Body 1.3x0.8mm
D8, D13	2	5V	SRV05-4.TCT	Semtech	Diode, TVS, Bi, 5 V, 300 W, SOT-23-6	SOT-23-6
H1, H2, H3, H4	4		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
J1, J3	2		PEC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Tin, TH	Header, 2 PIN, 100mil, Tin
J2	1		RAPC722X	Switchcraft	Power Jack, mini, 2.1mm OD, R/A, TH	Jack, 14.5x11x9mm
J4, J5	2		43202-8916	Molex	Modular Jack(Shielded), Gold, R/A, TH	Modular Jack(Shielded), R/A, TH
J6	1		502774-0891	Molex	Connctor, micro SD Card, 1.1 mm, R/A, SMT	SMD, 14-Leads, Body 15x14.3mm, Pitch 1.1mm

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J7	1		10104111-0001LF	FCI	Receptacle, 0.65 mm, 5x1, Gold, R/A, SMT	SMD, 5-Leads, Body 7.5x5.6mm, Pitch 0.65mm
L1	1	1uH	LPS3010-102MRB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 1 µH, 1.5 A, 0.085 ohm, SMD	LPS3010
L2	1	15uH	MSS1260-153MLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 15 µH, 3.5 A, 0.03 ohm, SMD	MSS1260
L3, L4, L5	3	2.2uH	VLCF5020T-2R2N2R6-3	TDK	Inductor, Shielded, Ferrite, 2.2 µH, 2.62 A, 0.043 ohm, SMD	5x2x5mm
L6, L7, L9, L10, L11, L12	6	150 ohm	LI0805H151R-10	Laird-Signal Integrity Products	Ferrite Bead, 150 ohm @ 100 MHz, 0.8 A, 0805	0805
L8	1	90Ohm	ACM2012H-900-2P-T00	TDK	Common Mode Filter, 90 Ohm, 6 GHz, SMD	SMD, 4-Leads, Body 2x1.2mm
L13, L14	2	120 ohm	MMZ1005Y121C	TDK	Ferrite Bead, 120 ohm @ 100 MHz, 0.4 A, 0402	0402
R1	1	10	CRCW060310R0JNEAHP	Vishay-Dale	RES, 10 ohm, 5%, 0.25W, 0603	0603
R2	1	453k	CRCW0402453KFKED	Vishay-Dale	RES, 453 k, 1%, 0.063 W, 0402	0402
R3	1	750	CRCW0402750RJNED	Vishay-Dale	RES, 750, 5%, 0.063 W, 0402	0402
R4, R119	2	100k	CRCW0402100KFKED	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
R5	1	80.6k	CRCW040280K6FKED	Vishay-Dale	RES, 80.6 k, 1%, 0.063 W, 0402	0402
R6	1	1.00Meg	CRCW04021M00FKED	Vishay-Dale	RES, 1.00 M, 1%, 0.063 W, 0402	0402
R7	1	249k	CRCW0402249KFKED	Vishay-Dale	RES, 249 k, 1%, 0.063 W, 0402	0402
R8, R9, R10, R12, R15, R71, R139, R140, R141, R142, R143, R144, R145, R147	14	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R13	1	360	CRCW0402360RJNED	Vishay-Dale	RES, 360, 5%, 0.063 W, 0402	0402
R14	1	150k	CRCW0402150KFKED	Vishay-Dale	RES, 150 k, 1%, 0.063 W, 0402	0402
R16	1	110k	CRCW0402110KFKED	Vishay-Dale	RES, 110 k, 1%, 0.063 W, 0402	0402
R19, R43, R44, R46, R47, R50, R51, R171, R173, R175	10	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R20	1	0	EXB-2HVR000V	Panasonic	RES, 0, 5%, 0.0625 W, Resistor Array - 8x1	Resistor Array - 8x1
R21, R38, R41, R67, R68, R136, R138, R158	8	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
R22, R24, R32, R37, R42, R48, R58, R64	8	75.0	CRCW060375R0FKEA	Vishay-Dale	RES, 75.0, 1%, 0.1 W, 0603	0603
R23, R29, R45, R55, R146, R152, R153, R165, R166	9	4.7k	CRCW04024K70JNED	Vishay-Dale	RES, 4.7 k, 5%, 0.063 W, 0402	0402
R25, R26, R27, R33, R52, R53, R54, R60, R66	9	560	CRCW0402560RJNED	Vishay-Dale	RES, 560, 5%, 0.063 W, 0402	0402
R28, R30, R49, R56, R59	5	11.0k	CRCW040211K0FKED	Vishay-Dale	RES, 11.0 k, 1%, 0.063 W, 0402	0402
R31, R34, R57, R61, R62	5	2.49k	CRCW04022K49FKED	Vishay-Dale	RES, 2.49 k, 1%, 0.063 W, 0402	0402
