

Variant: 001  
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 TID #: TIDA-010032



## TIDA-010032 REV A Bill of Materials

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
1	IPC	1		TIDA-010032	Any	Printed Circuit Board	
2	C1, C3, C5	3	0.1uF	C0603C104J4RACTU	Kemet	CAP, CERM, 0.1uF, 16V, +/-5%, X7R, 0603	0603
3	C2, C4	2	10uF	C0603C106M9PACTU	Kemet	CAP, CERM, 10 uF, 6.3 V, +/- 20%, X5R, 0603	0603
4	D1, D2	2	5.6V	1SMB5919BT3G	ON Semiconductor	Diode, Zener, 5.6 V, 550 mW, SMB	SMB
5	D3	1	7V	CDSOT23-SM712	Bourns	Diode, TVS, Bi, 7 V, SOT-23	SOT-23
6	DGND, SPI, VDD_3V3B, VDD_5V	4		PBC04SAAN	Sullins Connector Solutions	Header, 2.54 mm, 4x1, Gold, TH	Header, 2.54 mm, 4x1, TH
7	GPIO, UART4	2		PBC03SAAN	Sullins Connector Solutions	Header, 100mil, 3x1, Gold, TH	PBC03SAAN
8	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
9	H5, H6, H7, H8	4		1902C	Keystone	Standoff, Hex, 0.5"L #4-40 Nylon	Standoff
10	I2C1, I2C2	2		PBC02SAAN	Sullins Connector Solutions	Header, 100mil, 2x1, Gold, TH	Sullins 100mil, 1x2, 230 mil above insulator
11	J1, J2	2		SSQ-110-23-L-D	Samtec	Receptacle, 2.54mm, 10x2, Gold, TH	Receptacle, 2.54mm, 10x2, TH
12	J3	1		1725669	Phoenix Contact	Terminal Block, 3x1, 2.54 mm, TH	Terminal Block, 3x1, 2.54 mm, TH
13	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"H x 0.200"W
14	P8, P9	2		PBC23DFAN	Sullins Connector Solutions	Header, 100 mil, 23x2, Gold, TH	Header, 100mil, 23x2, TH
15	R1, R2, R3, R4, R8	5	0	ERJ-3GEY0R00V	Panasonic	RES, 0, 5%, 0.1 W, AEC-Q200 Grade 0, 0603	0603
16	R5	1	120	CRCW0603120RJNEA	Vishay-Dale	RES, 120 ohm, 5%, 0.1W, 0603	0603
17	R6, R7	2	10.0	CRCW251210R0FKEG	Vishay-Dale	RES, 10.0, 1%, 1 W, AEC-Q200 Grade 0, 2512	2512
18	RS485_GND	1		TSW-102-07-T-S	Samtec	Header, 2.54 mm, 2x1, Tin, TH	Header, 2.54 mm, 2x1, TH
19	SDIO	1		M20-9961045	Harwin	Header, 2.54 mm, 10x1, TH	Header, 2.54 mm, 10x1, TH
20	U1	1		ISOW7841FDWER	Texas Instruments	High-Efficiency, Low-Emissions, Reinforced Digital Isolator With Integrated Power, DWE0016A (SO-MOD-16)	DWE0016A
21	U2	1		THVD1500DR	Texas Instruments	250 kbps RS-485 Transceivers With +/-12-kV IEC ESD Protection, D0008A (SOIC-8)	D0008A
22	U3, U4, U5	3		SN74LV1T34DBVR	Texas Instruments	Single Power Supply BUFFER Logic Level Shifter (no enable), DBV0005A (SOT-5)	DBV0005A
23	FID1, FID2, FID3	0		N/A	N/A	Fiducial mark. There is nothing to buy or mount.	Fiducial
24	C1 C9 C41 C88 C89	5	12pF	GRM1555C1H120JA01D	MURATA	CAPACITOR, CERAMIC C0G/NP0, 12pF, 50V, -5%/+5%, -55DEGC/+125DEGC, 0402, SMD	LAUNCHXL-CC1312R1
25	C2 C3 C4 C7 C50 C108 C166	7	10nF	GRM155R71E103KA01D	MURATA	CAPACITOR, CERAMIC X7R, 10nF, 25V, -10%/+10%, -55DEGC/+125DEGC, 0402, SMD	LAUNCHXL-CC1312R1
26	C6 C78 C79 C80 C83 C84 C87	7	100nF	GRM033R61A104KE84D	MURATA	CAPACITOR, CERAMIC X5R, 100nF, 10V, -10%/+10%, -55DEGC/+85DEGC, 0201, SMD	LAUNCHXL-CC1312R1

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27	C8 C12 C14 C15 C17 C19 C20 C24 C30 C38 C39 C43 C46 C52 C70 C71 C72 C73 C74 C75 C110 C114 C115 C116 C118 C119 C120 C125 C126 C127 C139 C140 C141 C152 C154 C158 C161 C162 C164 C167 C175	41	0.1uF	GRM155R71E104KE14D	MURATA	CAPACITOR, CERAMIC X7R, 0.1uF, 25V, -10%/+10%, -55DEGC/+125DEGC, 0402, SMD	LAUNCHXL-CC1312R1
28	C11 C21	2	3.6pF	GRM1555C1H3R6CA01D	MURATA	CAPACITOR, CERAMIC C0G/NP0, 3.6pF, 50V, -0.25pF/+0.25pF, -55DEGC/+125DEGC, 0402, SMD	LAUNCHXL-CC1312R1
29	C16 C18 C113 C156 C168 C174	6	22uF	GRM188R60J226MEA0D	MURATA	CAPACITOR, CERAMIC, X5R, 22uF, 6.3V, -20%/+20%, -55DEGC/+85DEGC, 0603, SMD	LAUNCHXL-CC1312R1
30	C25 C130	2	1nF	GRM155R71H102KA01D	MURATA	CAPACITOR, CERAMIC X7R, 1nF, 50V, -10%/+10%, -55DEGC/+125DEGC, 0402, SMD	LAUNCHXL-CC1312R1
