

Filename: TIDA-00826\_BOM.xls  
 Variant: 001  
 Generated: 12/9/2015 1:08:41 PM  
 TID #: TIDA-00826



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPCB	1		6593635	Any	Printed Circuit Board	
2	1:1, 2:1, 5:1, AC, DC	5		RS-032G05A3-SM RT	C&K Components	Switch, Tactile, SPST-NO, 0.05A, 12V, SMD	SPST, 6x3.5mm
3	1:1 Atten, 2:1 Atten, 5:1 Atten, 12V, AC COUPLED, DC COUPLED, LD, Status1, Status2, USB_PWR	10	Green	LTST-C190GKT	Lite-On	LED, Green, SMD	1.6x0.8x0.8mm
4	1V2ADC_INT, 1V2ADC_LDO, 1V9ADC, 1V9INT, 5401 PD, 6401 PD, EXT_Vcmo, J2, J3, KC705 JTAG, LMK_INT, LMK_LDO, LMX_INT, LMX_LDO, PG_RX1, Tdiode, VA12, VA19, Vbg, VD12	20		TSW-102-07-G-S	Samtec, Inc.	Header, TH, 100mil, 2x1, Gold plated, 230 mil above insulator	TSW-102-07-G-S
5	3P3RX, GND, GND1, GND2, GND3, VADJ_RX	6	Black	5011	Keystone Electronics	Test Point, TH, Multipurpose, Black	
6	5VDC	1		PJ-202AH	CUI Inc.	Connector, DC Jack 2.1X5.5 mm, TH	Conn, DC Jack, pin 2mm Dia.
7	C1, C272, C309	3	0.01uF	C1005X7R1E103K	TDK	CAP, CERM, 0.01uF, 25V, +/-10%, X7R, 0402	0402
8	C2, C8, C11, C94, C95, C96, C215, C216, C217, C218, C219, C220, C221, C222, C223, C224, C225, C226, C227, C261	20	0.1uF	GRM155R71A104KA01D	MuRata	CAP, CERM, 0.1uF, 10V, +/-10%, X7R, 0402	0402
9	C3, C275	2	10uF	TPSA106K010R0900	AVX	CAP, TA, 10uF, 10V, +/-10%, 0.9 ohm, SMD	3216-18

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10	C4, C5, C18, C19, C73, C88, C89, C100, C103, C104, C105, C106, C107, C109, C110, C111, C112, C113, C120, C121, C124, C206, C207, C208, C209, C258, C259, C260, C273, C274, C310, C321, C322, C323, C324, C325, C326, C327, C328, C329, C330, C331, C332, C333, C334, C335, C336, C337, C338, C339, C340, C346, C347, C349, C350, C351, C352, C353, C354, C355, C384	61	0.1uF	C1005X5R1A104K	TDK	CAP, CERM, 0.1uF, 10V, +/-10%, X5R, 0402	0402
11	C7, C9, C10, C12, C13, C14, C15, C17, C20, C21, C22, C23, C26, C28, C29, C31, C41, C42, C43, C44, C45, C46, C47, C51, C52, C53, C54, C55, C56, C57, C58, C62, C63, C64, C65, C66, C67, C68, C69, C70, C71, C118, C119, C131, C132, C133, C134, C136, C140, C142, C214	51	0.1uF	C0603X5R0J104K	TDK	CAP, CERM, 0.1uF, 6.3V, X5R, 10%, 0201	0201
12	C16	1	4.7uF	C1005X5R0J475M050BC	TDK	CAP, CERM, 4.7uF, 6.3V, +/-20%, X5R, 0402	0402
13	C24, C115, C210	3	0.1uF	0603YC104JAT2A	AVX	CAP, CERM, 0.1uF, 16V, +/-5%, X7R, 0603	0603
14	C25, C34, C38	3	100pF	06035A101JAT2A	AVX	CAP, CERM, 100pF, 50V, +/-5%, C0G/NP0, 0603	0603
15	C27, C48, C59, C72	4	10uF	293D106X0010B2TE3	Vishay-Sprague	CAP, TANT, 10uF, 10V, +/-20%, 2.5 ohm, 3528-21 SMD	3528-21
16	C32, C33, C35, C37	4	4700pF	GRM033R61A472KA01D	MuRata	CAP, CERM, 4700pF, 10V, +/-10%, X5R, 0201	0201

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17	C39, C40, C49, C50, C60, C61, C99, C125, C143, C205	10	1uF	C1608X5R1A105K	TDK	CAP, CERM, 1uF, 10V, +/-10%, X5R, 0603	0603
18	C74	1	100pF	GRM1555C1E101JA01D	MuRata	CAP, CERM, 100pF, 25V, +/-5%, C0G/NP0, 0402	0402
19	C75, C76, C83, C84, C245	5	47pF	GRM1555C1H470JA01D	MuRata	CAP, CERM, 47pF, 50V, +/-5%, C0G/NP0, 0402	0402
20	C77, C79, C239, C242, C253, C256	6	0.01uF	GRM155R71E103KA01D	MuRata	CAP, CERM, 0.01uF, 25V, +/-10%, X7R, 0402	0402
21	C78, C80, C254, C257	4	27pF	GRM1555C1H270JA01D	MuRata	CAP, CERM, 27pF, 50V, +/-5%, C0G/NP0, 0402	0402
22	C81, C82, C232, C236, C240, C243, C252, C255	8	1uF	C1005X5R0J105M	TDK	CAP, CERM, 1uF, 6.3V, +/-20%, X5R, 0402	0402
