

Evaluation Kit Build Bill of Materials

EVKIT Title: MAX2831EVKIT+
EVKIT Board Revision: D
EVKIT filename: 2831_bom_E.xls
Schematic Revision: D

DE Assigned:

Date Edited:
Edited by:

Ref Designator	Qty	Value	Tol	Description	Manufacturer
C1	1	33pF	5%	0402 Capacitor	Murata
C3, C16, C70, C79, C81, C89	6	100pF	5%	0402 Capacitor	Murata
C4	1	18pF	5%	0402 Capacitor	Murata
C5, C7, C10, C11, C13, C17, C18, C21, C22, C29, C40, C42, C43, C45, C46, C50, C52, C54, C59, C60, C64, C67, C83, C86	24	0.1uF	10%	0402 Capacitor	Murata
C6, C9, C30, C41, C62, C73, C74, C75, C87, C88	10	0.01uF	10%	0402 Capacitor	Murata
C8, C44, C48, C49, C71, C72, C77	0	Do Not Install			
C12, C51, C53, C55, C63, C65, C66	7	10uF	20%	Tantalum Cap - 'R' Case	AVX
C61	1	10uF	10%	1206 Capacitor	Murata
C68, C69	2	1.5pF	0.25pF	0402 Capacitor	Murata
C76	1	1000pF	5%	0402 Capacitor	Murata
C78	1	2200pF	10%	0402 Capacitor	Murata
C80	1	68pF	5%	0402 Capacitor	Murata
C82	1	10uF	10%	0805 Capacitor	Murata
R1, R2, R6, R10, R16, R17, R22, R27	8	75 ohm	1%	0402 Resistor	
R3, R7, R18, R23	4	3.3K	5%	0402 Resistor	
R4, R5, R21, R26	4	49.9 ohm	1%	0402 Resistor	
R8, R9, R12, R13, R28, R29, R31, R32	8	0 ohm	5%	0402 Resistor	
R11, R30, R38, R46, R50	0	Do Not Install			
R14	1	270 ohm	5%	0402 Resistor	
R39, R45	2	100 ohm	1%	0402 Resistor	
R43	1	1K	1%	0402 Resistor	
R51	1	1.2K	5%	0402 Resistor	
R52	1	750 ohm	5%	0402 Resistor	
R53	1	10K	5%	0402 Resistor	
L1, L2, L7	0	Do Not Install			
T1	0	Do Not Install			
T2, T3	2	2.4GHz		RF Balun	Murata
Y1	1	40MHz		Crystal	Kyocera Electronic Devices LLC
U1, U5	2	MAX4447		Differential Line Driver	Maxim
U2, U6	2	MAX4444		Differential-to-Single-Ended Line Receiver	Maxim
U3	1	MAX6061		Low-Dropout, High-Output-Current, Voltage Reference	Maxim

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U4	1	MAX2831		WLAN 802.11ag Transceiver	Maxim
U8, U9	2	SN74LVTH244		Octal Buffer/Driver	Texas Instruments
U10	0	MAX8882 Do Not Install		Linear Regulator	Maxim
RXRF/ANT1, TXRF/ANT2, CLKOUT, RXBBI, RXBBQ, TXBBI, TXBBQ, FREF	8	Connector		SMA Edge Mount connector - round	Johnson
J17	0	Do Not Install			
J18	1	Connector		DB25 Right Angle Connector - Male	AMP
LDO_IN, VREG	2	1X2 Header		2 Pin In-Line Header, 0.01" centers	Sullins
VCCLNA, VCCPA1, VCCPA2, VCCPLL, VCCRBB1, VCCRBB2, VCCRXXM, VCCTXXM, VCCXTAL, VCC_DB, VCC_REF	0	Do Not Install		2 Pin In-Line Header, 0.01" centers	Sullins
ANTSEL, RXBBBUF, RXTX, TXBBBUF, VCCVCO	5	1X3 Header		3 Pin In-Line Header, 0.01" centers	Sullins
JPCSB, JPB1, JPB2, JPB3, JPB4, JPB6, JPB7, JPDIN, JPLD, JPRXHP, JPCLK, JPShDNB	0	Do Not Install		3 Pin In-Line Header, 0.01" centers	Sullins
B1, B2, B3, B4, B5, B6, B7, CSB, DIN, LD, RSSI, RXBBI+, RXBBI-, RXBBQ+, RXBBQ-, RXHP, SCLK, SHDNB, TPANTSEL, TPCLKOUT, TPRXTX, TPTUNE, TPTXCMIN, TXBBI+ TXBBI-, TXBBQ+, TXBBQ-, +5V, -5V, GND1, GND2, VCCAUX, VBAT	33	Test Point		PC Mini Red	Keystone
ANTSEL, RXBBBUF, RXTX, TXBBBUF, VCCVCO, LDO_IN See Assembly Note 3	6	Shunt		Shorting Jumper, 2 position	Sullins
	1	--		MAX2831 Evaluation Kit+ Circuit Board	--