31	C31 C36	2	100pF	GRM1555C1H101JA01D	MURATA	CAPACITOR, CERAMIC C0G/NP0, 100pF, 50V, -5%/+5%, -55DEGC/+125DEGC, 0402, SMD	LAUNCHXL-CC1312R1
32	C33	1	2.7pF	GRM1555C1H2R7CA01D	MURATA	CAPACITOR, CERAMIC C0G/NP0, 2.7pF, 50V, -0.25pF/+0.25pF, -55DEGC/+125DEGC, 0402, SMD	LAUNCHXL-CC1312R1
33	C34	1	6.2pF	GRM1555C1H6R2CA01D	MURATA	CAPACITOR, CERAMIC C0G/NP0, 6.2pF, 50V, -0.25pF/+0.25pF, -55DEGC/+125DEGC, 0402, SMD	LAUNCHXL-CC1312R1
34	C35	1	3pF	GRM1555C1H3R0CA01D	MURATA	CAPACITOR, CERAMIC C0G/NP0, 3pF, 50V, -0.25pF/+0.25pF, -55DEGC/+125DEGC, 0402, SMD	LAUNCHXL-CC1312R1
35	C40 C42 C44 C53 C109 C128 C133 C136 C137 C138 C145	11	1uF	GRM155R61C105KA12D	MURATA	CAPACITOR, CERAMIC X5R, 1uF, 16V, -10%/+10%, -55DEGC/+85DEGC, 0402, SMD	LAUNCHXL-CC1312R1
36	C45 C48 C49 C143 C144 C149 C151 C155 C157 C159 C160 C163 C171 C173	14	2.2uF	GRM155R61E225KE11D	MURATA	CAPACITOR, CERAMIC X5R, 2.2uF, 25V, -10%/+10%, -55DEGC/+85DEGC, 0402, SMD	LAUNCHXL-CC1312R1
37	C47 C51 C153 C172	4	15pF	GRM1555C1H150JA01D	MURATA	CAPACITOR, CERAMIC C0G/NP0, 15pF, 50V, -5%/+5%, -55DEGC/+125DEGC, 0402, SMD	LAUNCHXL-CC1312R1
38	C85 C86	2	4.7uF	GRM155R60J475ME87D	MURATA	CAPACITOR, CERAMIC X5R, 4.7uF, 6.3V, -20%/+20%, -55DEGC/+85DEGC, 0402, SMD	LAUNCHXL-CC1312R1
39	C106	1	0.1uF	GRM155R71H104KE14D	MURATA	CAPACITOR, CERAMIC X7R, 0.1uF, 50V, -10%/+10%, -55DEGC/+125DEGC, 0402, SMD	LAUNCHXL-CC1312R1
40	C107	1	33nF	GRM155R71E333KA88D	MURATA	CAPACITOR, CERAMIC X7R, 33nF, 25V, -10%/+10%, -55DEGC/+125DEGC, 0402, SMD	LAUNCHXL-CC1312R1
41	C111	1	3.3uF	GRM188R61A335KE15D	MURATA	CAPACITOR, CERAMIC X5R, 3.3uF, 10V, -10%/+10%, -55DEGC/+85DEGC, 0603, SMD	LAUNCHXL-CC1312R1
42	C112	1	220uF	TPSE227M010R0100	AVX	CAPACITOR, TANTALUM, 220uF, 10V, -20%/+20%, -55DEGC/+125DEGC, 7343-43, SMD	LAUNCHXL-CC1312R1
43	C117 C121 C122 C142 C147 C165	6	10uF	CL21B106KQNNNE	SAMSUNG ELECTRO-MECHANICS	CAPACITOR, CERAMIC X7R, 10uF, 16V, -10%/+10%, -55DEGC/+125DEGC, 0805, SMD	LAUNCHXL-CC1312R1
44	C123 C135	2	270pF	GRM1555C1H271FA01D	MURATA	CAPACITOR, CERAMIC C0G/NP0, 270pF, 50V, -1%/+1%, -55DEGC/+125DEGC, 0402, SMD	LAUNCHXL-CC1312R1
45	C129	1	470pF	GRM155R71H471KA01D	MURATA	CAPACITOR, CERAMIC X7R, 470pF, 50V, -10%/+10%, -55DEGC/+125DEGC, 0402, SMD	LAUNCHXL-CC1312R1
46	C131	1	22nF	GRM155R71E223KA61D	MURATA	CAPACITOR, CERAMIC X7R, 22nF, 25V, -10%/+10%, -55DEGC/+125DEGC, 0402, SMD	LAUNCHXL-CC1312R1

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47	C146	1	47uF	GRM21BR61A476ME15L	MURATA	CAPACITOR, CERAMIC X5R, 47uF, 10V, -20%/+20%, -55DEGC/+85DEGC, 0805, SMD	LAUNCHXL-CC1312R1
48	CR1 CR5	2	LPL296-J2L2-25	LP L296-J2L2-25	OSRAM	OPTO, LED, GREEN, 562nm, 2V, 0.02A, 0.08W, 0603, SMD	LAUNCHXL-CC1312R1
49	CR2 CR4	2	LS L296-P2Q2-1	LS L296-P2Q2-1	OSRAM	OPTO, LED, RED, 630nm, 2V, 0.02A, 0603, SMD	LAUNCHXL-CC1312R1
50	CR6	1	TPD4E004 DRY	TPD4E004DRYR	Texas Instruments	DIODE, PROTECTION, ESD ARRAY - 4 CHANNELS, UNI, 6V TO 8V, -40DEGC/+85DEGC, SON6, SMD	LAUNCHXL-CC1312R1
51	CR7 CR8	2	TPD6E004 RSER	TPD6E004RSER	Texas Instruments	DIODE, PROTECTION, ESD ARRAY - 6 CHANNELS, 7V, -40DEGC/+85DEGC, QFN8, SMD	LAUNCHXL-CC1312R1
52	CR15	1	NRVB130T1G	NRVB130T1G	ON SEMICONDUCTOR	DIODE, SCHOTTKY, 1A, 30V, -65DEGC/+125DEGC, SOD-123, SMD	LAUNCHXL-CC1312R1
53	FL1 FL2 FL3	3	BLM18HE152SN1	BLM18HE152SN1D	MURATA	FILTER, EMI, FERRITE BEAD, 1500@100MHz, -25%/+25%, -55DEGC/+125DEGC, 0603, SMD	LAUNCHXL-CC1312R1
54	FL4 FL5 FL6	3	BLM21PG21SN1	BLM21PG221SN1D	MURATA	FILTER, EMI, FERRITE BEAD, 220@100MHz, -25%/+25%, -55DEGC/+125DEGC, 0805, SMD	LAUNCHXL-CC1312R1
