

Bill of Materials

TI DESIGNS

TIDC-3PHMTR-WIFIXR

EVM430-F6779:

Line	Qty	Value	Digikey #	Description	Board Designator
1	1	24C02CSN	24LC02B-I/SN-ND	IC EEPROM 2KBIT 400KHZ 8SOIC	IC1
2	1	32.768 KHZ	300-8341-1-ND	CRYSTAL 32.768 KHZ 6PF SMD	XT1
3	2	12pF	311-1059-1-ND	CAP CER 12PF 50V 5% NPO 0603	C37 C40
4	7	15nF	311-1143-1-ND	CAP CER 0.015UF 50V 10% X7R 0805	C8 C10 C12 C15 C17 C19 C21
5	12	100nF	311-1343-1-ND	CAP CER 0.1UF 50V Y5V 0603	C23 C25 C27 C28 C30 C31 C33 C36 C43
6	7	0.1uF	311-1343-1-ND	CAP CER 0.1UF 50V Y5V 0603	C41 C42 C52 C53 C54 C57 C59
7	2	0.47uF	311-1428-1-ND	CAP CER 0.47UF 16V 10% X7R 0603	C38 C44
8	8	4.7uF	311-1455-1-ND	CAP CER 4.7UF 10V 10% X5R 0603	C22 C24 C26 C29 C32 C34 C35 C51 C49
9	14	47pF	311-1484-1-ND	CAP CER 47PF 500V 5% NPO 0805	C1 C2 C3 C4 C5 C6 C7 C9 C11 C13 C14 C16 C18 C20
10	1	10uF	399-3685-1-ND	CAP TANT 10UF 6.3V 20% 1206	C55 C56 C58
11	1	4.7uF/400V	399-6097-ND	CAP ALUM 4.7UF 400V 20% RADIAL	C100
12	8	2x1 0.1 Header	3M9447-ND	CONN HEADER VERT SGL 2POS GOLD	ACT JP2 JP11 JP12 REACT RX_EN TX_EN HD1
13	8	3x1 0.1 Header	3M9448-ND	CONN HEADER VERT SGL 3POS GOLD	JP3 JP4 JP5 JP6 JP7 JP8 JP9 JP10 AUXVCC3
14	8	5x1 0.1 Header	961105-6404-AR	CONN HEADER VERT SGL 5POS GOLD	SV2
15	3	4x1 0.1 Header	3M9449-ND	CONN HEADER VERT SGL 4POS GOLD	DGND DVCCs
16	1	2x2 0.1 Header	A106735-ND	CONN HEADER VERT DUAL 4POS GOLD	SV1
17	8	0Ω	RMCF0805ZTOR00CT-ND	RES 0.0 OHM 1/8W 0805 SMD	R/L7 R/L8 R/L9 R/L10 R/L11 R/L12 R/L13 R/L14
18	4	S20K275	495-1417-ND	VARISTOR 275V RMS 20MM RADIAL	R1 R2 R3
19	2	Orange	511-1245-ND	LED 3.1MM 610NM ORANGE TRANSP	LED_3 LED_4
20	2	Green	511-1247-ND	LED 3.1MM 563NM GREEN TRANSP	LED_1 LED_6
21	2	Red	511-1249-ND	LED 3.1MM 650NM RED TRANSPARENT	LED_ACT LED_REACT
22	2	Yellow	511-1251-ND	LED 3.1MM 585NM YELLOW TRANSP	LED_2 LED_5
					D1 D2 D3 D4 D5 D6 D7 D8 D9 D10
					D11 D12 D13 D14 D15 D16
					D28 D29 D30 D31 D32 D33 D34 D35
					D36 D37 D38 D39 D40 D41 D42 D43 D44
23	32	PMLL4148	568-1749-1-ND	DIODE SW GPP 75V 200MA SOD80C	Q1 Q2
24	2	BC857BSMD	568-6094-1-ND	TRANSISTOR PNP 45V 100MA SOT23	IRDA
25	1	TFBS4711-TT1	751-1068-1-ND	TXRX IRDA 115.2KBIT 1.9MM 6-SMD	RS1
26	1	RS-232 Connector	A32036-ND	CONN D-SUB RCPT STR 9POS 30GOLD	D24 D25 D26 D27
27	4	LL103A	LLSD103ADICT-ND	DIODE SCHOTTKY 40v 350MW MINIMELF	JTAG
28	1	JTAG	MHC14K-ND	CONN HEADER 14 POS STRGHT GOLD	L1 L3 L5 L6
29	6	EXCML20A	P10191CT-ND	BEAD CORE 4A 100 MHZ 0805 SMD	C101
30	1	150uF	P14374-ND	CAP ALUM 150UF 10V 20% RADIAL	