MAX2831EVKIT+ Pack-Out BOM

Qty	Description
1	Box (labeled with EVKIT Part Number and Lot Number) Maxim Box 1: Standard Small
1	WEB instructions for Maxim Data Sheet: www.maxim-ic.com , search MAX2831
1	ESD Bag, unsealed. Sufficient in size to allow easy removal of circuit board assembly
1	ESD foam packing material (to prevent PCB from moving within box)

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Ref Designator	Qty	Value	Tol	Description	Manufacturer
	1	MAX2831EVKIT+ circuit board assembly			
	1	INTF3000+ Interface Board			

Assembly Notes:

1. Each board must be marked with the BOM revision from this sheet. This mark is to appear in the white space labeled ASSY REV. This r acceptable marker is a fine point Sanford's Sharpie.
2. This IC has an exposed paddle. It must be solder attached to the circuit board to ensure proper functionality of the part.
3. Shunt should be installed between Pin 1 and Pin 2.

Revision History

3A	Production Release
3B	Test Points: 'TXBB1-' was listed twice. Corrected one of these to TXBBQ-.
D	Crystal footprint corrected. Silkscreen updated from MAX2830/31/32+ Evaluation Kit to MAX2831 Evaluation Kit+ because separate PCB created for MAX2831EVKIT+.

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EVKIT Title:
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Schematic Revision: 27-May-2014

Ref Designator	Part Number
C1	GRM1555C1H330J
C3, C16, C70, C79, C81, C89	GRM1555C1H101J
C4	GRM1555C1H180J
C5, C7, C10, C11, C13, C17, C18, C21, C22, C29, C40, C42, C43, C45, C46, C50, C52, C54, C59, C60, C64, C67, C83, C86	GRM155R61A104K
C6, C9, C30, C41, C62, C73, C74, C75, C87, C88	GRM155R71C103K
C8, C44, C48, C49, C71, C72, C77	Leave Site Open
C12, C51, C53, C55, C63, C65, C66	TAJR106M006
C61	GRM31CR60J106K
C68, C69	GRM1555C1H1R5C
C76	GRM155R71H102J
C78	GRM155R71H222K
C80	GRM1555C1H680J
C82	GRM21BR60J106K
R1, R2, R6, R10, R16, R17, R22, R27	Use Lead-Free parts only
R3, R7, R18, R23	Use Lead-Free parts only
R4, R5, R21, R26	Use Lead-Free parts only
R8, R9, R12, R13, R28, R29, R31, R32	Use Lead-Free parts only
R11, R30, R38, R46, R50	Leave Site Open
R14	Use Lead-Free parts only
R39, R45	Use Lead-Free parts only
R43	Use Lead-Free parts only
R51	Use Lead-Free parts only
R52	Use Lead-Free parts only
R53	Use Lead-Free parts only
L1, L2, L7	Leave Site Open
T1	Leave Site Open
T2, T3	LDB212G4010C-001
Y1	CX3225SB40000H0WZK21
U1, U5	MAX4447ESE+
U2, U6	MAX4444ESE+
U3	MAX6061BEUR+

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Ref Designator	Part Number
U4	MAX2831ETM+
U8, U9	SN74LVTH244ADBR
U10	MAX8882EUTJJ+
RXRF/ANT1, TXRF/ANT2, CLKOUT, RXBBI, RXBBQ, TXBBI, TXBBQ, FREF	142-0701-801
J17	Leave Site Open
J18	5747238-4
LDO_IN, VREG	PEC36SAAN
VCCLNA, VCCPA1, VCCPA2, VCCPLL, VCCRBB1, VCCRBB2, VCCRXXM, VCCTXXM, VCCXTAL, VCC_DB, VCC_REF	Leave Site Open
ANTSEL, RXBBBUF, RXTX, TXBBBUF, VCCVCO	PEC36SAAN
JPCSB, JPB1, JPB2, JPB3, JPB4, JPB6, JPB7, JPDIN, JPLD, JPRXHP, JPSCLK, JPSHDNB	Leave Site Open
B1, B2, B3, B4, B5, B6, B7, CSB, DIN, LD, RSSI, RXBBI+, RXBBI-, RXBBQ+, RXBBQ-, RXHP, SCLK, SHDNB, TPANTSEL, TPCLKOUT, TPRXTX, TPTUNE, TPTXCMIN, TXBBI+ TXBBI-, TXBBQ+, TXBBQ-, +5V, -5V, GND1, GND2, VCCAUX, VBAT	5000
ANTSEL, RXBBBUF, RXTX, TXBBBUF, VCCVCO, LDO_IN See Assembly Note 3	SSC02SYAN
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E-Number
N/A
N/A
N/A
N/A

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Schematic Revision: 27-May-2014

Ref Designator	Part Number
	N/A
	N/A

Assembly Notes:

1. Each board must be marked with the BOM revision mark is to be indelible and black in color. An acceptable marker is a fine point Sanford's Sharpie
2. This IC has an exposed paddle. It must be sold
3. Shunt should be installed between Pin 1 and Pi

Revision History

3A	28-Mar-07	Sue Harris
3B	20-Oct-08	Sue Harris
D	7-Dec-10	Sue Harris