

TIDM-TM4C129XGATEWAY  
EK-TM4C123GXL

Item Number	Part Reference	Quantity	Description	Mfr_Name	Mfr_Part_Number
<b>EK-TM4C123GXL</b>					
1	C1 C2 C7 C12, C14	5	Capacitor, 0402, X5R, 10V, Low ESR	Johanson Dielectrics Inc	100R07X105KV4T
2	C25 C26 C31 C32	4	Capacitor, 10pF, 50V, 5%, NPO/COG, 0402	Murata	GRM1555C1H100JZ01D
3	C28 C29	2	Capacitor, 24pF, 50V, 5%, NPO/COG, 0402	TDK	C1005C0G1H240J
4	C3 C5 C8 C15 C18 C19 C21	7	Capacitor, 0.01uF 25V, 10% 0402 X7R	Taiyo Yuden	TMK105B7103KV-F
5	C4 C6 C10 C11 C17 C20 C23 C24	8	Capacitor, 0.1uF 16V, 10% 0402 X7R	Taiyo Yuden	EMK105B7104KV-F
6	C9 C22	2	Capacitor, 2.2uF, 16V, 10%, 0603, X5R	Murata	GRM188R61C225KE15D
7	D1	1	LED, Tri-Color RGB, 0404 SMD Common Anode	Everlight	18-038/RSGHBHC1-S02/2T
8	D4	1	LED, Green 565nm, Clear 0805 SMD	Lite-On	LTST-C171GKT
				Lite-On	LTST-C171GKT
9	H24	1	Header, 1x2, 0.100, T-Hole, Vertical Unshrouded, 0.220 Mate	3M	961102-6404-AR
				FCI	68001-102HLF
				Anyone	1x2-head
10	H25	1	Jumper, 0.100, Gold, Black, Closed	Sullins	SPC025YAN
11	J1 J3	2	Header, 2x10, T-Hole Vertical unshrouded stacking	Samtec	SSW-110-23-S-D
12	J11	1		Hirose	ZX62-B-5PA
13	J2 J4	2	Header, 2x10, 0.100, SMT, Horizontal Unshrouded, 0.230 Mate	Samtec	TSM-110-01-S-DH-A-P-TR
				4UCON	10995
				Major League Electronics	TSHSM-110-D-02-T-H-AP-TR-P-LF
14	J9	1	Connector, USB micro AB Receptacle SMD	Hirose	ZX62-AB-5PA(11)
				Hirose	ZX62-AB-5PA
15	Q1 Q2 Q3	3	NPN SC70 pre-biased	Diodes Inc	DTC114EET1G
16	R1 R2 R9 R10 R11 R12 R13 R14 R16, R20 R26	11	Resistor, 0 OHM 1/10W 0603 SMD	Panasonic	ERJ-3GEY0R00V
17	R18 R19 R21 R22 R23 R28	6	Resistor, 10k ohm, 1/10W, 5%, 0402 Thick Film	Yageo	RC0402FR-0710KL
18	R3 R4 R5 R8 R27	5	Resistor, 330 ohm, 1/10W, 5%, 0402	Yageo	RC0402FR-07330RL
19	R31	1	Resistor, 1M Ohm 1/10W, 5%, 0402	Rohm	MCR01MRTF1004
20	RESET SW1 SW2	3	Switch, Tact 6mm SMT, 160gf	Omron	B3S-1000
21	SW3	1	Switch, DPDT, SMT 300 mA*2 @ 6V	C&K Components	JS202011SCQN
22	U1 U2	2	Stellaris TIVA MCU TM4C123GH6PMI	Texas Instruments	TM4C123GH6PMI
				Texas Instruments	LM4F120H5QRFIG
23	U8	1	Regulator, 3.3V, 400mA, LDO	Texas Instruments	TPS73633DRBT
24	Y1	1	Crystal, 32.768KHz Radial Can	Abracon	AB26TRB-32.768KHZ-T
25	Y2 Y5	2	Crystal, 16.00MHz 5.0x3.2mm SMT	NDK	NX5032GA-16.000000MHZ
				Abracon	ABM3-16.000MHZ-B2-T

