

Item Num	Quantity	Part Reference	Value	Mfr_Name	Mfr_Part_Number	Description
CC3100BOOST Rev 4.0						
1	1	C1	1.0pF	Murata Electronics North America	GJM1555C1H1R0B801D	CAP CER 1PF 50V NPO 0402
2	1	C2	10pF	AVX Corporation	04025U100CAT2A	CAP CER 10PF 50V NPO 0402
3	2	C3 C4	6.2pF	Murata Electronics North America	GRM1555C1H6R2BA01D	CAP CER 6.2PF 50V NPO 0402
4	12	C5 C6 C7 C10 C12 C14 C16 C20 C21 C22 C23 C27	0.1uF	Taiyo Yuden	LMK105BJ104KV-F	CAP CER 0.1UF 10V 10% X5R 0402
5	3	C8 C19 C24	10uF	Murata Electronics North America	GRM188R60J106ME47D	CAP CER 10UF 6.3V 20% X5R 0603
6	1	C9	1.0uF	Murata Electronics North America	GRM155R61A105ME15D	CAP CER 1UF 10V 20% X5R 0402
7	3	C11 C13 C18	4.7uF	Samsung Electro-Mechanics America, Inc	CL05A475MQ5NRNC	CAP CER 4.7UF 6.3V 20% X5R 0402
8	2	C15 C17	22uF	Taiyo Yuden	AMK107BBJ226MAHT	CAP CER 22UF 4V 20% X5R 0603
9	2	C25 C26	10pF	Murata Electronics North America	GRM1555C1H100FA01D	CAP CER 10PF 50V 1% NPO 0402
10	2	C28 C31	10uF	Murata	GRM21BR61A106KE19L	CAP CER 10UF 10V 10% X5R 0805
11	1	C29	15pF	Murata Electronics North America	GRM1555C1H150JA01D	CAP CER 15PF 50V 5% NPO 0402
12	2	C30 C32	100uF	TDK Corporation	C3216X5R0J107M160AB	CAP CER 100UF 6.3V 20% X5R 1206
13	1	D1	LED	OSRAM Opto Semiconductors Inc	LY Q976-P152-36	LED CHIPLED 587NM YLW 0603 SMD
14	1	D2	CD0603-B00340	Bourns Inc	CD0603-B00340	DIODE SCHOTTKY 40V 0.03A 0603
15	2	D3 D4		ON Semiconductor	MBR130T1G	DIODE SCHOTTKY 30V 1A SOD123
16	1	D5	LED	Lumex Opto/Components Inc.	SML-LX0603SRW-TR	LED SUPR RED DIFF 660NM SMD 0603
17	1	D6	LED	OSRAM Opto Semiconductors Inc	LG Q971-KN-1	LED CHIPLED 570NM GREEN 0603 SMD
18	1	E1	2.45GHz Ant	Taiyo Yuden	AH316M245001-T	ANT BLUETOOTH W-LAN ZIGBEE WIMAX
19	1	FL1	2.4GHz Filter	TDK-Epcos	DEA202450BT-1294C1-H	FILTER BANDPASS 2.45GHZ WLAN SMD
20	1	J2	CONN_U_FL	Emerson Network Power Connectivity Johnson	128-0711-201	CONN UMC RCPT STR 50 OHM SMD
21	1	J3	RF SWITCH	Murata	MM8030-2610RJ3	CONN SWG JACK STR 50 OHM SMD
22	2	J5 J6	HEADER_2	TE Connectivity	5-146285-2	CONN HEADR BRKWAY .100 2POS STR
23	1	J7	CONN_MICRO_USB	FCI	10118194-0001LF	CONN USB MICRO B RECPT SMT R/A
24	1	J8	HEADER_3	TE Connectivity	5-146282-3	CONN HDR BRKWAY .100 3POS VERT