55	J1 J2	2	SSQ-110-23-L-D	SSQ-110-23-L-D	SAMTEC	CONNECTOR, HEADER, FEMALE, STRAIGHT, 2 ROWS, 20 PINS, 2.54mm, PTH	LAUNCHXL-CC1312R1
56	J6	1	105164-0001	105164-0001	MOLEX	CONNECTOR, USB, FEMALE, RIGHT ANGLE, 1 ROW, 5 PINS, PITCH 0.65mm, SMD	LAUNCHXL-CC1312R1
57	J7	1	SMA-10V21-TGG	SMA-10V21-TGG	HUS-TSAN	CONNECTOR, COAX, RF, FEMALE, STRAIGHT, 1 PIN, SMD	LAUNCHXL-CC1312R1
58	L10	1	6.8uH	MLZ2012N6R8LT000	TDK	INDUCTOR, STANDARD, FERRITE CORE, 6.8uH, -20%/+20%, 0.11A, -55DEGC/+125DEGC, 0805, SMD	LAUNCHXL-CC1312R1
59	L11 L32	2	7.5nH	LQG15HS7N5J02D	MURATA	INDUCTOR, RF, CHIP, NON-MAGNETIC CORE, 7.5nH, -5%/+5%, 0.3A, -55DEGC/+125DEGC, 0402, SMD	LAUNCHXL-CC1312R1
60	L12	1	27nH	LQG15HS27NJ02D	MURATA	INDUCTOR, RF, CHIP, NON-MAGNETIC CORE, 27nH, -5%/+5%, 0.3A, -55DEGC/+125DEGC, 0402, SMD	LAUNCHXL-CC1312R1
61	L33 L34	2	6.8nH	LQG15HS6N8J02D	MURATA	INDUCTOR, RF, CHIP, NON-MAGNETIC CORE, 6.8nH, -5%/+5%, 0.3A, -55DEGC/+125DEGC, 0402, SMD	LAUNCHXL-CC1312R1
62	M1 M2 M3 M4 M5 M6 M7 M8 M9 M10 M11 M12 M13 M14	14	SNT-100-BK-G	SNT-100-BK-G	SAMTEC	MECHANIC, SHUNT, CURRENT RATING 4.3A PER PIN, 2.54 X 5.08 X 6.1mm, BLACK	LAUNCHXL-CC1312R1
63	M15 M16 M17 M18	4	DCB-10	DCB-10	SUZHOU SOLY ELECTRICIAN	MECHANIC, ACCESSORY, SPACER SUPPORT, PCB DIA. 3mm, NYLON 66, PTH	LAUNCHXL-CC1312R1
64	P1 P2 P10	3	BB02-HC031-KB1-603000	BB02-HC031-KB1-603000	GRADCONN	CONNECTOR, HEADER, MALE, STRAIGHT, 1 ROW, 3 PINS, PITCH 2.54mm, PTH	LAUNCHXL-CC1312R1
65	P4	1	BB02-HJ221-KB1-603000	BB02-HJ221-KB1-603000	GRADCONN	CONNECTOR, HEADER, MALE, STRAIGHT, 2 ROWS, 22 PINS, PITCH 2.54mm, PTH	LAUNCHXL-CC1312R1
66	P5 P7	2	FTSH-105-01-F-DV-K	FTSH-105-01-F-DV-K	SAMTEC	CONNECTOR, HEADER, MALE, STRAIGHT, 2 ROWS, 10 PINS, PITCH 1.27mm, SMD	LAUNCHXL-CC1312R1
67	P6	1	BB02-HJ041-KB1-603000	BB02-HJ041-KB1-603000	GRADCONN	CONNECTOR, HEADER, MALE, STRAIGHT, 2 ROWS, 4 PINS, PITCH 2.54mm, PTH	LAUNCHXL-CC1312R1
68	PCB1	1	As Per Fab Drawing-WCS042	WCS042	Any	NON COMPONENT, PCB, TEXAS INSTRUMENTS	LAUNCHXL-CC1312R1
69	R1 R61 R62 R63 R65 R96 R97 R98 R105 R114 R117 R118 R119 R136	14	100k	CRCW0402100KJNED	VISHAY	RESISTOR, THICK FILM, 100k, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
70	R2 R3 R58	3	3.3k	CRCW04023K30JNED	VISHAY	RESISTOR, THICK FILM, 3.3k, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1

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71	R5 R6 R9 R99 R100 R108 R131	7	0	CRCW04020000Z0ED	VISHAY	RESISTOR, THICK FILM, 0, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
72	R11 R130	2	2.2k	CRCW04022K20FKED	VISHAY	RESISTOR, THICK FILM, 2.2k, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
73	R14 R25	2	220	CRCW0402220RJNED	VISHAY	RESISTOR, THICK FILM, 220, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
74	R15 R23	2	180	CRCW0402180RJNED	VISHAY	RESISTOR, THICK FILM, 180, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
75	R17	1	10k	CRCW040210K0JNED	VISHAY	RESISTOR, THICK FILM, 10k, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
76	R18 R126 R156	3	4.7k	CRCW04024K70FKED	VISHAY	RESISTOR, THICK FILM, 4.7k, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
77	R20 R55 R56 R57	4	100	CRCW0402100RJNED	VISHAY	RESISTOR, THICK FILM, 100, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
78	R27 R29 R30 R39	4	1k	CRCW04021K00JNED	VISHAY	RESISTOR, THICK FILM, 1k, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
79	R28	1	4.87k	CRCW04024K87FKED	VISHAY	RESISTOR, THICK FILM, 4.87k, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
80	R31	1	51	CRCW040251R0JNED	VISHAY	RESISTOR, THICK FILM, 51, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