31	4	Switch	P8079SCT-ND	SWITCH TACTILE SPST-NO 0.02A 15V	BTN1 BTN2 BTN3 BTN4 RESET
32	2	TIL191	PS2501-1A-ND	OPTOCOUPLER 1CH TRANS 4-DIP	OPTO1 OPTO2
33	2	PS8802	PS8802-1-F3-AXCT-ND	OPTOISOLATOR ANALOG HS OUT 8SSOP	U1 U2
34	1	68Ω	RMCF0603FT68R0CT-ND	RES TF 68 OHM 1% 0.1W 0603	R65
35	8	100Ω	RMCF0603JT100RCT-ND	RES 100 OHM 1/10W 5% 0603 SMD	R54 R55 R56 R57 R58 R59 R60 R61
36	2	1kΩ	RMCF0603JT1K00CT-ND	RES 1K OHM 1/10W 5% 0603 SMD	R62 R68 R72 R78
37	1	1.5kΩ	RMCF0603JT1K50CT-ND	RES 1.5K OHM 1/10W 5% 0603 SMD	R67
38	1	220Ω	RMCF0603JT220RCT-ND	RES 220 OHM 1/10W 5% 0603 SMD	R64
39	2	2.2kΩ	RMCF0603JT2K20CT-ND	RES 2.2K OHM 1/10W 5% 0603 SMD	R69 R71
40	1	330Ω	RMCF0603JT330RCT-ND	RES 330 OHM 1/10W 5% 0603 SMD	R48
41	1	47KΩ	RMCF0603JT47K0CT-ND	RES 47K OHM 1/10W 5% 0603 SMD	R51
42	1	47Ω	RMCF0603JT47R0CT-ND	RES 47 OHM 1/10W 5% 0603 SMD	R47
					R73 R74 R75 R76 R77 R79
					R80 R81 R82 R83 R84 R85
43	18	0Ω	RMCF0603ZT0R00CT-ND	RES 0.0 OHM 1/10W 0603 SMD	R86 R87 R88 R89 R90 R91
44	5	560kΩ	RMCF0805FT560KCT-ND	RES TF 560K OHM 1% 0.125W 0805	R42 R43 R46
45	4	100KΩ	RMCF0805JT100KCT-ND	RES 100K OHM 1/8W 5% 0805 SMD	R49 R50 R52 R53
46	3	10kΩ	RMCF0805JT10K0CT-ND	RES 10K OHM 1/8W 5% 0805 SMD	R40 R41 R63
47	1	10Ω	RMCF0805JT10R0CT-ND	RES 10 OHM 1/8W 5% 0805 SMD	R36
					R14 R16 R18 R24 R25 R26
48	14	1kΩ	RMCF0805JT1K00CT-ND	RES 1.0K OHM 1/8W 5% 0805 SMD	R27 R28 R29 R30 R31 R32 R33 R34
49	3	2.37kΩ	RMCF0805FT2K37CT-ND	RES 2.37K OHM 1/8W 1% 0805 SMD	R15 R17 R19
50	9	330kΩ	RMCF0805JT330KCT-ND	RES 330K OHM 1/8W 5% 0805 SMD	R5 R6 R7 R8 R9 R10 R11 R12 R13
51	4	13Ω	RMCF0805FT13R0CT-ND	RES 13 OHM 1/8W 1% 0805 SMD	R20 R21 R22 R23
52	1	0Ω	RMCF0805ZT0R00CT-ND	RES 0.0 OHM 1/8W 0805 SMD	R4 R39 R99 R100 R101 R102 R103
53	2	EM Connector	Must Order From Samtec	CONN HEADER 20POS 1.27MM GLD SMD	RF1 RF2
54	1	SMAJ5.0ABCT	SMAJ5.0ABCT-ND	DIODE TVS 5.0V 400W UNI 5% SMD	ZD3
55	4	SMAJ5.0CA	SMAJ5.0CABCT-ND	DIODE TVS 5.0V 400W BI 5% SMD	TVS1 TVS2 TVS3 TVS4
56	1	SL127L6TH		Mill-Max 850-10-006-20-001000	EZ-RF
57	1	TI_160SEG_LCD	Custom	Custom LCDs for TI EVM	LCD1
58		DNP			R44 R45
59		DNP			C63
60	1	DNP			R66
61	1	DNP			R70
62	1	CUI_XR	102-1801-ND	Isolated Power Supply, 3.3 V, 700 mA	U\$1
63	1	MSP430F67791IPEU	From Texas Instruments	MSP430F67791 IPEU metering SoC	MSP430F67791
				CAP Electrolytic 100uF 100V 20%,	
64	1	100uF	1189-1020-ND	10mm(diameter) x 25 mm(height), ZL Rubycon, 5 mm spacing	C102
65	3	0.22uF	495-2320-ND	CAP poly 0.22uF 305VAC/630VDC X2 10% (B32922C3224M)	C39,C46,C50
66	1	2.2uF	445-4497-2-ND	CAP Ceramic 2.2uF 100V X7R 1210	C48
67	1	0.01uF	445-5100-1-ND	CAP CER 10000PF 25V 10% X7R 0603	C45
68	1	47uF	587-1383-1-ND	CAP Ceramic 47uF 10V X5R 1210	C62
69	1	0.1uF	399-1095-1-ND	CAP Ceramic 0.1uF 10V X5R 0603	C47
70	1	.056uF	490-6433-1-ND	CAP Ceramic .056uF 25V X7R 10% 0603	C60
71	1	100pF	399-6841-1-ND	CAP Ceramic 100pF 25V NPO, 5% 0603	C61
72	1	B160	641-1107-1-ND	Diode Schottky 1A 60V B160 SMB	D23
73	3	48V	1N4757ADICT-ND	Diode Zener 51V 1W 1N4757A D0-41	D17,D19,D21