25	2	J9 J10	CONN_RCPT_10x2	Samtec	SSQ-110-03-G-D	CONN RCPT .100" 20POS DUAL GOLD
26	1	L1	3.6nH	Murata Electronics North America	LQP15MN3N6B02D	INDUCTOR 3.6NH 0.1NH 0402
27	2	L3 L5	2.2uH	Murata Electronics North America	LQM2HNP2R2MG0L	INDUCTOR 2.2UH 20% 1300MA 1008
28	1	L4	1uH	Murata	LQM2HPN1R0MJ0L	INDUCTOR POWER 1.0UH 1007
29	2	L7 L8	BEAD_FERRITE	Laird-Signal Integrity Products	MI0805K400R-10	FERRITE 1.5A 40 OHM 0805 SMD
30	2	Q1 Q2	BSS138LT3G	On Semi	BSS138LT3G	MOSFET N-CH 50V 200MA SOT-23
31	3	R1 R47 R49	270	Panasonic Electronic Components	ERJ-3GEYJ271V	RES 270 OHM 1/10W 5% 0603 SMD
32	5	R2 R10 R13 R19 R296	10k	Yageo	RC0402JR-0710KL	RES 10K OHM 1/16W 5% 0402 SMD
33	2	R3 R48	100R	Panasonic - ECG	ERJ-2GEJ101X	RES 100 OHM 1/10W 5% 0402 SMD
34	14	R4 R6 R11 R14 R16 R20 R21 R23 R24 R25 R26 R29	0 R	Panasonic Electronic Components	ERJ-2GE0R00X	RES 0.0 OHM 1/10W JUMP 0402 SMD
35	8	R12 R17 R18 R286 R287 R288 R290 R295	100k	Yageo	RC0402JR-07100KL	RES 100K OHM 1/16W 5% 0402 SMD
36	2	R15 R44	1k	Yageo	RC0402JR-071KL	RES 1.0K OHM 1/16W 5% 0402 SMD
37	1	R22	1k	TE Connectivity	1-1622826-8	RES 1.00K OHM 1/16W 5% 0402
38	2	R31 R46	33k	Yageo	RC0402FR-0733KL	RES 33.0K OHM 1/16W 1% 0402 SMD
39	1	R35	0.1	Panasonic Electronic Components	ERJ-3RSJR10V	RES 0.1 OHM 1/10W 5% 0603 SMD
40	1	R43	30.1K	Yageo	RC0402FR-0730K1L	RES 30.1K OHM 1/16W 1% 0402 SMD
41	1	R45	51K	Samsung	RC1005F513CS	RES 51K OHM 1/16W 1% 0402
42	1	R51	DNP	DNP	DNP	DO NOT MOUNT
43	3	SW1 SW2 SW3	SW TACT	Panasonic	EVQ-11A04M	SWITCH TACTILE SPST-NO 0.02A 15V
44	1	TP1	TP_1206	TE Connectivity	1625854-4	1206 PROBE PAD
45	1	U1	8M (1M x 8)	Winbond	W25Q80BLSNIG	IC FLASH 8MBIT 75MHZ 8SO
46	1	U3	CC3100	Texas Instruments	CC3100R	802.11bg Wifi Processor
47	1	U4	TPS79601	TEXAS INSTRUMENTS INC	TPS79601DCQR	IC,VREG,LDO,1.2V-5.5V,2.7V-5.5V,6PIN,SOT-223

48	1	Y1	Crystal	Epson	Q24FA20H00396	CRYSTAL 40MHZ 8PF SMD
49	1	Y3	Crystal	Abracon Corporation	ABS07-32.768KHZ-T	CRYSTAL 32.768KHZ 12.5PF SMD

Item Number	Quantity	Part Reference	Value	Mfr. Name	Mfr. Part Number	Description
EK-TM4C1294XL						
1	1	C1	1000pF	Kemet	C1210C102MGRACU	Capacitor, 1000pF, 2kV, 20%, X7R, 1210
2	26	C3, C4, C5, C10, C11, C12, C13, C16, C17, C18, C19, C21, C22, C23, C24, C25, C26, C27, C28, C29, C30, C40, C41, C42, C43, C46	0.1uF	Taiyo Yuden	EMK105B7104KV-F	Capacitor, 0.1uF 16V, 10% 0402 X7R