23	C97, C98, C116, C126, C129, C130, C144, C147, C148, C151, C153, C159, C164, C167, C176, C177, C185, C189, C191, C198, C199, C213, C277, C281, C283, C288, C290, C298, C300, C357, C359, C390, C392, C393, C396, C399, C402, C405, C407, C411, C416	41	0.1uF	06033C104JAT2A	AVX	CAP, CERM, 0.1uF, 25V, +/-5%, X7R, 0603	0603
24	C102, C311, C312, C313, C314, C315, C316, C317, C318, C319, C320	11	0.01uF	C1005X7R1C103K	TDK	CAP, CERM, 0.01uF, 16V, +/-10%, X7R, 0402	0402
25	C108, C155, C201, C211	4	1uF	C1608X5R1C105K	TDK	CAP, CERM, 1uF, 16V, +/-10%, X5R, 0603	0603
26	C117, C149	2	330pF	06035A331JAT2A	AVX	CAP, CERM, 330pF, 50V, +/-5%, C0G/NP0, 0603	0603
27	C122	1	10uF	C0805C106K8PACTU	Kemet	CAP, CERM, 10uF, 10V, +/-10%, X5R, 0805	0805
28	C127, C160	2	4.7uF	C0603C475K8PACTU	Kemet	CAP, CERM, 4.7uF, 10V, +/-10%, X5R, 0603	0603
29	C128, C161, C278, C408	4	0.01uF	06031C103MAT2A	AVX	CAP, CERM, 0.01uF, 100V, +/-20%, X7R, 0603	0603
30	C135, C137	2	18pF	GRM1555C1H180JA01D	MuRata	CAP, CERM, 18pF, 50V, +/-5%, C0G/NP0, 0402	0402
31	C138, C212	2	100uF	GRM31CR60J107ME39L	MuRata	CAP, CERM, 100uF, 6.3V, +/-20%, X5R, 1206	1206

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32	C139, C141, C150, C152, C158, C163, C165, C166, C171, C172, C186, C188, C190, C194, C195, C196, C197, C200, C202, C203, C204, C276, C280, C282, C289, C297, C299, C358, C391, C395, C398, C401, C404, C406, C410, C415	36	10uF	C1608X5R1A106M	TDK	CAP, CERM, 10uF, 10V, +/-10%, C0G/NP0, 0603	0603
33	C145, C146, C173, C184, C382, C383	6	10uF	EMK212BJ106KG-T	Taiyo Yuden	CAP, CERM, 10uF, 16V, +/-10%, X5R, 0805	0805
34	C154	1	10pF	06035A100JAT2A	AVX	CAP, CERM, 10pF, 50V, +/-5%, C0G/NP0, 0603	0603
35	C156, C157	2	47uF	GRM31CR60J476ME19L	MuRata	CAP, CERM, 47uF, 6.3V, +/-20%, X5R, 1206	1206
36	C162	1	3300pF	GRM188R71E332KA01D	MuRata	CAP, CERM, 3300pF, 25V, +/-10%, X7R, 0603	0603
37	C168	1	0.22uF	C1608X7R1C224K	TDK	CAP, CERM, 0.22uF, 16V, +/-10%, X7R, 0603	0603
38	C169, C170	2	0.1uF	GRM155R60J104KA01D	MuRata	CAP, CERM, 0.1uF, 6.3V, +/-10%, X5R, 0402	0402
39	C174, C175	2	0.027uF	GRM188R71C273KA01D	MuRata	CAP, CERM, 0.027uF, 16V, +/-10%, X7R, 0603	0603
40	C178, C179	2	0.039uF	06033C393KAT2A	AVX	CAP, CERM, 0.039uF, 25V, +/-10%, X7R, 0603	0603
41	C180, C181, C182, C183	4	22uF	GRM31CR61A226ME19L	MuRata	CAP, CERM, 22uF, 10V, +/-20%, X5R, 1206	1206
42	C187	1	560pF	06035A561JAT2A	AVX	CAP, CERM, 560pF, 50V, +/-5%, C0G/NP0, 0603	0603
43	C192	1	4700pF	GRM188R71C472KA01D	MuRata	CAP, CERM, 4700pF, 16V, +/-10%, X7R, 0603	0603
44	C193	1	47uF	TPSB476K010R0250	AVX	CAP, TA, 47 uF, 10 V, +/- 10%, 0.25 ohm, SMD	3528-21
45	C228, C229	2	0.5pF	500R07S0R5BV4T	Johanson Technology Inc	CAP CER 0.5PF 50V NP0 0402	0402
46	C233, C237, C238, C241, C246, C248	6	4.7pF	GRM1555C1H4R7CA01D	MuRata	CAP, CERM, 4.7pF, 50V, +/-5%, C0G/NP0, 0402	0402
47	C244	1	560pF	GRM1555C1H561JA01D	MuRata	CAP, CERM, 560pF, 50V, +/-5%, C0G/NP0, 0402	0402
48	C249	1	22pF	GRM1555C1H220JA01D	MuRata	CAP, CERM, 22pF, 50V, +/-5%, C0G/NP0, 0402	0402
49	C264, C265, C270, C271, C301, C302, C307, C308	8	0.01uF	LLL185R71E103MA01L	MuRata	CAP, CERM, 0.01uF, 25V, +/-20%, X7R, 0306	0306
50	C266, C267, C268, C269, C303, C304, C305, C306	8	2200pF	LLL185R71H222MA01L	MuRata	CAP, CERM, 2200pF, 50V, +/-20%, X7R, 0306	0306
51	C279	1	15pF	C0603C150J5GACTU	Kemet	CAP, CERM, 15 pF, 50 V, +/- 5%, C0G/NP0, 0603	0603