81	R32	1	33k	CRCW040233K0FKED	VISHAY	RESISTOR, THICK FILM, 33k, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
82	R33 R132 R151	3	51k	CRCW040251K0JNED	VISHAY	RESISTOR, THICK FILM, 51k, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
83	R34 R133 R135 R152	4	30k	CRCW040230K0JNED	VISHAY	RESISTOR, THICK FILM, 30k, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
84	R12 R48 R49 R51 R52	5	0	CRCW06030000Z0EC	VISHAY	RESISTOR, THICK FILM, 0, 0R/+0.02R, 0.1W, 75V, -55DEGC/+155DEGC, 0603, SMD	LAUNCHXL-CC1312R1
85	R82 R83 R92	3	10k	CRCW020110K0JNED	VISHAY	RESISTOR, THICK FILM, 10k, -5%/+5%, 0.05W, 30V, -55DEGC/+155DEGC, 0201, SMD	LAUNCHXL-CC1312R1
86	R84	1	12k	CRCW020112K0FKED	VISHAY	RESISTOR, THICK FILM, 12k, -1%/+1%, 0.05W, 30V, -55DEGC/+155DEGC, 0201, SMD	LAUNCHXL-CC1312R1
87	R87 R154	2	1M	CRCW04021M00FKED	VISHAY	RESISTOR, THICK FILM, 1M, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
88	R90 R91	2	1k	CRCW02011K00JNED	VISHAY	RESISTOR, THICK FILM, 1k, -5%/+5%, 0.05W, 30V, -55DEGC/+155DEGC, 0201, SMD	LAUNCHXL-CC1312R1
89	R93	1	20k	CRCW020120K0JNED	VISHAY	RESISTOR, THICK FILM, 20k, -5%/+5%, 0.05W, 30V, -55DEGC/+155DEGC, 0201, SMD	LAUNCHXL-CC1312R1
90	R94	1	22	CRCW040222R0JNED	VISHAY	RESISTOR, THICK FILM, 22, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
91	R95 R101 R109 R120	4	1.2k	CRCW04021K20FKED	VISHAY	RESISTOR, THICK FILM, 1.2k, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
92	R102 R110	2	330	CRCW0402330RFKED	VISHAY	RESISTOR, THICK FILM, 330, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
93	R103 R112	2	4.99	CRCW04024R99FKED	VISHAY	RESISTOR, THICK FILM, 4.99, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
94	R104 R113 R153	3	10	CRCW040210R0FKED	VISHAY	RESISTOR, THICK FILM, 10, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
95	R107	1	1	CRCW12181R00FNEK	VISHAY	RESISTOR, THICK FILM, 1, -1%/+1%, 1W, 200V, -55DEGC/+155DEGC, 1218, SMD	LAUNCHXL-CC1312R1
96	R116 R134	2	60.4k	CRCW040260K4FKED	VISHAY	RESISTOR, THICK FILM, 60.4k, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
97	R121	1	22k	CRCW040222K0JNED	VISHAY	RESISTOR, THICK FILM, 22k, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
98	R122	1	0.22	RCWE0402R220FKEA	VISHAY	RESISTOR, THICK FILM, 0.22, -1%/+1%, 0.125W, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1

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99	R123	1	82	CRCW120682R0FKEA	VISHAY	RESISTOR, THICK FILM, 82, -1%/+1%, 0.25W, 200V, -55DEGC/+155DEGC, 1206, SMD	LAUNCHXL-CC1312R1
100	R125	1	36.5	CRCW121036R5FKEA	VISHAY	RESISTOR, THICK FILM, 36.5, -1%/+1%, 0.5W, 200V, -55DEGC/+155DEGC, 1210, SMD	LAUNCHXL-CC1312R1
101	R127 R128 R129	3	47k	CRCW040247K0JNED	VISHAY	RESISTOR, THICK FILM, 47k, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
102	R137	1	2.61k	CRCW04022K61FKED	VISHAY	RESISTOR, THICK FILM, 2.61k, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
103	R155	1	390k	CRCW0402390KJNED	VISHAY	RESISTOR, THICK FILM, 390k, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	LAUNCHXL-CC1312R1
104	SW1 SW2 SW3	3	1188E-1K2	1188E-1K2-V-TR	DIPTRONICS	SWITCH, TACT, 0.05A@12VDC, 0.05A@250VAC, SMD	LAUNCHXL-CC1312R1
105	U1	1	CC1312R1 F3RGZ	CC1312R1F3RGZ	Texas Instruments	IC, MICROCONTROLLER, TEXAS INSTRUMENTS, CUSTOM, CC1312R1F3RGZ, 1.8V TO 3.8V, VQFN48, SMD	LAUNCHXL-CC1312R1
106	U4	1	MX25R803 5FZUILO	MX25R8035FZUILO	MACRONIX	IC, MEMORY, FLASH, SERIAL, 8Mbit, 1.65V TO 3.6V, USON8, SMD	LAUNCHXL-CC1312R1
107	U6	1	LM4040B25 IDCK	LM4040B25IDCKR	Texas Instruments	IC, ANALOG, PRECISION MICROPOWER SHUNT VOLTAGE REFERENCE, 2.5V, SC70-5, SMD	LAUNCHXL-CC1312R1