**PCB Do Not Populate List (Shown for information only)**

26	C13 C34	2	Capacitor, 0.1uF 16V, 10% 0402 X7R	Taiyo Yuden	EMK105B7104KV-F
27	D2	1	DIODE, Dual Schottky, SC70, BAS70 Common Cathode	Diodes Inc	BAS70W-05-7-F
28	R17	1	Resistor, 10k ohm, 1/10W, 5%, 0402 Thick Film	Yageo	RC0402FR-0710KL
29	R24	1	Resistor, 330 ohm, 1/10W, 5%, 0402	Yageo	RC0402FR-07330RL
30	R25 R29 R30	3	Resistor, 0 OHM 1/10W 0603 SMD	Panasonic	ERJ-3GEY0R00V
31	U4	1	IC, Single Voltage Supervisor, 5V, DBV	Texas Instruments	TLV803MDBZR

**Final Assembly Bill Of Materials**

Del		1	OMIT BOM for TIVA EK-TM4C123GXL Launchpad REV C		
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TIDM-TM4C129XGATEWAY  
EK-TM4C129EXL

Item Number	Quantity	Part Reference	Value	Mfr_Name	Mfr_Part_Number	Description
<b>EK-TM4C129EXL</b>						
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	C1608X7RH332K	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	GRM1555C1H120J201D	Capacitor, 12pF, 50V, 5%, 0402, COG
8	5	D0, D1, D2, D3, D4		Everlight	19-217/G7C-AL1M2B/3T	Green LED 0603
9	7	J1, J2, J3, J4, J5, J6, J7		3M	969102-0000-DA	Jumper, 0.100, Gold, Black, Open
10	1	JP1		FCI	67996-206HLF	Header, 2x3, 0.100, T-Hole, Vertical Unshrouded, 0.230 Mate, gold
11	2	JP2, JP3		FCI	68001-102HLF	Header, 1x2, 0.100, T-Hole, Vertical Unshrouded, 0.220 Mate
12	2	JP4, JP5		FCI	67997-104HLF	Header, 2x2, 0.100, T-Hole, Vertical Unshrouded, 0.230 Mate
13	8	R1, R2, R3, R4, R5, R29, R35, R44	10 KOhm	Yageo	RC0402FR-0710KL	Resistor, 10k ohm, 1/10W, 5%, 0402 Thick Film
14	3	R17, R26, R36	100 KOhm	Rohm	MCR01MRTJ104	100k 5% 0402 resistor smd
15	2	R18, R51	100 Ohm	Rohm	MCR01MRTJ101	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	4.87 Kohm	Rohm	MCR01MRTF4871	Resistor 4.87k 1% 0402 smd
18	1	R28	5.6 Kohm	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 MOhm	Panasonic	ERJ-3GEYJ105V	Resistor, 1M OH, 1/10W, 5% 0603 SMD
21	1	R38	51 Ohm	Panasonic	ERJ-2GEJ510X	Resistor, 51 ohm, 1/10W, 5%, 0402
22	1	R42	1 MOhm	Rohm	MCR01MRTF1004	Resistor, 1M ohm, 1/10W, 5%, 0402
23	1	R47	1 MOhm	Panasonic	ERJ-8GEYJ105V	RES 1M OHM 5% 1206 TF