3	1	C31	4700pF	AVX	1812GC472KAT1A	Capacitor, 4700pF, 2kV, 10%, X7R, 1812
4	2	C32, C33	3300pF	TDK	C1608X7R1H332K	Capacitor, 3300pF, 50V, 10%, X7R, 0603
5	2	C6, C14	1uF	Johanson Dielectrics Inc	100R07X105KV4T	Capacitor, 1uF, X5R, 10V, Low ESR, 0402
6	3	C7, C15, C20	2.2uF	Murata	GRM188R61C225KE15D	Capacitor, 2.2uF, 16V, 10%, 0603, X5R
7	6	C8, C9, C44, C45, C47, C48	12pF	Murata	GRM1555C1H120JZ01D	Capacitor, 12pF, 50V 5%, 0402, COG
8	5	D0, D1, D2, D3, D4	LED	Everlight	19-217/G7C-AL1M2B/3T	Green LED 0603
9	7	J1, J2, J3, J4, J5, J6, J7	Jumper	3M	969102-0000-DA	Jumper, 0.100, Gold, Black, Open
10	1	JP1	Header 2x3	FCI	67996-206HLF	Header, 2x3, 0.100, T-Hole, Vertical Unshrouded, 0.230 Mate, gold
11	2	JP2, JP3	Header 1x2	3M	961102-6404-AR	Header, 1x2, 0.100, T-Hole, Vertical Unshrouded, 0.220 Mate
				FCI	68001-102HLF	
				Anyone	1x2-head	
12	2	JP4, JP5	Header 2x2	FCI	67997-104HLF	Header, 2x2, 0.100, T-Hole, Vertical Unshrouded, 0.230 Mate
				4UCON	00998	
13	8	R1, R2, R3, R4, R5, R29, R35, R44	10K	Yageo	RC0402FR-0710KL	Resistor, 10k ohm, 1/10W, 5%, 0402 Thick Film
14	3	R17, R26, R36	100K	Rohm	MCR01MRTJ104	100k 5% 0402 resistor smd
15	2	R18, R51	100 ohm	Rohm	MCR1MRTJ101	Resistor 0402 100 ohm 5%
16	4	R23, R21, R22, R24	49.9 ohm	Rohm	MCR01MRTF49R9	Resistor 49.9 ohm 0402. 1 %
17	1	R25	4.87K	Rohm	MCR01MRTF4871	Resistor 4.87k 1% 0402 smd
18	1	R28	5.6K	Panasonic	ERJ-2GEJ562X	Resistor, 5.6k ohm, 1/10W, 5%, 0402
19	4	R32, R43, R45, R46	75 ohm	Rohm	MCR01MRTJ750	resistor 75 ohm 0402 5%
20	2	R34, R52	1 M	Panasonic	ERJ-3GEYJ105V	Resistor, 1M OHM 1/10W 5% 0603 SMD
21	1	R38	51 ohm	Panasonic	ERJ-2GEJ510X	Resistor, 51 ohm, 1/10W, 5%, 0402
22	1	R42	1 M	Rohm	MCR01MRTF1004	Resistor, 1M Ohm 1/10W, 5%, 0402
23	1	R47	1 M	Panasonic	ERJ-8GEYJ105V	RES 1M OHM 5% 1206 TF
24	2	R49, R50	2.0K	Panasonic	ERJ-3GEYJ202V	Resistor, 2.0k ohm, 1/10W, 5%, 0402
25	12	R6, R7, R8, R10, R11, R15, R16, R19, R20, R39, R40, R41	0 ohm	Panasonic	ERJ-2GE0R00X	Resistor, 0 ohm, 1/10W, 5%, 0402
26	5	R9, R27, R30, R31, R33	330 ohm	Yageo	RC0402FR-07330RL	Resistor, 330 ohm, 1/10W, 5%, 0402
27	4	RESET, USR_SW1, USR_SW2, WAKE	Switch	Omron	B3S-1000	Switch, Tact 6mm SMT, 160gf
