

Bill of Materials

TI DESIGNS

TIDC-CC2540-BLE-USB

Item	Qty	Reference	Value	Part Description	Manufacturer	Manufacturer Part Number
1	1	U1		2.4 GHz SoC	TI	CC2540
2	1	C3	DNM	Capacitor, general, 0402; Do not mount		
3	1	C5	0.5 pF	Capacitor, 0.5p, 0402, NP0, +/-0.1pF, 50V	Murata	GRM1555C1HR50BZ01D
4	5	C101;C211;C241;C271;C311	100 nF	Capacitor, 100n, 0402, X5R, 10%, 10V	Murata	GRM155R71A104KA01D
5	1	C41	10 pF	Capacitor, 10p, 0402, NP0, 5%, 50V	Murata	GRM1555C1H100JZ01D
6	2	C221;C231	12 pF	Capacitor, 12p, 0402, NP0, 5%, 50V	Murata	GRM1555C1H120JA01D
7	1	C201	1 nF	Capacitor, 1n, 0402, NP0, 5%, 50V	Murata	GRM1555C1H102JA01D
8	2	C391;C401	1 uF	Capacitor, 1u, 0402, X5R, 10%, 6.3V	Murata	GRM155R60J105KE19D
9	1	C1	1 uF	Capacitor, 1u, 0603, X5R, 15%, 6.3V	Murata	GRM188R60J105KA01D
10	1	C272	22 pF	Capacitor, 220p, 0402, NP0, 5%, 50V	Murata	GRM1555C1H221JA01D
11	1	C4	2.2 uF	Capacitor, 2u2, 0402, X5R, +/-20%, 6.3V	Murata	GRM155R60J225ME
12	2	C21;C31	47 pF	Capacitor, 47p, 0402, NP0, 5%, 50V	Murata	GRM1555C1H470JZ01D
13	1	C2	4.7 uF	Capacitor, 4u7, 0603, X5R, 10%, 6.3V	Murata	GRM188R60J475KE19D
14	1	B1		Balun, JTI matched ZIGBEE, 2400 ~ 2500 MHz, 2012-06 (EIA) 0805, SMD	Johanson Technology	2450BM15A0002
15	1	D1		LED, red-orange, 0603, 2.0V, 39mcd	Everlight	19-21SURC/S530-A2/TR8
16	1	D2		LED, green, 0603, 2.0V, 16mcd	Everlight	19-21SYGC/S530-E1/TR8
17	1	L301	6.8 nH	Inductor, 6n8, 0402, Monolithic type, ±5%	Murata	LQG15HS6N8J02D
18	1	L1		EMI filter bead, 0402 1k ohms Tape GHz Band Gen Use	Murata	BLM15HG102SN1D
19	2	S1-2		Tactile & Jog Switches 3.9x2.9x2.0mm	Alps	SKRKAE010
20	2	R2;R92	DNM	Resistor, general, 0402; Do not mount		
21	3	R3;R9;R91	0 ohm	Resistor, 0 ohm, 0402	Koa	RK73Z1ETTP
22	1	R32	1.5k ohm	Resistor, 1k5 ohms, 0402, 2%	Koa	RK73H1ETTP1501F (±1%)
23	2	R11;R71	270 ohm	Resistor, 270 ohms, 0402, ±1%	Koa	RK73H1E270RF-MR or RK73H1ETTP2700F
24	1	R201	2.2k ohm	Resistor, 2k2 ohms, 0402, 2%	Koa	RK73H1ETTP2201F (±1%)
25	1	R1	2 ohm	Resistor, 2 ohms, 0402, ±1%	Koa	RK73H1ETTP2R00F
26	2	R21;R31	33 ohm	Resistor, 33 ohms, 0402, 2%	Koa	RK73H1ETTP33R0F (±1%)
27	1	R301	56k ohm	Resistor, 56k ohms, 0402, ±1%	Koa	RK73H1ETTP5602F
28	1	DEBUG		10 pins connector	FCI	20021121-000-10C4LF
29	1	U2		ULTRALOW-POWER 100-mA LOW-DROPOUT LINEAR REGULATORS	TI	TPS76933DBVR or -T
30	1	P1		Non-USB compliant Type A plug SMD. Do not use in new designs! Use USB_A_TYCO	CviLux	CU01PAM10R0 (do not use)
31	1	X1		Crystal, 32.000000MHz, FA-128, 10.0pF, +/-10ppm, (FTC: +/-20ppm at -40/85C), 60ohms	Epson Toyocom	FA-128, 32MHZ, 10PPM, 10PF, 2x1.6mm, -40/+85C, 60ohms

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