24	2	R49, R50	2 Kohm	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		Omron	B3S-1000	Switch, Tact 6mm SMT, 160gf
28	1	U1		Texas Instruments	TM4C129ENCPDT	Tiva, MCU TM4C129ENCPDT 128 QFP with Crypto Module and Ethernet MAC ± PHY
29	1	U10		Pulse Electronics	HX1198FNL	Transformer, ethernet, 1 to 1. SOIC 16
30	1	U13		Semtech	SLVU2.8-4.TBT	Diode, 8 chan, +/-15KV, ESD Protection Array, SO-8
31	1	U14		TE Connectivity	1-406541-5	Connector, RJ45 NO MAG, shielded THRU HOLE
32	2	U2, U3		Texas Instruments	TPD4S012DRYR	IC 4CH ESD SOLUTION, W/CLAMP 6SON
33	1	U20		Texas Instruments	TM4C123GH6PMI	TIVA MCU TM4C123GH6PMI
34	1	U22		FCI	10118194-0001LF	USB Micro B receptacle right angle with guides
35	1	U4		Texas Instruments	TPS2052BDRBR	Fault protected power switch, dual channel, 8-SON
36	1	U5		Texas Instruments	TPS73733DRV	3.3V LDO TI TPS73733DRV fixed out 5V in
37	1	U6		Samtec	SHF-105-01-S-D-SM	Header 2x5, 0.050, SM, Vertical Shrouded
38	1	U7		Hirose	ZX62D-AB-5P8	USB Micro AB receptacle. Right angle with through guides
39	4	X6, X7, X8, X9		Samtec	SSW-110-23-S-D	Header, 2x10, T-Hole Vertical unshrouded stacking
40	1	Y1	25 MHz	NDK	NX3225GA-25.000M-STD-CRG-2	Crystal 25 MHz 3.2 x 2.5 mm
41	1	Y2	16 MHz	NDK	NX3225GA-16.000M-STD-CRG-2	Crystal 16 MHz 3.2 x 2.5 mm 4 pin
42	1	Y3	32768 Hz	Citizen Finetech Miyota	CMR200T-32.768KDZY-UT	Crystal, 32.768 KHz Radial Can
PCB Do Not Populate List (Shown for Information only)						
43	1	C2	0.1uF	Taiyo Yuden	EMK105B7104KV-F	Capacitor, 0.1uF 16V, 10%, 0402 X7R
44	3	H1, H4, H6		McMaster	90077A112	Screw, #4 x 0.625" Pan Head, Sheet Metal, Phillips/Slotted (for fan)
45	3	R12, R12, R14	5.6 KOhm	Panasonic	ERJ-2GEJ562X	Resistor, 5.6k ohm, 1/10W, 5%, 0402
46	1	R48	52.3 KOhm	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		Keystone	5000	Terminal, Test Point Miniature Loop, Red, T-Hole
48	1	X1		FCI	67997-114HLF	Header, 2x7, 0.100, T-Hole, Vertical, Unshrouded, 0.230 Mate
49	1	X11A		Samtec	TSW-149-09-F-S-RE	Valvano style bread board connect. Right Angle extended, 1 x 49 0.100 pitch.
50	1	X11B		Samtec	TSW-149-08-F-S-RA	valvano style breadboard header.