52	C284, C285, C418, C419	4	22uF	C1608X5R0J226M080AC	TDK	CAP, CERM, 22 uF, 6.3 V, +/- 20%, X5R, 0603	0603
53	C286, C385, C417	3	10pF	GRM1555C1H100JA01D	MuRata	CAP, CERM, 10 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
54	C287, C356, C389	3	2.2uF	GRM188R61A225KE34D	MuRata	CAP, CERM, 2.2 uF, 10 V, +/- 10%, X5R, 0603	0603
55	C291, C292	2	1pF	GRM1555C1H1R0CA01D	MuRata	CAP, CERM, 1 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402
56	C293, C294	2	2.4pF	GRM1555C1H2R4CA01D	MuRata	CAP, CERM, 2.4 pF, 50 V, +/- 5%, C0G/NP0, 0402	0402

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57	C295, C296	2	0 ohm	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
58	C341, C342, C343, C344, C345	5	1000pF	C1005C0G1E102J	TDK	CAP, CERM, 1000 pF, 25 V, +/- 5%, COG/NP0, 0402	0402
59	C360, C361, C362, C363, C364, C365, C366, C367, C368, C369, C413, C414	12	1uF	293D105X0016A2TE3	Vishay-Sprague	CAP, TA, 1 µF, 16 V, +/- 20%, 9.3 ohm, SMD	3216-18
60	C386, C387, C388, C394, C397, C400	6	22uF	C2012X5R1C226K125AC	TDK	CAP, CERM, 22 µF, 16 V, +/- 10%, X5R, 0805	0805
61	C403	1	N/A	Used in BOM report	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in PnP output and some BOM reports
62	C409	1	22pF	C0603C220J5GACTU	Kemet	CAP, CERM, 22 pF, 50 V, +/- 5%, COG/NP0, 0603	0603
63	D1, D7	2	30V	PMEG3005EL,315	NXP Semiconductor	Diode, Schottky, 30 V, 0.5 A, SOD882	SOD882
64	D2, D4	2	1.25V	1N4148W-7-F	Diodes Inc.	Diode, Ultrafast, 100V, 0.15A, SOD-123	SOD-123
65	D3	1	MMBD352 WT1	MMBD352WT1	Diodes	Diode, Dual Switching, Series, 10-mA, 7V	SC-70
66	D5, D6	2	0.5V	MBRS540T3G	ON Semiconductor	Diode, Schottky, 40V, 5A, SMC	SMC
67	DEVCLK, EXT_VCO, LMKCLK, OSCin	4		SASF546-P26-X1	Lighthouse Technologies	Connector, SMA, Vertical, Thru hole w/SMT center pin	6.35x12.52x6.35mm
68	EXT5V_FMC12V	1	1x3	PBC03SAAN	Sullins Connector Solutions	Header, TH, 100mil, 1x3, Gold plated, 230 mil above insulator	PBC03SAAN
69	FL1, FL2, FL3	3	0.2uF	NFM41PC204F1H3L	MuRata	Filter, LC, 0.2uF, 1806, SMT	1806
70	FMC_RX1	1		ASP-134488-01	Molex	Connector, Receptacle, 400-Pos (40x10), 50x50-mil Pitch, SMT	2196x280x478mil
71	FTDI_3P3V, OR, RSV, Ts ADD1, Vcmo	5		TSW-103-07-G-S	Samtec, Inc.	Header, TH, 100mil, 3x1, Gold plated, 230 mil above insulator	TSW-103-07-G-S
72	H3, H4	2		1648-440-AL	RAF	Standoff, Round, 3/16" x 1-3/16"L #4-40 Aluminum	Standoff
73	H5, H6	2		NY PMS 440 0025 PH	B&F Fastener Supply	Machine Screw, Round, #4-40 x 1/4, Nylon, Philips panhead	Screw
74	H9, H11	2		PMSSS 256 0075 PH	B&F Fastner Supply	MACHINE SCREW PAN PHILLIPS 2-56	Used in PnP output
75	H10, H12	2		HNSS256	B & F Fastener Supply	HEX NUT 3/16" STN STEEL 2-56	Used in PnP output
76	J1	1		TSW-104-07-G-S	Samtec, Inc.	Header, TH, 100mil, 4x1, Gold plated, 230 mil above insulator	TSW-104-07-G-S
77	K1, K2, K3, K4, K5	5		RF180-5	Any	Relay, DPDT (2 Form C), , 5 VDC, TH, K1 - K5 Body to be mounted approxiamtely 0.025 inches above PC board but cannot be in contact with the PC board	9.53x12.06mm
78	K6, K7	2		DS1E-SL2-DC5V	Panasonic	Relay, SPDT (1 Form C), 2A, 5 VDC, TH	TH, 6-Leads, Body 15x9.9mm
79	K8	1		DS1E-SL2-DC5V	Panasonic	Relay, SPDT (1 Form C), 2 A, 5 VDC, TH	15x9.9mm
80	L1, L27, L28, L29, L30, L31, L32, L33, L34	9	1000 ohm	BLM15HG102SN1D	MuRata	0.25A Ferrite Bead, 1000 ohm @ 100MHz, SMD	0402