74	3	1N4007	1N4007FSCT-ND	DIODE GEN PURPOSE 1000V 1A DO41	D18,D20,22
75	1	1mH	<u>Must order from CoilCraft (MSS1038-105)</u>	Inductor, SMT, MSS1038-105 (.402 x .394 inch)	L7
76	1	1MΩ	A102234CT-ND	RES 1M OHM 1/16W 1% 0603	R35,R38
77	1	33.2kΩ	RNCS0603BKE33K2CT-ND	RES 33.2K OHM 1/16W .1% 0603	R37
78	1	22.1kΩ	A102241CT-ND	RES 22.1K OHM 1/16W 1% 0603	R95
79	1	51.1Ω	A102292TR-ND	RES 51.1 OHM 1/16W 1% 0603	R96
80	1	31.6kΩ	A102261DKR-ND	RES 31.6K OHM 1/16W 1% 0603	R97
81	1	10.0kΩ	A102331CT-ND	RES 10.0K OHM 1/16W 0.1% 0603	R98
82	3	100Ω	P100W-2BK-ND	RES 100 OHM 2W 5% AXIAL	R92,R93,R94
83	1	TPS54060ADGQ	296-30339-5-ND	IC REG BUCK ADJ 0.5A 10MSOP	U3

CC3100-EM-BP_ADAPTER-Rev1.0:

Line	Qty	Value	Digikey #	Description	Board Designator
1	2	M50-4301045	952-1404-5-ND	CONN RCPT 1.27MM SMD AU 20POS	P1,P2
2	1	10uF	490-3896-1-ND	CAP CER 10UF 6.3V 20% X5R 0603	C1
3	2	Header Male 2x10	609-3375-ND	CONN HEADER 20POS .100 STR 15AU	J1,J2 R4,R6,R8,R10,R13, R14,R17,R18,R21, R22,R23,R24,R25, R26,R27,R28,R29, R30, R31 R12,R15,R19
4	19	0Ω	311-0.0HRCT-ND	RES 0.0 OHM 1/10W JUMP 0603 SMD	
5	3	DNP			

CC3100BOOST_Rev4p0-A:

Line	Qty	Value	Digikey #	Description	Board Designator
1	1	10pF	478-5991-1-ND	CAP CER 10PF 50V NP0 0402	C2
2	1	CONN_MICRO_USB	609-4618-1-ND	CONN USB MICRO B RECPT SMT R/A	J7
3	1	1kΩ	A106129CT-ND	RES 1.00K OHM 1/16W 5% 0402	R22
4	1	CONN_U.FL	J983CT-ND	CONN UMC RCPT STR 50 OHM SMD	J2
5	1	TP_1206	A106146CT-ND	1206 PROBE PAD	TP1
6	1	HEADER_3	A106719-ND	CONN HDR BRKWAY .100 3POS VERT	J8
7	2	HEADER_2	5-146285-2-ND	CONN HEADR BRKWAY .100 2POS STR	J5 J6
8	1	Crystal	535-9542-1-ND	CRYSTAL 32.768KHZ 12.5PF SMD	Y3
9	1	2.45GHz Ant	587-2200-1-ND	ANT BLUETOOTH W-LAN ZIGBEE WIMAX	E1
10	2	22uF	587-3262-1-ND	CAP CER 22UF 4V 20% X5R 0603	C15 C17
11	2	BSS138LT3G	BSS138LT3GOSCT-ND	MOSFET N-CH 50V 200MA SOT-23	Q1 Q2
12	2	100uF	445-6008-1-ND	CAP CER 100UF 6.3V 20% X5R 1206	C30 C32
13	1	CC3100	Texas Instruments Part Number: CC3100R	802.11bg Wifi Processor	U3
14	1	CD0603-B00340	CD0603-B00340CT-ND	DIODE SCHOTTKY 40V 0.03A 0603	D2
15	3	4.7uF	1276-1056-1-ND	CAP CER 4.7UF 6.3V 20% X5R 0402	C11 C13 C18
16	1	2.4GHz Filter	445-172335-1-ND	FILTER BANDPASS 2.45GHZ WLAN SMD	FL1
17	1	DNP	DNP	DO NOT MOUNT	R51 R4 R6 R11 R14 R16 R20 R21 R23 R24 R25 R26 R29 R36 R41
18	14	0Ω	P0.0JCT-ND	RES 0.0 OHM 1/10W JUMP 0402 SMD	
19	2	100Ω	P100JCT-ND	RES 100 OHM 1/10W 5% 0402 SMD	R3 R48
20	3	270Ω	P270GCT-ND	RES 270 OHM 1/10W 5% 0603 SMD	R1 R47 R49
21	1	0.1Ω	P.10AHCT-ND	RES 0.1 OHM 1/10W 5% 0603 SMD	R35
22	3	SW TACT	P8070SCT-ND	SWITCH TACTILE SPST-NO 0.02A 15V	SW1 SW2 SW3
23	1	1.0pF	490-6073-1-ND	CAP CER 1PF 50V NP0 0402	C1