TIDM-TM4C129XGATEWAY  
CC3100BOOST Rev 4.0

Item Num	Quantity	Part Reference	Value	Mfr_Name	Mfr_Part_Number	Description
<b>CC3100BOOST Rev 4.0</b>						
1	1	C1	1.0pF	Murata Electronics North America	GJM1555C1H1R0BB01D	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	GRM188R60J10GME47D	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-P1S2-36	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	LQM2HPN2R2MG0L	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 R36 R41	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

Part Reference	Quantity	Value	PCB Package	Description	MPN	Manufacturer	Part Number	RoHS Status
<b>CC2650EM-7ID Rev 1.2.6</b>								
C2	1	DNM		CAPACITOR, DO NOT MOUNT, 0603, SMD			02-01324	
C3 C4 C5 C9 C16 C20	6	100nF	0402	CAPACITOR, CERAMIC X7R, 100nF, 6.3V, -10%/+10%, -55DEGC/+125DEGC, 0402, SMD	GRM155R70J104KA01D	MURATA	02-02323	ROHS_COMPLIANT
C6 C8	2	10uF	0603	CAPACITOR, CERAMIC X5R, 10uF, 6.3V, -20%/+20%, -55DEGC/+85DEGC, 0603, SMD	GRM188R60J106ME47D	MURATA	02-02419	ROHS_COMPLIANT
C7	1	100nF	0603	CAPACITOR, CERAMIC X7R, 100nF, 25V, -10%/+10%, -55DEGC/+125DEGC, 0603, SMD	GRM188R71E104KA01D	MURATA	02-01992	ROHS_COMPLIANT
C10 C12 C15 C22 C23 C24	6	DNM	0402	CAPACITOR, CERAMIC, N/A VALUE, -55DEGC/+125DEGC, 0402, SMD	CAPACITOR_0402_DNM_N/A_M	Manufacturer selection	02-04164	PART NOT KNOWN
C11 C13 C21	3	1pF	0402	CAPACITOR, CERAMIC C0G/NP0, 1pF, 50V, -0.25pF/ +0.25pF, -55DEGC/+125DEGC, 0402, SMD	GRM1555C1H1R0CA01D	MURATA	02-04672	ROHS_COMPLIANT
C14	1	12pF	0402	CAPACITOR, CERAMIC C0G/NP0, 12pF, 50V, -5%/+5%, -55DEGC/+125DEGC, 0402, SMD	GRM1555C1H120JA01D	MURATA	02-04168	ROHS_COMPLIANT
C17 C18	2	12pF	0402	CAPACITOR, CERAMIC C0G/NP0, 12pF, 50V, -5%/+5%, -55DEGC/+125DEGC, 0402, SMD	CAPACITOR_0402_12pF_C0G/NP0_M +/-5%_50V	MANUFACTURER SELECTION	02-03030	ROHS_COMPLIANT
C19	1	1uF	0402	CAPACITOR, CERAMIC X5R, 1uF, 10V, -10%/+10%, -55DEGC/+85DEGC, 0402, SMD	GRM155R61A105KE15D	MURATA	02-02381	ROHS_COMPLIANT
C31	1	6.8pF	0402	CAPACITOR, CERAMIC C0G/NP0, 6.8pF, 50V, -0.25pF, +0.25pF, -55DEGC/+125DEGC, 0402, SMD	GRM1555C1H6R8CA01D	MURATA	02-04169	ROHS_COMPLIANT
FL1	1	BLM18HE152SN1	0603	FILTER, EMI, 1500@100MHz, -55DEGC/+125DEGC, 0603, SMD	BLM18HE152SN1D	MURATA	04-00470	ROHS_COMPLIANT
J1	1	DNM		CONNECTOR, COAX RF, STRAIGHT, FEMALE, 1 PIN, SMD	SMA-10V21-TGG	HUS-TSAN	06-02188	N/A
L1	1	10uH	0805	INDUCTOR, CHIP, 10uH, -20%/+20%, 0.11A, -40DEGC/+85DEGC, 0805, SMD	CKS2125100M-T	TAIYO YUDEN	03-06514	ROHS_COMPLIANT
L11 L21	2	2.4nH	0402	INDUCTOR, CHIP, 2.4nH, -0.3nH/+0.3nH, 0.3A, -55DEGC/+125DEGC, 0402, SMD	LQG15HN2N4S02D	MURATA	03-06554	ROHS_COMPLIANT
L12 L13	2	2nH	0402	INDUCTOR, CHIP, 2nH, -0.3nH/ +0.3nH, 0.3A, -55DEGC/+125DEGC, 0402, SMD	LQG15HS2N0S02D	MURATA	03-06525	ROHS_COMPLIANT
P1 P2	2	SFM-110-02-S-D-A-K-TR		CONNECTOR, HEADER, FEMALE, STRAIGHT, 2 ROWS, 20 PINS, PITCH 1.27mm, SMD	SFM-110-02-SM-D-A-K-TR	SAMTEC	06-02251	ROHS_COMPLIANT
R1	1	100k	0402	RESISTOR, THICK FILM, 100k, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	RESISTOR_0402_100k_+/-1%_50V_0.063W_M +/-100PPM	MANUFACTURER SELECTION	01-12837	ROHS_COMPLIANT
R12	1	0	0402	RESISTOR, JUMPER, -55DEGC/+155DEGC, 0402, SMD	RK73Z1ETTP	KOA SPEER	01-01784	ROHS_COMPLIANT
U1	1	CC2650F128RGZ	QFN48	IC, DIGITAL, 2.4GHZ SIMPLELINK WIRELESS MCU, PITCH 0.5MM, QFN48, SMD	CC2650F128RGZT	TEXAS INSTRUMENTS	18-28499	ROHS_COMPLIANT
Y1	1	32.768kHz		CRYSTAL, RESONATOR, 32.768kHz, -20PPM/+20PPM, -40DEGC/+85DEGC, SMD	FC-135 32.7680KA-AGO	EPSON	12-00546	ROHS_COMPLIANT
Y2	1	24MHz		CRYSTAL, CRYSTAL OSCILLATOR, 24MHz, -15PPM/DEGC/+15PPM/DEGC, -40DEGC/+85DEGC, SMD	TSX-3225 24.0000MF15X-AC3	EPSON	12-00757	ROHS_COMPLIANT