108	U7 U42 U46	3	TPS79601D R	TPS79601DRBR	Texas Instruments	IC, ANALOG, ULTRALOW-NOISE, HIGH PSRR, FAST, RF, 1A LOW-DROPOUT LINEAR REGULATORS, VIN:2.7V TO 5.5V, VOUT:1.2V TO 5.5V, SON8, SMD	LAUNCHXL-CC1312R1
109	U8 U9 U10	3	SN74AVC4 T245RSV	SN74AVC4T245RSVR	Texas Instruments	IC, DIGITAL, LOGIC, 4bit DUAL-SUPPLY BUS TRANSCEIVER 3 STATE OUTPUT, 1.2V TO 3.6V, UQFN16, SMD	LAUNCHXL-CC1312R1
110	U15	1	USB3300-EZK	USB3300-EZK	MICROCHIP	IC, DIGITAL, INTERFACE, HI-SPEED USB HOST, 3.3V, QFN32-EP, SMD	LAUNCHXL-CC1312R1
111	U33 U38	2	TS3A24159 DRC	TS3A24159DRCR	Texas Instruments	IC, ANALOG, 0.3R DUAL SPDT ANALOG SWITCH DUAL-CHANNEL 2:1 MULTIPLEXER/DEMULTIPLEXER, 1.65V TO 3.6V, SON10-EP, SMD	LAUNCHXL-CC1312R1
112	U34	1	SN74LVC2 G74DCU	SN74LVC2G74DCUR	Texas Instruments	IC, DIGITAL, LOGIC, D-TYPE FLIP-FLOP WITH CLEAR AND PRESET, 1.65V TO 5.5V, VSSOP8, SMD	LAUNCHXL-CC1312R1
113	U35	1	ADS127L01 IPBS	ADS127L01IPBS	Texas Instruments	IC, MIXED, 24-BIT WIDE-BANDWIDTH ANALOG TO DIGITAL CONVERTER, 2.7V TO 3.6V/1.7V TO 3.6V, TQFP32, SMD	LAUNCHXL-CC1312R1
114	U36	1	INA118UB	INA118UB	Texas Instruments	IC, ANALOG, INSTRUMENTATION AMPLIFIER, +/-15V, SO8, SMD	LAUNCHXL-CC1312R1
115	U37	1	THS4551IR UN	THS4551IRUNR	Texas Instruments	IC, ANALOG, LOW NOISE, PRECISION, 150MHZ, FULLY DIFFERENTIAL AMPLIFIER, 2.7V TO 5.4V, QFN10-EP, SMD	LAUNCHXL-CC1312R1
116	U39	1	TS3A4751R UCR	TS3A4751RUCR	Texas Instruments	IC, ANALOG, 0.9R LOW-VOLTAGE SINGLE-SUPPLY QUAD SPST ANALOG SWITCH, 1.6V TO 3.6V, QFN14, SMD	LAUNCHXL-CC1312R1
117	U40	1	REF6025ID GK	REF6025IDGKR	Texas Instruments	IC, ANALOG, HIGH PRECISION VOLTAGE REFERENCE, VIN:3V TO 5.5V, VOUT:2.5V, VSSOP8, SMD	LAUNCHXL-CC1312R1
118	U41	1	OPA320AID BV	OPA320AIDBVT	Texas Instruments	IC, ANALOG, RAIL-TO-RAIL I/O CMOS OPERATIONAL AMPLIFIER, -/+0.9V TO 5.5V, SOT23-5, SMD	LAUNCHXL-CC1312R1
119	U43	1	LP5907MF X-1.8	LP5907MFX-1.8/NOPB	Texas Instruments	IC, ANALOG, 0.25A LINEAR REGULATOR FOR RF AND ANALOG CIRCUITS-REQUIRES NO BYPASS CAPACITOR, VIN:2.2V TO 5.5V, VOUT: 1.8V, SOT23-5, SMD	LAUNCHXL-CC1312R1
120	U44	1	TPS73101D BV	TPS73101DBVR	Texas Instruments	IC, ANALOG, 0.15A LOW DROPOUT REGULATOR WITH REVERSE CURRENT PROTECTION, VIN:1.7V TO 5.5V, VOUT:1.2V TO 5.5V, SOT23-5, SMD	LAUNCHXL-CC1312R1
121	U47	1	TPS259530 DSG	TPS259530DSGR	Texas Instruments	IC, ANALOG, EFUSE WITH FAST OVERVOLTAGE PROTECTION, 2.7V TO 18V, WSON8-EP, SMD	LAUNCHXL-CC1312R1
122	U5	1	TM4C1294 NCPDTT3R	TM4C1294NCPDTT3R	Texas Instruments	IC, MICROCONTROLLER, TIVA C SERIES, ARM CRTEX-M4, 2.97V TO 3.63V, TQFP128, SMD	LAUNCHXL-CC1312R1
123	Y1	1	32.768kHz	FC-135 32.7680KA-AG0	EPSON	CRYSTAL, RESONATOR, 32.768kHz, -40DEGC/+85DEGC, SMD	LAUNCHXL-CC1312R1
124	Y2	1	48MHz	NX2016SA 48.000MHz EXS00A-CS05517	NDK	CRYSTAL, RESONATOR, 48MHz, -20PPM/+20PPM, -40DEGC/+85DEGC, SMD	LAUNCHXL-CC1312R1
125	Y3	1	16MHz	NX3225GA-16.000M-STD-CRG-1	NDK	CRYSTAL, RESONATOR, 16MHz, -30PPM/+30PPM, -40DEGC/+85DEGC, SMD	LAUNCHXL-CC1312R1
126	Y4	1	24MHz	FA-238 24.0000MB50X-W0	EPSON	CRYSTAL, RESONATOR, 24MHz, -50PPM/+50PPM, -40DEGC/+85DEGC, SMD	LAUNCHXL-CC1312R1

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
127	Y6	1	16.384MHz	636L3C016M38400	CTS COMPONENTS	CRYSTAL, OSCILLATOR, XO, 16.384MHz, -50PPM/+50PPM, 3.3V, -20DEGC/+70DEGC, SMD	LAUNCHXL-CC1312R1
128	Y7	1	48MHz	TG2016SMN 48.000000MHz TCGNNM (X1G005441011611)	EPSON	CRYSTAL, OSCILLATOR, TCXO, 48MHz, -0.5PPM/+0.5PPM, 1.8V TO 3.3V, -40DEGC/+85DEGC, SMD	LAUNCHXL-CC1312R1
129	Z60	1	3.3nH	LQW15AN3N3D10D	MURATA	INDUCTOR, RF, CHIP, NON-MAGNETIC CORE, 3.3nH, -0.5nH/+0.5nH, 0.9A, -55DEGC/+125DEGC, 0402, SMD	LAUNCHXL-CC1312R1