28	1	U1	TM4C1294	Texas Instruments	TM4C1294NCPDT	Tiva, MCU TM4C1294NCPDT 128 QFP with Ethernet MAC + PHY
29	1	U10	Ethernet transformer	Pulse Electronics	HX1198FNL	Transformer, ethernet, 1 to 1. SOIC 16
30	1	U13	Diod	Semtech	SLVU2.8-4.TBT	Diode, 8 chan, +/-15KV, ESD Protection Array, SO-8
31	1	U14	Ethernet connector	TE Connectivity	1-406541-5	Connector, RJ45 NO MAG, shielded THRU HOLE
32	2	U2, U3	TPD4S012	Texas Instruments	TPD4S012DRYR	IC 4CH ESD SOLUTION W/CLAMP 6SON
33	1	U20	TM4C123	Texas Instruments	TM4C123GH6PMI	Stellaris TIVA MCU TM4C123GH6PMI
34	1	U22	USB connector	FCI	10118194-0001LF	USB Micro B receptical right angle with guides
35	1	U4	TPS2052	Texas Instruments	TPS2052BDRBR	Fault protected power switch, dual channel, 8-SON
36	1	U5	TPS73733	Texas Instruments	TPS73733DRV	3.3V LDO TI TPS73733DRV fixed out 5V in
37	1	U6	Header 2x5	Samtec	SHF-105-01-S-D-SM	Header 2x5, 0.050, SM, Vertical Shrouded
				Don Connex Electronics	C44-10BSA1-G	
38	1	U7	USB connector	Hirose	ZX62D-AB-5P8	USB Micro AB receptacle. Right angle with through guides
39	4	X6, X7, X8, X9	Header 2x10	Samtec	SSW-110-23-S-D	Header, 2x10, T-Hole Vertical unshrouded stacking
40	1	Y1	Crystal	NDK	nx3225ga-25.000m-std-crg-2	Crystal 25 Mhz 3.2 x 2.5 mm
41	1	Y2	Crystal	NDK	NX3225GA-16.000M-STD-CRG-2	crystal 16 mhz 3.2x2.5 mm 4 pin

42	1	Y3	Crystal	Citizen Finetech Miyota	CMR200T-32.768KDZY-UT	Crystal, 32.768KHz Radial Can
43	1	C2	0.1uF	Taiyo Yuden	EMK105B7104KV-F	Capacitor, 0.1uF 16V, 10% 0402 X7R
44	3	H1, H4, H6	Screw	McMaster	90077A112	Screw, #4 x 0.625" Pan Head, Sheet Metal, Phillips/Slotted (for fan)
45	3	R12, R13, R14	5.6K	Panasonic	ERJ-2GEJ562X	Resistor, 5.6k ohm, 1/10W, 5%, 0402
46	1	R48	52.3K	Rohm	TRR01MZPF5232	Resistor 0402 1% 52.3k
47	17	TP1, TP2, TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17	test pin	Keystone	5000	Terminal, Test Point Miniature Loop, Red, T-Hole
48	1	X1	Header 2x7	FCI	67997-114HLF	Header, 2x7, 0.100, T-Hole, Vertical, Unshrouded, 0.230 Mate
49	1	X11A	Connector	Samtec	TSW-149-09-F-S-RE	Valvano style bread board connect. Right Angle extended, 1 x 49 0.100 pitch.
50	1	X11B	Connector	Samtec	TSW-149-08-F-S-RA	valvano style breadboard header.

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