Part number	Quantity	Reference	Value	Description	Manufacturer	Manufacturer part number	PCB Package	Max operating temp	Note status	RoHS status
<b>CC13xxEM-7XD-7793_4L</b>										
13-00397	1	A1	Antenna PCB helix 868/915MHz	ANTENNA, NON COMPONENT, PCB HELIX 868/915MHz, NOT APPLY	TEXAS INSTRUMENTS	ANTENNA PCB HELIX 868/915MHz		N/A	PREFERRED	ROHS_COMPLIANT
02-01324	1	C1	DNM	CAPACITOR, DO NOT MOUNT, 0603, SMD						
02-06008	2	C11,C22	3.6pF	CAPACITOR, CERAMIC COG/NPO, 3.6pF, 50V, -0.25pF/+0.25pF, -55DEGC/+125DEGC, 0402, SMD	MURATA	GRM1555C1H3R6CA01D	402	+125DEGC	PREFERRED	ROHS_COMPLIANT
02-04679	1	C12	2.7pF	CAPACITOR, CERAMIC COG/NPO, 2.7pF, 50V, -0.25pF/+0.25pF, -55DEGC/+125DEGC, 0402, SMD	MURATA	GRM1555C1H2R7CA01D	402	+125DEGC	PREFERRED	ROHS_COMPLIANT
02-04608	1	C13	6.2pF	CAPACITOR, CERAMIC COG/NPO, 6.2pF, 50V, -0.25pF/+0.25pF, -55DEGC/+125DEGC, 0402, SMD	MURATA	GRM1555C1H6R2CA01D	402	+125DEGC	PREFERRED	ROHS_COMPLIANT
02-04606	1	C14	3pF	CAPACITOR, CERAMIC COG/NPO, 3pF, 50V, -0.25pF/+0.25pF, -55DEGC/+125DEGC, 0402, SMD	MURATA	GRM1555C1H3R0CA01D	402	+125DEGC	PREFERRED	ROHS_COMPLIANT
02-04365	2	C15,C21	100pF	CAPACITOR, CERAMIC COG/NPO, 100pF, 50V, -5%/+5%, -55DEGC/+125DEGC, 0402, SMD	MURATA	GRM1555C1H101JA01D	402	+125DEGC	PREFERRED	ROHS_COMPLIANT
02-04168	2	C41,C51	12pF	CAPACITOR, CERAMIC COG/NPO, 12pF, 50V, -5%/+5%, -55DEGC/+125DEGC, 0402, SMD	MURATA	GRM1555C1H120JA01D	402	+125DEGC	PREFERRED	ROHS_COMPLIANT
02-02323	6	C131,C221,C351,C441,C451,C481	100nF	CAPACITOR, CERAMIC X7R, 100nF, 6.3V, -10%/+10%, -55DEGC/+125DEGC, 0402, SMD	MURATA	GRM155R70J104KA01D	402	+125DEGC	PREFERRED	ROHS_COMPLIANT
02-02381	1	C231	1uF	CAPACITOR, CERAMIC X5R, 1uF, 10V, -10%/+10%, -55DEGC/+85DEGC, 0402, SMD	MURATA	GRM155R61A105KE15D	402	+85DEGC	PREFERRED	ROHS_COMPLIANT
02-07053	2	C331,C341	22uF	CAPACITOR, CERAMIC X5R, 22uF, 6.3V, -20%/+20%, -55DEGC/+85DEGC, 0603, SMD	MURATA	GRM188R60J226MEA0D	603	+85DEGC	PREFERRED	ROHS_COMPLIANT
02-01992	1	C342	100nF	CAPACITOR, CERAMIC X7R, 100nF, 25V, -10%/+10%, -55DEGC/+125DEGC, 0603, SMD	MURATA	GRM188R71E104KA01D	603	+125DEGC	PREFERRED	ROHS_COMPLIANT
02-01235	1	C343	NC	CAPACITOR, CERAMIC, N/A VALUE, -55DEGC/+125DEGC, 0603, SMD	MANUFACTURER SELECTION	CAPACITOR_0603_N/A_M	603	+125DEGC	PREFERRED	ROHS_COMPLIANT