130	Z63	1	5.6pF	GRM0335C1H5R6BA01J	MURATA	CAPACITOR, CERAMIC C0G/NP0, 5.6pF, 50V, -0.1pF/+0.1pF, -55DEGC/+125DEGC, 0201, SMD	LAUNCHXL-CC1312R1
131		1		10UM-02103BK	CableWholesale	3' USB Cable, 5pin AB to Type A	BeagleBone Black
132		1		10035	3M	ESD Bag	BeagleBone Black
133		1				BOX	BeagleBone Black
134		1				BeagleBoneBlack PCB Assy Rev C	BeagleBone Black
135		1			Various	3.5" x 2.15" 6 Layer PCB, REV B6	BeagleBone Black
136	C1,C2,C4,C7,C8, C9,C10,C11,C12, C13,C14,C15,C39, C40,C55,C62,C7 7,C95,C96,C118, C122,C126,C133, C153	24		C2012Y5V1A106Z	TDK	CAP CER 10UF 10V Y5V 0805	BeagleBone Black
				GRM21BR71A106KE51L	Murata		BeagleBone Black
137	C89,C90,C91,C10 4,C106,C134	8		JMK105BJ105KV-F	Tayo Yuden	CAP CER 1UF 6.3V 10% X5R 0402	BeagleBone Black
				C1005X5R0J105K	TDK		BeagleBone Black
				NMC0402X5R105K6.3TRPF	NIC		BeagleBone Black
				GRM155R60J105KE19D	Murata		BeagleBone Black
138	C16,C17,C18,C12 5,C144,C146,C14 8,C151,C24	9		C1005X5R0J225K	TDK	CAP CER 2.2UF 6.3V 10% X5R 0402	BeagleBone Black
				C1005X5R0J225K050BC	TDK		BeagleBone Black
				04026D225KAT2A	AVX		BeagleBone Black
139	C19,C136	2		CC0402KRX7R9BB471	Yageo	CAP CER 470PF 50V 10% X7R 0402	BeagleBone Black
				GRM155R71H471KA01D	Murata		BeagleBone Black

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
140	C3,C20,C27,C28, C29,C30,C31,C33 ,C35,C36,C37,C3 8,C41,C42,C43,C 44,C45,C46,C47, C48,C49,C50,C51 ,C52,C53,C54,C5 6,C57,C58,C59,C 60,C61,C63,C64, C65,C66,C67,C68 ,C69,C70,C71,C7 2,C73,C74,C75,C 76,C78,C79,C80, C81,C82,C83,C84 ,C85,C86,C87,C8 8,C92,C93,C94,C 97,C98,C99,C100 ,C101,C102,C103 ,C105,C106,C107 ,C108,C109,C110 ,C111,C112,C113 ,C114,C115,C116 ,C117,C119,C120 ,C121,C124,C127 ,C128,C129,C130 ,C131,C132,C135 ,C145,C147,C149 ,C150,C152,C154 ,C155,C158,C159	99		C1005X5R0J104K	TDK	CAP CER 0.1UF 6.3V 10% X5R 0402	BeagleBone Black
				GRM155R60J104KA01D	Murata		BeagleBone Black
				NMC0402X5R104K6.3TRPF	NIC		BeagleBone Black
				C0402C104K9PACTU	Kemet		BeagleBone Black
				C1005X5R0J104K050BA	TDK		BeagleBone Black
141	C21,C22,C25,C26	4		C1005C0G1H180J	TDK	CAP CER 18PF 50V C0G 5% 0402	BeagleBone Black
				GRM1555C1H180JZ01D	Murata		BeagleBone Black
				NMC0402NPO180J50TRPF	NIC		BeagleBone Black
				GRM1555C1H180JA01D	Murata		BeagleBone Black
142	C32,C123	2		CC0402KRX7R7BB102	Yageo	CAP_CER_0.001UF_16V_X7R_0402	BeagleBone Black
143	C34	1		AVE107M06D16T-F	Cornell Dublier	Aluminum Electrolytic Capacitors - SMD 100uF 6.3V 85C	BeagleBone Black
144	C141	1		LMK105B7223KV-F	Tayo Yuden	CAP CER 0.022UF 10V 10% X7R 0402	BeagleBone Black
145	C142,C143	2		C1005C0G1H300J	TDK	CAP CER 30PF 50V 5% NP0 0402	BeagleBone Black
				GRM1555C1H300JA01D	Murata		BeagleBone Black
146	C156,C157,C160, C161,C162,C163, C164,C165,C166, C167,C168,C169, C170,C171,C172, C173	16		CC0402JRNPO9BN470	Yaego	CAP CER 47PF 50V 5% NPO 0402	BeagleBone Black
				UMK105CG470JV-F	Tayo Yuden		BeagleBone Black
147	D1,D2,D3,D4,D5	5		LTST-C191TBKT	Lite-On	LED BLUE CLEAR THIN 0603 SMD	BeagleBone Black
148	D6,D7	2		IP4283CZ10-TT,118	NXP	DIODE ESD PROT HDMI TSSOP-10	BeagleBone Black
149	D8	1		RB751V40,115	NXP	DIODE SCHOTTKY 40V 120MA SOD-323	BeagleBone Black
150	FB1,FB2,FB3,FB4 ,FB5,FB7	6		LI0805H151R-10	Laird-Signal Integrity	Ferrite Bead 150 Ohm 800mA	BeagleBone Black

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
151	S1,S2,S3	3		KMR231GLFS	C&K	SWITCH TACTILE SPST-NO 0.05A 32V	BeagleBone Black
152	Q1,Q2	2		DMC564040R	Panasonic	TRANS NPN/NPN W/RES 50V SMINI6	BeagleBone Black
				DDC114YU-7-F	Diodes, Inc		BeagleBone Black
153	RT1	1		RXEF010	TE Connectivity	POLYSWITCH RXE SERIES 0.10A HOLD	BeagleBone Black