24	2	10pF	490-6186-1-ND	CAP CER 10PF 50V 1% NP0 0402	C25 C26
25	1	15pF	490-5888-1-ND	CAP CER 15PF 50V 5% NP0 0402	C29
26	2	6.2pF	490-8224-1-ND	CAP CER 6.2PF 50V NP0 0402	C3 C4
27	1	1.0uF	490-5409-2-ND	CAP CER 1UF 10V 20% X5R 0402	C9
28	3	10uF	490-3896-1-ND	CAP CER 10UF 6.3V 20% X5R 0603	C8 C19 C24
29	2	10uF	490-1709-1-ND	CAP CER 10UF 10V 10% X5R 0805	C28 C31
30	1	LED	475-1409-1-ND	LED CHIPLELED 570NM GREEN 0603 SMD	D6
31	12	0.1uF	587-1227-1-ND	CAP CER 0.1UF 10V 10% X5R 0402	C5 C6 C7 C10 C12 C14 C16 C20 C21 C22 C23 C27
32	1	1uH	490-6699-1-ND	INDUCTOR POWER 1.0UH 1007	L4
33	2	2.2uH	490-5114-1-ND	INDUCTOR 2.2UH 20% 1300MA 1008	L3 L5
34	1	3.6nH	490-6756-1-ND	INDUCTOR 3.6NH 0.1NH 0402	L1
35	1	LED	475-2558-1-ND	LED CHIPLELED 587NM YLW 0603 SMD	D1
36	1	8M (1M x 8)	M25PX80-VMN6TPCT-ND	IC FLASH 8MBIT 75MHZ 8SO	U1
37	2	diode	MBR130T1GOSCT-ND	DIODE SCHOTTKY 30V 1A SOD123	D3 D4
38	2	BEAD_FERRITE	240-2389-1-ND	FERRITE 1.5A 40 OHM 0805 SMD	L7 L8
39	1	RF SWITCH	490-5907-2-ND	CONN SWG JACK STR 50 OHM SMD	J3
40	1	Crystal	Epson Part Number: Q24FA20H00396	CRYSTAL 40MHZ 8PF SMD	Y1
41	1	30.1kΩ	311-30.1KLRCT-ND	RES 30.1K OHM 1/16W 1% 0402 SMD	R43
42	2	33kΩ	311-33.0KLRCT-ND	RES 33.0K OHM 1/16W 1% 0402 SMD	R31 R46
43	8	100kΩ	311-100KJRCT-ND	RES 100K OHM 1/16W 5% 0402 SMD	R12 R17 R18 R286 R287 R288 R290 R295
44	5	10kΩ	311-10KJRCT-ND	RES 10K OHM 1/16W 5% 0402 SMD	R2 R10 R13 R19 R296
45	2	1kΩ	311-1.0KJRCT-ND	RES 1.0K OHM 1/16W 5% 0402 SMD	R15 R44
46	1	51KΩ	1276-4178-1-ND	RES 51K OHM 1/16W 1% 0402	R45
47	1	LED	67-1551-1-ND	LED SUPR RED DIFF 660NM SMD 0603	D5
48	2	CONN_RCPT_10x2	SAM1196-10-ND	CONN RCPT .100" 20POS DUAL GOLD	J9 J10
49	1	TPS79601	296-13761-1-ND	IC,VREG,LDO,1.2V-5.5V,2.7V-5.5V,-,6PIN,SOT-223	U4

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