02-04164	3	C461,C471,C482	DNM	CAPACITOR, CERAMIC, N/A VALUE, -55DEGC/+125DEGC, 0402, SMD	Manufacturer selection	CAPACITOR_0402_DNM_N/A_M	402	+125DEGC	PREFERRED	PART NOT KNOWN
19-00111	6	FIDU1,FIDU2,FIDU3,FIDU4,FIDU5,FIDU6	FIDU_1MM	FIDUCIAL MARK, ROUND 1MM						
04-00470	1	FL1	BLM18HE152SN1	FILTER, EMI, 1500@100MHz, -55DEGC/+125DEGC, 0603, SMD	MURATA	BLM18HE152SN1D	603	+125DEGC	PREFERRED	ROHS_COMPLIANT
06-02188	1	J1	SMA-10V21-TGG	CONNECTOR, COAX RF, STRAIGHT, FEMALE, 1 PIN, SMD	HUS-TSAN	SMA-10V21-TGG			PREFERRED	N/A
03-06536	1	L11	27nH	INDUCTOR, STANDARD, CHIP, 27nH, -5%/+5%, 0.3A, -55DEGC/+125DEGC, 0402, SMD	MURATA	LQG15HS27NJO2D	402	+125DEGC	PREFERRED	ROHS_COMPLIANT
03-07022	2	L12,L21	7.5nH	INDUCTOR, CHIP, 7.5nH, -5%/+5%, IR:0.55A, -55DEGC/+125DEGC, 0402, SMD	MURATA	LQG15HS7N5JO2D	402	+125DEGC	NOT_PREFERRED	ROHS_COMPLIANT
03-06633	2	L13,L14	6.8nH	INDUCTOR, CHIP, 6.8nH, -5%/+5%, 0.3A, -55DEGC/+125DEGC, 0402, SMD	MURATA	LQG15HS6N8JO2D	402	+125DEGC	PREFERRED	ROHS_COMPLIANT
03-01022	1	L15	TBD	INDUCTOR, TO BE DECIDED, 0402, SMD	MANUFACTURER SELECTION	IND_TBD_0402			PREFERRED	ROHS_COMPLIANT
03-07266	1	L331	6.8uH	INDUCTOR, CHIP, FERRITE CORE, 6.8uH, -20%/+20%, IR:1.1A, -55DEGC/+125DEGC, 0805, SMD	TDK	MLZ2012N6R8LT000	805	+125DEGC	PREFERRED	ROHS_COMPLIANT
06-02251	2	P1,P2	SFM-110-02-S-D-A-K-TR	CONNECTOR, HEADER, FEMALE, STRAIGHT, 2 ROWS, 20 PINS, PITCH 1.27mm, SMD	SAMTEC	SFM-110-02-SM-D-A-K-TR		+125DEGC	PREFERRED	ROHS_COMPLIANT
01-11587	2	R11,R13	0	RESISTOR, THICK FILM, 0, -5%/+5%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	MANUFACTURER SELECTION	RESISTOR_0402_0_+/-5%_50V_0.063W_M_+/-200PPM	402	+155DEGC	PREFERRED	ROHS_COMPLIANT
01-02472	1	R12	DNM	RESISTOR, DO NOT MOUNT, 0402, SMD	DO NOT MOUNT	DNM	402	N/A	PREFERRED	PART NOT KNOWN
01-12837	1	R351	100k	RESISTOR, THICK FILM, 100k, -1%/+1%, 0.063W, 50V, -55DEGC/+155DEGC, 0402, SMD	MANUFACTURER SELECTION	RESISTOR_0402_100k_+/-1%_50V_0.063W_M_+/-100PPM	402	+155DEGC	PREFERRED	ROHS_COMPLIANT
18-28964	1	U1	CC13xx 7x7	IC, DIGITAL, CUSTOM, CC13xx 7x7, QFN48, SMD	TEXAS INSTRUMENTS	CC13xx 7x7	QFN48	N/A	PREFERRED	PART NOT KNOWN
12-00546	1	Y1	32.768kHz	CRYSTAL, RESONATOR, 32.768kHz, -20PPM/+20PPM, -40DEGC/+85DEGC, SMD	EPSON	FC-135 32.7680KA-AG0		+85DEGC	PREFERRED	ROHS_COMPLIANT
12-00757	1	Y2	24MHz	CRYSTAL, CRYSTAL OSCILLATOR, 24MHz, -15PPM/DEGC/+15PPM/DEGC, -40DEGC/+85DEGC, SMD	EPSON	TSX-3225 24.0000MF15X-AC3		+85DEGC	PREFERRED	ROHS_COMPLIANT