R69	1	22	EXB-2HV220JV	Panasonic	RES, 22, 5%, 0.0625 W, Resistor Array - 8x1	Resistor Array - 8x1

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R70, R84, R94, R95, R96, R120, R121, R122, R123, R124, R125, R131, R135, R137, R148, R149, R150	17	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
R72, R73, R74, R75, R77, R78, R79, R80, R81, R82	10	22	CRCW040222R0JNED	Vishay-Dale	RES, 22, 5%, 0.063 W, 0402	0402
R76, R117, R118, R154, R156	5	2.2k	CRCW04022K20JNED	Vishay-Dale	RES, 2.2 k, 5%, 0.063 W, 0402	0402
R99, R126, R127, R176	4	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9, 1%, 0.063 W, 0402	0402
R100, R129, R169, R177, R178	5	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
R101, R103, R104, R105, R106, R107, R108, R109, R110, R111, R115, R116	12	100k	CRCW0402100KJNED	Vishay-Dale	RES, 100 k, 5%, 0.063 W, 0402	0402
R128, R130, R133	3	47	EXB-2HV470JV	Panasonic	RES, 47, 5%, 0.0625 W, Resistor Array - 8x1	Resistor Array - 8x1
R132	1	240	CRCW0402240R0JNED	Vishay-Dale	RES, 240, 5%, 0.063 W, 0402	0402
R134	1	47	CRCW040247R0JNED	Vishay-Dale	RES, 47, 5%, 0.063 W, 0402	0402
R155	1	4.75k	CRCW04024K75FKED	Vishay-Dale	RES, 4.75 k, 1%, 0.063 W, 0402	0402
R157	1	12.1k	CRCW040212K1FKED	Vishay-Dale	RES, 12.1 k, 1%, 0.063 W, 0402	0402
R167, R182, R183	3	36	CRCW040236R0JNED	Vishay-Dale	RES, 36, 5%, 0.063 W, 0402	0402
S1	1		B3U-1000P	Omron Electronic Components	SWITCH TACTILE SPST-NO 0.05A 12V	3x1.6x2.5mm
T1, T2	2	325 uH	HX5008FNL	Pulse Engineering	Transformer, 325 uH, SMT	SMD, 17.86x13.16mm
U1	1		LM46002PWP	Texas Instruments	3.5V to 60V 2A Synchronous Step-Down Voltage Regulator, PWP0016A	PWP0016A
U2	1		TPS73733DCQ	Texas Instruments	Single Output LDO, 1 A, Fixed 3.3 V Output, 2.2 to 5.5 V Input, with Reverse Current Protection, 6-pin SOT-223 (DCQ), -40 to 125 degC, Green (RoHS & no Sb/Br)	DCQ0006A
U3	1		LMZ10501SIL	Texas Instruments	1A SIMPLE SWITCHER® Nano Module with 5.5V Maximum Input Voltage, SIL0008A	SIL0008A
U5	1		TPS72011DRV	Texas Instruments	350mA, Ultra-Low VIN, RF Low-Dropout Linear Regulator with Bias Pin, DRV0006A	DRV0006A
U6, U12	2		DP83867IRPAPR	Texas Instruments	Robust, Low Power 10/100/1000 Ethernet Physical Layer Transceiver, PAP0064M	PAP0064M
U7, U9	2		TPD4E05U06DQA	Texas Instruments	1, 4, 6 CHANNEL PROTECTION SOLUTION FOR SUPER-SPEED (UP TO 6 GBPS) INTERFACE, DQA0010A	DQA0010A
U11	1		SN74AHC1G08DCK	Texas Instruments	Single 2-Input Positive-AND Gate, DCK0005A	DCK0005A
U13	1		TPS65910A3A1RSL	Texas Instruments	Integrated Power-Management Unit Top Specification, RSL0048A	RSL0048A

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U14	1		TPS71718DSER	Texas Instruments	Single Output High PSRR LDO, 150 mA, Fixed 1.8 V Output, 2.5 to 6.5 V Input, with Low IQ, 6-pin WSON (DSE), -40 to 125 degC, Green (RoHS & no Sb/Br)	DSE0006A
U15	1		AM3359BZCZA80	Texas Instruments	Sitara Processors, ZCZ0324A	ZCZ0324A
U16	1		SN74AUP2G08DCU	Texas Instruments	LOW-POWER DUAL 2-INPUT POSITIVE-AND GATE, DCU0008A	DCU0008A