81	L2, L3, L4, L5, L19, L21, L22, L23	8	330 ohm	BLM18SG331TN1D	MuRata	1.5A Ferrite Bead, 330 ohm @ 100MHz, SMD	0603
82	L6, L9, L10, L13, L15, L16, L17, L18, L26	9	26 ohm	BLM18SG260TN1D	MuRata	6A Ferrite Bead, 26 ohm @ 100MHz, SMD	0603

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83	L7, L14, L20, L24, L25, L35, L36, L40, L42, L43, L44, L45, L46, L47, L48, L50, L51, L52, L53, L54	20	120 ohm	BLM18SG121TN1D	MuRata	3A Ferrite Bead, 120 ohm @ 100MHz, SMD	0603
84	L8	1	3uH	CDRH6D28NP-3R0NC	Sumida	Inductor, Shielded Drum Core, Ferrite, 3uH, 3A, 0.024 ohm, SMD	CDRH6D28
85	L11	1	7uH	MSS1038-702NLB	Coilcraft	Inductor, Shielded Drum Core, Ferrite, 7uH, 4.35A, 0.03 ohm, SMD	MSS1038
86	L12	1	5.5uH	744325550	Würth Elektronik eiSos	Inductor, Shielded Drum Core, Superflux, 5.5uH, 10A, 0.0112 ohm, SMD	WE-HC6
87	L37, L41	2	6.8uH	VLS2012ET-6R8M	TDK	Inductor, Shielded, Ferrite, 6.8 uH, 0.57 A, 0.498 ohm, SMD	Inductor, 2x1.2x2mm
88	L38, L39	2	5.6nH	LQW18AN5N6D10D	MuRata	Inductor, Wirewound, 5.6 nH, 0.9 A, 0.045 ohm, SMD	Inductor, 1.6x0.8x0.8mm
89	L49	1	1uH	XFL4020-102MEB	Coilcraft	Inductor, Shielded, Composite, 1 uH, 5.4 A, 0.01 ohm, SMD	4x2x4mm
90	L55, L56	2	3.9nH	0603HC-3N9XJLU	Coilcraft	Inductor, Wirewound, Ceramic, 3.9 nH, 2.2 A, 0.054 ohm, SMD	0603
91	LF1	1	3900pF	C1608C0G1E392J	TDK	CAP, CERM, 3900pF, 25V, +/-5%, C0G/NP0, 0603	0603
92	LF2	1	47pF	06035A470JAT2A	AVX	CAP, CERM, 47pF, 50V, +/-5%, C0G/NP0, 0603	0603
93	LF3	1	619	RC0603FR-07619RL	Yageo America	RES, 619 ohm, 1%, 0.1W, 0603	0603
94	LF7	1	uH	ACM7060-301-2PL-TL	TDK	Coupled inductor, 5A, 0.01 ohm, SMD	6x3.5x7 mm
95	NCO	1		TSW-103-07-G-D	Samtec, Inc.	Header, TH, 100mil, 3x2, Gold plated, 230 mil above insulator	TSW-103-07-G-D
96	OFFSET ADJ	1	1k	3214W-1-102E	Bourns	Trimmer, 1k, 0.25W, SMT	4.8x5.3x3.5mm
97	OR_T0, OR_T1	2	Orange	LTST-C190KFKT	Lite-On	LED, Orange, SMD	1.6x0.8x0.8mm
98	Q1	1	60V	CSD18532Q5B	Texas Instruments	MOSFET, N-CH, 60 V, 172 A, SON 5x6mm	SON 5x6mm
99	Q2, Q3, Q4	3	20V	FDY1002PZ	Fairchild Semiconductor	MOSFET, P-CH, 20 V, 0.83 A, SOT-563	SOT-563
100	R1	1	8.06k	CRCW04028K06FKED	Vishay-Dale	RES, 8.06k ohm, 1%, 0.063W, 0402	0402
101	R2, R10	2	1.2k	CRCW04021K20JNED	Vishay-Dale	RES, 1.2k ohm, 5%, 0.063W, 0402	0402
102	R3, R11, R150, R243, R245	5	1.0Meg	CRCW04021M00JNED	Vishay-Dale	RES, 1.0Meg ohm, 5%, 0.063W, 0402	0402
103	R4, R5, R6, R14, R15, R16, R105, R106, R107, R123, R130, R131, R187	13	10.0k	CRCW060310K0FKEA	Vishay-Dale	RES, 10.0k ohm, 1%, 0.1W, 0603	0603
104	R12	1	1.33k	CRCW04021K33FKED	Vishay-Dale	RES, 1.33k ohm, 1%, 0.063W, 0402	0402
105	R13	1	3.30k	RG1608P-332-B-T5	Susumu Co Ltd	RES, 3.30k ohm, 0.1%, 0.1W, 0603	0603
106	R17	1	750	RC0603JR-07750RL	Yageo America	RES, 750 ohm, 5%, 0.1W, 0603	0603
107	R19, R20	2	0	ERJ-1GE0R00C	Panasonic	RES, 0 ohm, 5%, 0.05W, 0201	0201
108	R25, R38, R145, R147, R148, R149, R233	7	0	ERJ-2GE0R00X	Panasonic	RES, 0 ohm, 5%, 0.063W, 0402	0402
109	R27, R28, R34, R35	4	100	CRCW0402100RFKED	Vishay-Dale	RES, 100 ohm, 1%, 0.063W, 0402	0402
110	R31, R32, R122	3	1.3k	RC0603JR-071K3L	Yageo America	RES, 1.3k ohm, 5%, 0.1W, 0603	0603
111	R33, R37	2	3.3k	CRCW04023K30JNED	Vishay-Dale	RES, 3.3k ohm, 5%, 0.063W, 0402	0402
112	R39, R71, R80, R134	4	1.0k	RC0603JR-071KL	Yageo America	RES, 1.0k ohm, 5%, 0.1W, 0603	0603
113	R41, R74	2	10.7k	CRCW060310K7FKEA	Vishay-Dale	RES, 10.7k ohm, 1%, 0.1W, 0603	0603