Bill of Materials

TI Designs

TIDM-TM4C129XGATEWAY

DRV8833 EVM

Item	Ref	Qty	Description	Mfg	Part Number
<b>DRV8833 EVM</b>					
1	C1	1	Capacitor	TDK Corporation	C2012X5R1C106M
2	C2, C4	2	Capacitor	TDK Corporation	C1608X5R0J225K
3	C3, C5	2	Capacitor	Murata Electronics North Americ, Murata Electronics North America	GRM188R71E103KA01D
4	C6	1	Capacitor	TDK Corporation	C1608Y5V1C105Z
5	C9	1	Capacitor	TDK Corporation	C1608X7R1E104K
6	C11	1	Polarized Capacitor (Radial)	Nichicon	RNE1C101MDS1PX
7	D1	1	LED RED CLEAR 1206 SMD	Stanley Electric & Co	HBR1105W-TR
8	J1	1	Header, 8-Pin	Phoenix Contact	1945151
9	J2	1	Header, 4-Pin	Phoenix Contact	1945119
10	JP1, JP2, JP3, JP4	4	Three Pin Jumper	Phoenix Contact	1945106
11	JP5, JP6	2	Two Pin Jumper	Phoenix Contact	1945096
12	R5, R6	2	Resistor	Vishay/Dale (VA)	WSL2512R1500FEA
13	R9	1	Resistor	Stackpole Electronics Inc	RNCP0805FTD499R
14	REG1	1	VoltageRegulator	Texas Instruments	LP2985-50DBVR
15	S1, S2, S3, S4	4	SPDT ON OFF ON	NKK Switches	B13AP
16	TP1, TP2, TP3, TP4, TP6, TP7, TP8, TP10, TP11, TP13, TP14, TP15, TP16, TP17	14	Glass Beaded Test Point	Kobiconn	151-101-RC
17	TP5, TP9	2	Glass Beaded Test Point	Kobiconn	151-103-RC
18	TP12	1	Glass Beaded Test Point	Kobiconn	151-107-RC
19	U1	1	Dual H Bridge	Texas Instruments	DRV8833PWP



## Bill of Materials

### TI Designs

#### TIDM-TM4C129XGATEWAY

#### WiFi Node LP Swizzle Adaptor Board

Item	Quantity	Reference	Part	Foot	Part	Supplier	Note
<b>WiFi Node LP Swizzle Adaptor Board</b>							
1	4	(P1-1, P3-1), (P4-1,P2-1), (J1-1,J3-1), (J4-1	RECP 20	BLKCON.100/VH/TM2SQ/W.200/2	ESQ-110-14-G-D	Samtec	Use one 10x2 instead of two 10x1
2	1	J1-2	RCPT 8	BLKCON.100/VH/TM1SQ/W.100/8	ESQ-108-14-G-S	Samtec	
3	2	R1,R2	2K	0603		Digikey	

Note : Mount the five connectors from the bootom side. Pins extend throuth the top side with silk screem.

Bill of Materials  
TI Designs

TIDM-TM4C129XGATEWAY  
DLP-7970ABP

Item	Ref	Qty	Description	Mfg	Part Number
<b>DLP-7970ABP</b>					
1	DLP-7970ABP	1	TRF7970A NFC transceiver BoosterPack	DLP Design	DLP-7970ABP



Bill of Materials  
TI Designs

TIDM-TM4C129XGATEWAY  
DLP-RF430CL331BP

Item	Ref	Qty	Description	Mfg	Part Number
<b>DLP-RF430CL331BP</b>					
1	DLP-RF430CL331BP	1	RF430CL330H NFC tag BoosterPack	DLP Design	DLP-RF430CL331BP

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