154	L1,L2,L3	3		LQM2HPN2R2MG0L	Murata	INDUCTOR 2.2UH 20% 1300MA 1008	BeagleBone Black
155	J1	1		68000-406HLF	FCI	CONN HEADER 6POS, VERTICAL, .100 STR TIN	BeagleBone Black
156	P8,P9	2		SSHS-123-D-02-GT-LF	MLE	NN HEADER FMAL 46PS.1" DL GOLD	BeagleBone Black
157	P1	1		PJ-002A	CUI	CONN POWER JACK 2.1MM	BeagleBone Black
				PJ-002AH	CUI		BeagleBone Black
158	P4	1		UX60SC-MB-5ST(80)	Hirose	CONN RCPT USB MINI B R/A SMD	BeagleBone Black
159	P5	1		LPJ0011BBNL	Link PP	RJ-45 10/100 W/Magnetics	BeagleBone Black
160	P3	1		87520-0010BLF	FCI	CONN RCPT USB TYPE A R/A PCB	BeagleBone Black
				UB11123-4H9-4F	Foxconn		BeagleBone Black
161	P10	1		SCHA5B0200	ALPS	Connector SD/MMC	BeagleBone Black
162	P6	1		10118241-001RLF	FCI	HDMI / Displayport / DVI Connectors MICRO HDMI RCPT SMT DIP+ SMT LEG TYPE D	BeagleBone Black
163	R23,R24,R25,R26, R163,R164,R12, R71,R72,R73,R74	11		RMCF0402FT4K75	Stackpole	RES 4.75K OHM 1/16W 1% 0402 SMD	BeagleBone Black
				RK73H1ETTP4751F	KOA		BeagleBone Black
				CRCW04024K75FKED	Vishay		BeagleBone Black
				NRC04F4751TRF	NIC		BeagleBone Black
164	R144	1		RC0402FR-0712K1L	Yageo	RES 12.1K OHM 1/16W 1% 0402 SMD	BeagleBone Black
165	R136,FB8	2		73L3R10J	CTS	RES .10 OHM 1/8W 5% 0805	BeagleBone Black
166	R3,R4,R97,R112, R113,R114,R119, R146,R147	9		RC0402FR-071K5L	Yageo	RES 1.50K OHM 1/16W 1% 0402 SMD	BeagleBone Black
				NRC04F1501TRF	NIC		BeagleBone Black
167	R130,R132	2		ERJ-2GEJ471X	Panasonic	RES 470 OHM 1/10W 5% 0402 SMD	BeagleBone Black
168	R1,R56,R65,R66, R67,R68, R76,R77,R78,R79, R80,R82,R83,R84, R85,R86, R87,R88,R89, R94,R95,R165	22		RMCF0402FT100K	Stackpole	Resistor 100Kohm 1/16W 1% 0402	BeagleBone Black
				CRCW0402100KFKED	Vishay		BeagleBone Black
				RC0402FR-07100KL	Yageo		BeagleBone Black
				NRC04F1003TRF	NIC		BeagleBone Black
169	R75,R125,R126,R127, R128,R129,R131, R133,R134,R138, R139	11		RC0402JR-07100RL	Yageo	RES 100 OHM 1/16W 5% 0402 SMD	BeagleBone Black
				RK73B1ETTP101J	KOA		BeagleBone Black
				MCR01MZPF1000	ROHM		BeagleBone Black
				RMCF0402JT100R	STACKPOLE		BeagleBone Black
				NRC04J101TRF	NIC		BeagleBone Black
170	R143	1		RC0402FR-0710RL	Yageo	RES 10.0 OHM 1/16W 1% 0402 SMD	BeagleBone Black
				RK73H1ETTP10R0F	KOA		BeagleBone Black
				RMCF0402FT10R0	STACKPOLE		BeagleBone Black
				NRC04F10R0TRF	NIC		BeagleBone Black



Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
171	R5,R6,R7,R8,R19,R20,R27,R29,R30,R49,R50,R51,R137,R142,R149,R159,R160,R161,R162,R46,R47,R48.C127	22		RC0402JR-070RL	Yageo	Resistor Zero ohm Jumper 0402	BeagleBone Black
				CRCW04020000Z0ED	VISHAY TECHNOLOGY		BeagleBone Black
				RMCF0402ZT0R00	STACKPOLE		BeagleBone Black
				MCR01MZPJ000	ROHM		BeagleBone Black
				RK73Z1ETTP	KOA		BeagleBone Black
				NRC040TRF	NIC		BeagleBone Black
172	R45	1		RC0402FR-0722RL	Yageo	Resistor 22ohm 1/16W 1% 0402	BeagleBone Black
				RK73B1ETTP220J	KOA		BeagleBone Black
				RMCF0402JT33R0	Stackpole		BeagleBone Black
				CRCW040222R0JNED	Vishay		BeagleBone Black
				NRC04J220TRF	NIC		BeagleBone Black
173	R14,R52,R53,R54,R96,R98,R100,R101,R102,R103,R104,R105,R106,R107,R108,R109,R110,R111,R115,R116,R117,R118,R135,R145,R148,R150,R151,R152,R153,R154,R155,R156,R157,R158	34		MCR01MZPJ103	Rohm	Resistor 10Kohm 1/16W 5% 0402	BeagleBone Black
				RK73B1ETTP103J	KOA		BeagleBone Black
				MCR01MRTJ103	ROHM		BeagleBone Black
				RMCF0402JT10K0	Stackpole		BeagleBone Black
				CRCW040210K0JNED	Vishay		BeagleBone Black
174	R17	1		RMCF0402FT1M00	Stackpole	Resistor 1Mohm 1/16W 1% 0402	BeagleBone Black
				CRCW04021M00FKED	Vishay		BeagleBone Black
				RC0402FR-071ML	Yageo		BeagleBone Black
				NRC04F1004TRF	NIC		BeagleBone Black