114	R43, R44, R48, R59, R60, R61, R62, R63, R64, R160, R161, R181	12	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0 ohm, 5%, 0.063W, 0402	0402
115	R45, R56, R112	3	270	CRCW0603270RJNEA	Vishay-Dale	RES, 270 ohm, 5%, 0.1W, 0603	0603
116	R47	1	2.32k	RC0603FR-072K32L	Yageo America	RES, 2.32k ohm, 1%, 0.1W, 0603	0603
117	R49, R77	2	4.64k	RC0603FR-074K64L	Yageo America	RES, 4.64k ohm, 1%, 0.1W, 0603	0603

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118	R51	1	51	CRCW040251R0JNED	Vishay-Dale	RES, 51 ohm, 5%, 0.063W, 0402	0402
119	R52, R53	2	10	CRCW060310R0JNEA	Vishay-Dale	RES, 10 ohm, 5%, 0.1W, 0603	0603
120	R65, R68, R109, R110, R111, R113, R114, R115, R117, R118, R124, R125, R186	13	100	CRCW0603100RJNEA	Vishay-Dale	RES, 100 ohm, 5%, 0.1W, 0603	0603
121	R66	1	1.00k	CRCW06031K00FKEA	Vishay-Dale	RES, 1.00k ohm, 1%, 0.1W, 0603	0603
122	R67	1	12.0k	RC0603FR-0712KL	Yageo America	RES, 12.0k ohm, 1%, 0.1W, 0603	0603
123	R70	1	10k	RC0603JR-0710KL	Yageo America	RES, 10k ohm, 5%, 0.1W, 0603	0603
124	R72, R177	2	95.3k	RC0603FR-0795K3L	Yageo America	RES, 95.3 k, 1%, 0.1 W, 0603	0603
125	R76	1	22.1k	CRCW060322K1FKEA	Vishay-Dale	RES, 22.1k ohm, 1%, 0.1W, 0603	0603
126	R78	1	10.0	RC0603FR-0710RL	Yageo America	RES, 10.0 ohm, 1%, 0.1W, 0603	0603
127	R79	1	732	CRCW0603732RFKEA	Vishay-Dale	RES, 732 ohm, 1%, 0.1W, 0603	0603
128	R81	1	16.2k	CRCW060316K2FKEA	Vishay-Dale	RES, 16.2k ohm, 1%, 0.1W, 0603	0603
129	R82	1	7.87k	CRCW06037K87FKEA	Vishay-Dale	RES, 7.87k ohm, 1%, 0.1W, 0603	0603
130	R85	1	2.49k	CRCW06032K49FKEA	Vishay-Dale	RES, 2.49k ohm, 1%, 0.1W, 0603	0603
131	R86, R87	2	5.90k	CRCW06035K90FKEA	Vishay-Dale	RES, 5.90k ohm, 1%, 0.1W, 0603	0603
132	R88, RR6	2	4.99k	CRCW06034K99FKEA	Vishay-Dale	RES, 4.99k ohm, 1%, 0.1W, 0603	0603
133	R89	1	2.80k	CRCW06032K80FKEA	Vishay-Dale	RES, 2.80k ohm, 1%, 0.1W, 0603	0603
134	R91	1	4.99k	CRCW04024K99FKED	Vishay-Dale	RES, 4.99k ohm, 1%, 0.063W, 0402	0402
135	R93	1	1.00k	RC0603FR-071KL	Yageo America	RES, 1.00k ohm, 1%, 0.1W, 0603	0603
136	R94, R251, R252, R253, R254, R255	6	1.0k	CRCW12061K00JNEA	Vishay-Dale	RES, 1.0k ohm, 5%, 0.25W, 1206	1206
137	R96	1	357	RC0603FR-07357RL	Yageo America	RES, 357 ohm, 1%, 0.1W, 0603	0603
138	R97, R98, R101, R102	4	12.4k	CRCW060312K4FKEA	Vishay-Dale	RES, 12.4k ohm, 1%, 0.1W, 0603	0603
139	R99, R100, R143, R259, R260, R261, R262, R263, R264, RR7	10	0	ERJ-3GEY0R00V	Panasonic	RES, 0 ohm, 5%, 0.1W, 0603	0603
140	R103, R132, R152	3	0	CRCW0603000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
141	R108	1	2.2k	RC0603JR-072K2L	Yageo America	RES, 2.2k ohm, 5%, 0.1W, 0603	0603
142	R133, R170, R173, R242, R250, R256	6	1.00k	CRCW04021K00FKED	Vishay-Dale	RES, 1.00k ohm, 1%, 0.063W, 0402	0402
143	R135	1	2.10k	CRCW06032K10FKEA	Vishay-Dale	RES, 2.10k ohm, 1%, 0.1W, 0603	0603
144	R136, R137, R138	3	4.7k	CRCW06034K70JNEA	Vishay-Dale	RES, 4.7k ohm, 5%, 0.1W, 0603	0603
145	R144, R190, R234, R235, R236, R237, R238	7	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0k ohm, 1%, 0.063W, 0402	0402
146	R154	1	261	CRCW0402261RFKED	Vishay-Dale	RES, 261, 1%, 0.063 W, 0402	0402
147	R156, R157	2	127	CRCW0402127RFKED	Vishay-Dale	RES, 127 ohm, 1%, 0.063W, 0402	0402
148	R158, R159	2	82.5	CRCW040282R5FKED	Vishay-Dale	RES, 82.5 ohm, 1%, 0.063W, 0402	0402
149	R162	1	107	CRCW0402107RFKED	Vishay-Dale	RES, 107 ohm, 1%, 0.063W, 0402	0402