U17	1		MT41J128M16JT-125K TR	Micron Technology	2GBIT DDR3 SDRAM, 96-FBGA	BGA, 96-Balls, Body 9x14mm, Pitch 0.8mm
U18	1		TPD6E001RSER	Texas Instruments	Low-Capacitance + / - 15 kV ESD Protection Array for High-Speed Data Interfaces, 6 Channels, -40 to +85 degC, 10-pin UQFN (RSE), Green (RoHS & no Sb/Br)	RSE0010A
U19	1		CAT24C256WI-GT3	ON Semiconductor	256 kb I2C CMOS Serial EEPROM, SOIC-8	SOIC-8
U20	1		TPS51200DRCR	Texas Instruments	Single Output LDO, 3 A, 2.375 to 3.5 V Input, with DDR Termination, 10-pin SON (DRC), -40 to 85 degC, Green (RoHS & no Sb/Br)	DRC0010A
U21	1		TPD4S012DRYR	Texas Instruments	USB ESD Solution with Power Clamp, 4 Channels, -40 to +85 degC, 6-pin SON (DRY), Green (RoHS & no Sb/Br)	DRY0006A
U22	1		FT2232HL-REEL	FTDI	Dual High Speed USB To Multipurpose UART/FIFO IC, LQFP-64	LQFP 10x10mm
U23	1		93LC56B-I/OT	Microchip	2K Microwire Compatible Serial EEPROM, SOT-23-6	SOT-23-6
U24	1		SN74LVC1G06DCK	Texas Instruments	Single Inverter Buffer/Driver With Open-Drain Output, DCK0005A	DCK0005A
U25	1		CDCE913PW	Texas Instruments	Programmable 1-PLL VCXO Clock Synthesizer With 1.8-V, 2.5-V, and 3.3-V Outputs, PW0014A	PW0014A
Y4	1		MC-306 32.7680K-A0:ROHS	Epson	Crystal, 32.768kHz, 12.5pF, SMD	8x2.54x3.8mm
Y5	1		ABM3-12.000MHZ-D2Y-T	Abracon Corpotation	Crystal, 12 MHz, 18 pF, SMD	ABM3
Y6	1		ABM3-25.000MHZ-D2Y-T	Abracon Corpotation	Crystal, 25 MHz, 18 pF, SMD	ABM3
C12	0	0.022uF	GRM155R71H223KA12D	MuRata	CAP, CERM, 0.022 uF, 50 V, +/- 10%, X7R, 0402	0402
C31, C32, C60, C61, C192, C193	0	27pF	GRM1555C1H270JA01D	MuRata	CAP, CERM, 27 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
C34, C62	0	1000pF	1812GC102KA1	AVX	CAP, CERM, 1000 pF, 2000 V, +/- 10%, X7R, 1812	1812
C238	0	0.01uF	GRM033R71A103KA01D	MuRata	CAP, CERM, 0.01 uF, 10 V, +/- 10%, X7R, 0201	0201
C242	0	0.1uF	GRM155R71A104KA01D	MuRata	CAP, CERM, 0.1 uF, 10 V, +/- 10%, X7R, 0402	0402
J8	0		TFM-110-02-S-D-A-K-TR	Samtec	CONN SHRD HDR HDR 20 POS 1.27MM SLDR ST SMD	15.88x6.35x5.72mm
R35	0	22	CRCW040222R0JNED	Vishay-Dale	RES, 22, 5%, 0.063 W, 0402	0402
R36, R65, R168	0	1.00Meg	CRCW04021M00FKED	Vishay-Dale	RES, 1.00 M, 1%, 0.063 W, 0402	0402
R63, R170, R172, R174	0	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
R83, R85, R86, R87, R88, R89, R90, R91, R92, R93, R97, R98	0	10k	CRCW040210K0JNED	Vishay-Dale	RES, 10 k, 5%, 0.063 W, 0402	0402
R102, R112, R113, R114	0	100k	CRCW0402100KJNED	Vishay-Dale	RES, 100 k, 5%, 0.063 W, 0402	0402
R151	0	4.7k	CRCW04024K70JNED	Vishay-Dale	RES, 4.7 k, 5%, 0.063 W, 0402	0402
R159, R160, R161, R162, R163, R164	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0, 5%, 0.1 W, 0603	0603
R179, R180, R181	0	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00 k, 1%, 0.063 W, 0402	0402
U8, U10	0		TPD4E05U06DQA	Texas Instruments	1, 4, 6 CHANNEL PROTECTION SOLUTION FOR SUPER-SPEED (UP TO 6 GBPS) INTERFACE, DQA0010A	DQA0010A
Y1, Y2	0		ABM3-25.000MHZ-D2Y-T	Abracon Corpotation	Crystal, 25 MHz, 18 pF, SMD	ABM3
Y3	0		ABM3-24.000MHZ-D2Y-T	Abracon Corpotation	Crystal, 24 MHz, 18 pF, SMD	ABM3

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