175	R22,R120,R121,R122,R123	5		RC0402FR-0749R9L	Yageo	RES 49.9 OHM 1/16W 1% 0402 SMD	BeagleBone Black
				RK73H1ETTP49R9F	KOA		BeagleBone Black
				NRC04F49R9TRF	NIC		BeagleBone Black
176	R11	1		RMCF0402FT280K	Stackpole	RES TF 1/16W 280K OHM 1% 0402	BeagleBone Black
				CRCW0402280KFKED	Vishay		BeagleBone Black
				NRC04F2803TRF	NIC		BeagleBone Black
177	R99	1		RC0402FR-07240RL	Yageo	RES 240 OHM 1/16W 1% 0402 SMD	BeagleBone Black
				RMCF0402FT240R	Stackpole		BeagleBone Black
				MCR01MZPF2400	ROHM		BeagleBone Black
				CRCW0402240RFKED	Vishay		BeagleBone Black
				NRC04F2400TRF	NIC		BeagleBone Black
178	R10	1		RC0402FR-07470KL	Yageo	RES 470K OHM 1/16W 1% 0402 SMD	BeagleBone Black
				RMCF0402FT470K	Stackpole		BeagleBone Black
				CRCW0402470KFKED	Vishay		BeagleBone Black
				NRC04F4703TRF	NIC		BeagleBone Black
179	R166	1		RC0402FR-0727KL	Yageo	RES 27K OHM 1/16W 1% 0402 SMD	BeagleBone Black
				NRC04F2702TRF	NIC		BeagleBone Black
180	R18,R21,R28,R167	4		RC0402JR-0733RL	Yageo	RES 33 OHM 1/16W 5% 0402 SMD	BeagleBone Black
				RK73B1ETTP330J	KOA		BeagleBone Black
				RMCF0402JT33R0	Stackpole		BeagleBone Black

Item #	Designator	Quantity	Value	PartNumber	Manufacturer	Description	PackageReference
				CRCW040233R0JNED	Vishay		BeagleBone Black
				NRC04J330TRF	NIC		BeagleBone Black
181	U2	1		TPS65217C	Texas Instruments	Integrated Power Management Unit	BeagleBone Black
182	U5	1		AM3358BZCZ100	Texas Instruments	AM3358B, SubArctic Cortex A8 Processor 15x15,1GHz, 2.1	BeagleBone Black
183	U9,U10	2		TPD4S012DRY	Texas Instruments	IC 4CH ESD SOLUTION W/CLAMP 6SON	BeagleBone Black
184	U4	1		TL5209D	Texas Instruments	IC LDO VOLT REG 500MA 8-SOIC	BeagleBone Black
185	U8	1		TPS2051BDGN	Texas Instruments	IC 1.5A PWR DIST SWITCH 8-SOIC	BeagleBone Black
186	U6	1		SN74LVC1G74DCT	Texas Instruments	IC SGL POS EDG TRIG D F-F SM8	BeagleBone Black
187	U15	1		SN74LVC2G241DCU	Texas Instruments	IC BUFF/DVR TRI-ST DL 8VSSOP	BeagleBone Black
188	U3	1		SN74LVC1G06DCK	Texas Instruments	IC INVERTER SINGLE 1INPUT SC705	BeagleBone Black
189	U12	1		MT41K256M16HA-125:E	Micron	DDR3 Memory 4Gb,256Mx16	BeagleBone Black
				MT41K256M16TW-107:P	Micron		BeagleBone Black
				D2516EC4BXGGB	Kingston		BeagleBone Black
				D2516EC4BXGGB-U	Kingston		BeagleBone Black
190	U13	1		MTFC4GLDEA 0M WT	Micron	IC MEMORY, 4GB eMMC	BeagleBone Black
				MTFC4GMCDM-1M WT	Micron		BeagleBone Black
				MTFC4GACAJCN-1M WT	Micron		BeagleBone Black
				EMMC04G-S100-A08U	Kingston		BeagleBone Black
				KE4CN2H5A-A58	Kingston		BeagleBone Black
				EMMC04G-M627-X02U	Kingston		BeagleBone Black
191	U7	1		24LC32AT-I/OT	MicroChip	IC EEPROM 32KBIT 400KHZ SOT23-5	BeagleBone Black
192	U14	1		LAN8710A-EZC-TR	SMSC	ETHERNET PHY	BeagleBone Black
193	U11	1		TDA19988BHN/C1,557	NXP	IC HDMI INTERFACE HVQFN64	BeagleBone Black
194	U16	1		SN74LVC1G07DCK	Texas Instruments	IC BUFF/DVR NON-INVERT SC705	BeagleBone Black
195	Y1	1		CM200C-32.768KAZF-UT	Citizen	CRYSTAL 32.768KHZ 12.5PF SMD	BeagleBone Black
196	Y3	1		7A-25.000MAAJ-T	TXC	CRYSTAL 25.000 MHZ 18PF SMD	BeagleBone Black
				445C33D25M00000	CTS		BeagleBone Black
				ILCX03-25.000000M-TBA	ILS		BeagleBone Black
197	Y2	1		7A-24.000MAAJ-T	TXC	CRYSTAL 24.000 MHZ 18PF SMD	BeagleBone Black
				445C33D24M00000	CTS		BeagleBone Black
				ILCX03-24.000000M-TBA	ILS		BeagleBone Black
198	Y4	1		ASDMB-24.576MHZ-LC-T	Abracom	Oscillator, 24.576MHZ, 3.3V	BeagleBone Black
				ECS-2033-24.576-B	ECS		BeagleBone Black
				ISM95-3161BH-24.576	ILSI		BeagleBone Black
				8W24500007	TXC		BeagleBone Black

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