150	R163, R164	2	2.2k	CRCW04022K20JNED	Vishay-Dale	RES, 2.2k ohm, 5%, 0.063W, 0402	0402
151	R166, R167	2	560	CRCW0402560RJNED	Vishay-Dale	RES, 560, 5%, 0.063 W, 0402	0402
152	R168, R204	2	365	CRCW0402365RFKED	Vishay-Dale	RES, 365, 1%, 0.063 W, 0402	0402
153	R169, R203	2	22.6	CRCW040222R6FKED	Vishay-Dale	RES, 22.6, 1%, 0.063 W, 0402	0402
154	R171	1	62.0k	RC0603FR-0762KL	Yageo America	RES, 62.0 k, 1%, 0.1 W, 0603	0603
155	R172, R249	2	30.1k	CRCW060330K1FKEA	Vishay-Dale	RES, 30.1 k, 1%, 0.1 W, 0603	0603

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
156	R174, R257	2	274k	CRCW0402274KFKEA	Vishay-Dale	RES, 274 k, 1%, 0.063 W, 0402	0402
157	R175, R213, R214, R215, R216, R217, R218, R219, R220, R221, R222, R258	12	100k	CRCW0402100KFKEA	Vishay-Dale	RES, 100 k, 1%, 0.063 W, 0402	0402
158	R176	1	5.23k	CRCW06035K23FKEA	Vishay-Dale	RES, 5.23 k, 1%, 0.1 W, 0603	0603
159	R179, R180	2	4.99	CRCW04024R99FKED	Vishay-Dale	RES, 4.99, 1%, 0.063 W, 0402	0402
160	R182, R183, R188, R189	4	2.00k	CRCW04022K00FKED	Vishay-Dale	RES, 2.00 k, 1%, 0.063 W, 0402	0402
161	R184, R185	2	1.21k	CRCW04021K21FKED	Vishay-Dale	RES, 1.21 k, 1%, 0.063 W, 0402	0402
162	R191, R193, R200, R202	4	150	ERA-2AEB151X	Panasonic	RES, 150, 0.1%, 0.063 W, 0402	0402
163	R192, R201	2	37.4	1-1879213-6	TE Connectivity AMP Connect	RES, 37.4, 0.1%, 0.063 W, 0402	0402
164	R194, R196, R197, R199	4	75.0	ERA-2AEB750X	Panasonic	RES, 75.0, 0.1%, 0.063 W, 0402	0402
165	R195, R198	2	121	ERA-2AEB1210X	Panasonic	RES, 121, 0.1%, 0.063 W, 0402	0402
166	R205, R206	2	15.0	CRCW040215R0FKED	Vishay-Dale	RES, 15.0, 1%, 0.063 W, 0402	0402
167	R207, R208	2	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0, 5%, 0.063 W, 0402	0402
168	R209, R210	2	127	CRCW0402127RFKEA	Vishay-Dale	RES, 127, 1%, 0.063 W, 0402	0402
169	R211, R212	2	40.2	CRCW040240R2FKED	Vishay-Dale	RES, 40.2 ohm, 1%, 0.063W, 0402	0402
170	R224, R225, R226, R227, R228	5	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0 k, 1%, 0.063 W, 0402	0402
171	R229, R230	2	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9 ohm, 1%, 0.063W, 0402	0402
172	R231	1	60.4k	CRCW060360K4FKEA	Vishay-Dale	RES, 60.4 k, 1%, 0.1 W, 0603	0603
173	R232	1	39.2k	RC0603FR-0739K2L	Yageo America	RES, 39.2 k, 1%, 0.1 W, 0603	0603
174	R244	1	110k	CRCW0402110KFKEA	Vishay-Dale	RES, 110 k, 1%, 0.063 W, 0402	0402
175	R246	1	80.6k	CRCW060380K6FKEA	Vishay-Dale	RES, 80.6 k, 1%, 0.1 W, 0603	0603
176	R247	1	25.5k	RC0603FR-0725K5L	Yageo America	RES, 25.5 k, 1%, 0.1 W, 0603	0603
177	R248	1	43.2k	RC0603FR-0743K2L	Yageo America	RES, 43.2 k, 1%, 0.1 W, 0603	0603
178	S1	1		L101011MS02Q	C&K Components	SWITCH SLIDE SPST 4A PCB, TH	Slide Switch, TH, SPST
179	SH-1V2ADC_INT_1_2, SH-1V2ADC_LDO_1_2, SH-1V9ADC_1_2, SH-1V9INT_1_2, SH-EXT5V_FMC12V_1_2, SH-FTDI_3P3V_1_2, SH-J2_1_2, SH-LMK_INT_1_2, SH-LMK_LDO_1_2, SH-LMX_INT_1_2, SH-LMX_LDO_1_2, SH-RSV_1_2, SH-Ts ADD1_1_2, Vcmo_2_3	14	1x2	SNT-100-BK-G	Samtec, Inc.	Shunt, 100mil, Gold plated, Black	Shunt



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
180	SPI	1		TSW-104-07-G-D	Samtec, Inc.	Header, TH, 100mil, 4x2, Gold plated, 230 mil above insulator	TSW-104-07-G-D
181	T2	1		TCM2-43X+	Minicircuits	Transformer, RF, 50 ohm, 10 to 4000 MHz, SMT	4.06x4.06x3.81 mm
182	TEMP	1	Red	LTST-C170KRKT	Lite-On	LED, Red, SMD	LED_0805
183	TMST+, TMST-	2		142-0701-231	Emerson Network Power	Connector, TH, SMA	SMA
184	U1	1		LMC6762A1MX/NOPB	Texas Instruments	Dual Micro-Power Rail-to-Rail Input CMOS Comparator with Push-Pull Output, 8-pin Narrow SOIC	M08A
185	U2	1		ADC12J4000NKE	Texas Instruments	ADC12J4000RLY Ultra-Wideband RF Sampling Subsystem, RLY0068A	NKE0068A
186	U3	1		LM95233CISD/NOPB	Texas Instruments	Dual Remote Diode and Local Temperature Sensor with SMBus Interface and TruTherm Technology, 14-pin LLP, Pb-Free	SDA14B
187	U4	1		TRF3765IRHB	Texas Instruments	Integer-N/Fractional-N PLL with Integrated VCO, RHB0032E	RHB0032E
188	U5, U8	2		LP3878MR-ADJ/NOPB	Texas Instruments	Micropower 800mA Low Noise "Ceramic Stable" Adjustable Voltage Regulator for 1V to 5V Applications, 8-pin PSOP, Pb-Free	MRA08A
189	U6	1		LMK04828BISQ/NOPB	Texas Instruments	Low-Noise Clock Jitter Cleaner with Dual Loop PLLs, NKD0064A	NKD0064A
190	U7	1		TPS54327DDA	Texas Instruments	3-A OUTPUT SINGLE SYNCHRONOUS STEP DOWN SWITCHER WITH INTEGRATED FET(SWIFT), DDA0008B	DDA0008B
191	U9	1		LM26400YSDE/NOPB	Texas Instruments	Dual 2A, 500kHz Wide Input Range Buck Regulator, 16-pin LLP, Pb-Free	SDA16A
192	U10	1		TPS74901RGW	Texas Instruments	3.0A Low Dropout Linear Regulator with Programmable Soft-Start, RGW0020A	RGW0020A
193	U11	1		LP38513TJ-ADJ/NOPB	Texas Instruments	3A Fast-Transient Response Adjustable Low-Dropout Linear Voltage Regulator, 5-pin TO-263 Thin, Pb-Free	TJ5A
194	U12, U24	2		SN74AVC4T774PW	Texas Instruments	4-BIT DUAL-SUPPLY BUS TRANSCEIVER WITH CONFIGURABLE VOLTAGE TRANSLATION AND 3-STATE OUTPUTS, PW0016A	PW0016A
195	U13	1		FT4232HL	FTDI	Quad High Speed USB to Multipurpose UART/MPSE IC	LQFP_10x10mm
196	U14	1		TLV70233DBV	Texas Instruments	300-mA, Low-IQ, Low-Dropout Regulator, DBV0005A	DBV0005A
197	U15	1		93LC46B-I/MS	Microchip Technology	1K, 64x16-bit, 2.5V Microwire Serial EEPROM, 8-Pin MSOP, Industrial Temperature	MSOP-MS8
198	U17	1		MC10EP32DG	ON Semiconductor	Divide-by-2 Divider	751-06
199	U18	1	SN74LVC1G125DBV	SN74LVC1G125DBV	TI	IC, Single Bus Buffer Gate With 3-States Output	DBV
200	U19	1		LMH5401IRMSR	Texas Instruments	8GHz Ultra Wideband Fully Differential Amplifier, RMS0014A	RMS0014A
201	U20, U45	2		TPS79301DBVR	Texas Instruments	Single Output High PSRR LDO, 200 mA, Adjustable 1.22 to 5.5 V Output, 2.7 to 5.5 V Input, 6-pin SOT-23 (DBV), -40 to 85 degC, Green (RoHS & no Sb/Br)	DBV0006A
202	U21, U48	2		LMR70503TM/NOPB	Texas Instruments	SIMPLE SWITCHER Buck-Boost Converter For Negative Output Voltage in uSMD, YFX0008ADAC	YFX0008ADAC
203	U22, U42	2		TPS72301DBVR	Texas Instruments	Single Output LDO, 200 mA, Adjustable -10 to -1.2 V Output, -10 to -2.7 V Input, 5-pin SOT-23 (DBV), -40 to 125 degC, Green (RoHS & no Sb/Br)	DBV0005A
204	U23	1		LMH6401IRMZR	Texas Instruments	5 GHz Ultra Wideband Digital Variable Gain Amplifier, RMZ0016A	RMZ0016A
205	U25	1		OPA376AIDCKT	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
206	U26	1		CD74HC14PW	Texas Instruments	High-Speed CMOS Logic Hex Inverting Schmitt Triggers, PW0014A	PW0014A
207	U27, U29	2		DRV777PWR	Texas Instruments	7-bit Integrated Motor and Relay Driver, PW0016A	PW0016A
208	U30, U31, U32, U33, U34, U35, U36, U37, U38, U39	10		LMC555CMM/NOPB	Texas Instruments	CMOS Timer, 8-pin Mini SOIC, Pb-Free	MUA08A
209	U40	1		LMH6559MFX/NOPB	Texas Instruments	High-Speed, Closed-Loop Buffer, DBV0005A	DBV0005A
210	U41	1	SN74LVC1G57DCK	SN74LVC1G57DCK	TI	IC, Configurable Multiple-Function Gate	DCK6
211	U43	1		TPS63060DSC	Texas Instruments	High Input Voltage Buck-Boost Converter with 2 A Switch Current, DSC0010E	DSC0010E
212	U44	1		TPS73201DBVR	Texas Instruments	Cap-Free, NMOS, 250mA Low Dropout Regulator with Reverse Current Protection, DBV0005A	DBV0005A
213	U47	1		TPS2400DBVR	Texas Instruments	OVERVOLTAGE PROTECTION CONTROLLER, DBV0005A	DBV0005A

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
214	USB	1		651-305-142-821	Wurth Elektronik eiSos	MINI USB 2.0 SMT TYPE AB 5 CONTACTS R/A, SMD	9.2x9.9x4 mm
215	uWIRE	1		N2510-6002-RB	3M	Connector, 100mil Shrouded, 5x2, High-Temperature, Gold, TH	5x2 Shrouded header
216	VIN	1	50 Ohm	142-0701-806	Emerson Network Power	Connector, SMT, End launch SMA 50 ohm	SMA
217	Y1	1		CWX813-100.0M	Connor-Winfield	OSC 100.0000MHZ 3.3V +/-25PPM SMD	7x1.3x5mm
218	Y2	1		ABM3-12.000MHZ-B2-T	Abracon Corporation	Crystal, 12Mhz, 18pF, SMD	ABM3
219	C30, C36	0	0.22uF	C0603X5R0J224M	TDK	CAP, CERM, 0.22uF, 6.3V, +/-20%, X5R, 0201	0201
220	C85, C86, C87, C114, C123, C231, C235, C250, C251	0	0.1uF	C1005X5R1A104K	TDK	CAP, CERM, 0.1uF, 10V, +/-10%, X5R, 0402	0402
221	C90, C91, C92, C93, C262, C263	0	4700pF	GRM033R61A472KA01D	MuRata	CAP, CERM, 4700pF, 10V, +/-10%, X5R, 0201	0201
222	C230, C234	0	47pF	GRM1885C1H470JA01D	MuRata	CAP, CERM, 47pF, 50V, +/-5%, COG/NP0, 0603	0603
223	C247	0	2.2pF	GRM1555C1H2R2CA01D	MuRata	CAP, CERM, 2.2pF, 50V, +/-5%, COG/NP0, 0402	0402
224	C370, C371, C372, C373, C374, C375, C376, C377, C378, C379, C380, C381	0	N/A	Used in BOM report	Used in BOM report	CAP, CERM, xxxF, xxV, [TempCo], xx%, [PackageReference]	Used in PnP output and some BOM reports
225	F1	0		1206SFF200F/63-2	TE Connectivity	Fuse, 2 A, 63 V, SMD	1206
226	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
227	R7, R8, R9, R18, R21, R22, R23	0	0	ERJ-1GE0R00C	Panasonic	RES, 0 ohm, 5%, 0.05W, 0201	0201
228	R24	0	10.0k	CRCW040210K0FKED	Vishay-Dale	RES, 10.0k ohm, 1%, 0.063W, 0402	0402
229	R26, R29, R36, R146	0	0	ERJ-2GE0R00X	Panasonic	RES, 0 ohm, 5%, 0.063W, 0402	0402
230	R30, R153	0	49.9	CRCW040249R9FKED	Vishay-Dale	RES, 49.9 ohm, 1%, 0.063W, 0402	0402
231	R40, R42, R73, R75, R83, R84, R92, R95	0	0.002	CSNL1206FT2L00	Stackpole Electronics Inc	RES, 0.002 ohm, 1%, 1W, 1206	1206
232	R50, R239, R240, R241	0	N/A	Used in BOM report	Used in BOM report	RES, xxx ohm, x%, xW, [PackageReference]	Used in PnP output
233	R54, R55, R57, R58, R69, R119, R120, R121, R126, R127	0	100	CRCW0603100RJNEA	Vishay-Dale	RES, 100 ohm, 5%, 0.1W, 0603	0603
234	R90	0	402	RC0603FR-07402RRL	Yageo America	RES, 402 ohm, 1%, 0.1W, 0603	0603
235	R104, R116, R128, R129	0	24k	CRCW040224K0JNED	Vishay-Dale	RES, 24k ohm, 5%, 0.063W, 0402	0402
236	R139, R140, R141	0	2.0k	CRCW06032K00JNEA	Vishay-Dale	RES, 2.0k ohm, 5%, 0.1W, 0603	0603
237	R142	0	0	ERJ-3GEY0R00V	Panasonic	RES, 0 ohm, 5%, 0.1W, 0603	0603
238	R151	0	0	CRCW06030000Z0EA	Vishay-Dale	RES, 0 ohm, 5%, 0.1W, 0603	0603
239	R165	0	51	CRCW040251R0JNED	Vishay-Dale	RES, 51 ohm, 5%, 0.063W, 0402	0402
240	R178	0	0	CRCW04020000Z0ED	Vishay-Dale	RES, 0 ohm, 5%, 0.063W, 0402	0402
241	U16	0				64Kbit, 400kHz, 4.5V, I2C Serial EEPROM, 8-Pin SOIC 208mil, Commercial Temperature, Tape and Reel	SOIJ-SM8

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