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BILL OF MATERIAL

Doc Number	BOM12537-4
Doc Description	BOM, UZB-SD3503 US
Description	-

Revision	4A
Date	27/5/2015

Release Restriction	Partner
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R&D History

Ver	Date	Description
1A	27-May-13	1. First release
2A	6-Jun-13	1. Add Silicon Labs logo and confidentiality statements
3A	26-Sep-13	1. Added in USB Certified Connector 2. Change Antenna Description
4A	27-May-15	1. Change Serial Flash from 1Mbit to 2Mbit 2. Added alternative part for crystal

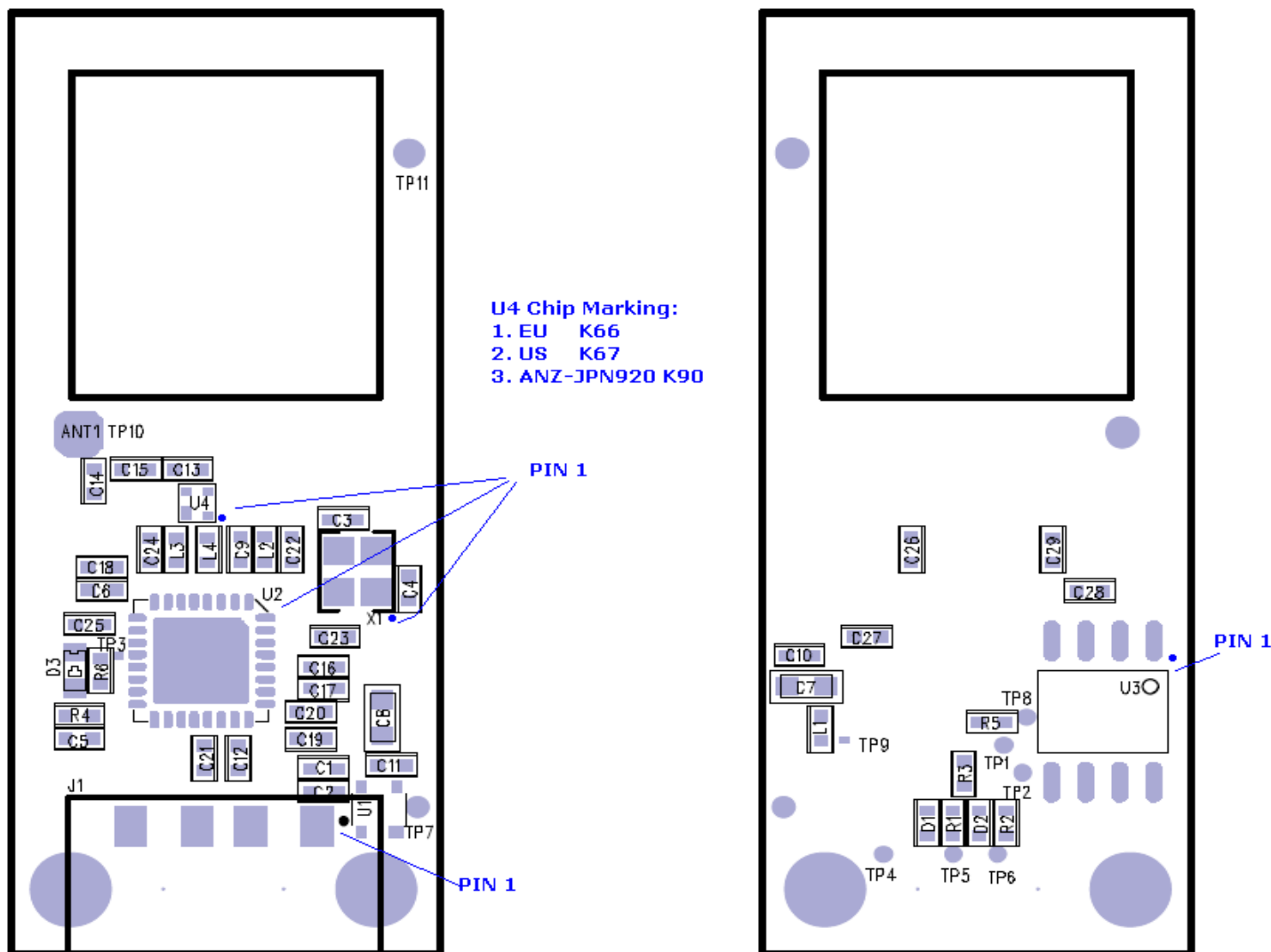
Project Name: UZB-SD3503 US**Kit Number: N.A.****Revision No: Rev 4A****Date: 27-May-2015****UZB-SD3503 US**

#	Qty	Ref	Value	Description	Decal	Manufacture Part #	Manufacturer
IC							
1	1	U2	SD3503	IC SD3503 Single Chip, QFN32,	QFN32	-	Sigma Design
2	1	U1	3.3V	IC LDO 3.3V 150mA XC6213	SSOT-24	XC6213B332NR	Torex
3	1	U4	908MHz	IC SAW 908MHz BW=25MHz	4-Pin	SF1010-01-SX	-
4	1	U3	2Mbit	IC SERIAL FLASH SPI 2Mbit 75MHz	SSOP-8	M25PE20-VMN6P	ST/Numonyx
CAPACITORS							
5	1	C9	4.3pF	Cap. Cer., +/-0.25pF, 0402, 4.3pF, NP0, 50V	0402C	GRM1555C1H4R3CA01D	Murata
6	2	C3,C4	20pF	Cap. Cer., 2%, 0402, 20pF, NP0, 50V	0402C	GRM1555C1H200GA01D	Murata
7	1	C26	33pF	Cap Cer Multilayer 33pF 50V 5% 0402 COG Cap Cer Multilayer 33pF 25V 5% 0402 COG	0402C	GRM1555C1H330JZ01 GRM1555C1E330JA01D	Murata Murata
8	2	C22, C24	47pF	Cap Cer Multilayer 47pF 5% 50V 0402 COG Cap Cer Multilayer 47pF 25V 5% 0402 COG	0402C 0402C	GRM1555C1H470JZ01D GRM1555C1E470JA01D	Murata
9	2	C12, C16	6.8nF	Cap Cer Multilayer 6.8nF 25V 10% 0402 X7R	0402C	GRM155R71E682KA01	Murata
10	1	C6	10nF	Cap Cer Multilayer 10nF 16V 10% 0404 X7R	0402C	GRM155R71C103KA01D	Murata
11	2	C10, C11	33nF	Cap Cer Multilayer 33nF 10V 10% 0402 X7R	0402C	GRM155R71A333KA01D	Murata
12	6	C17, C19 C20, C21 C23, C25	47nF	Cap Cer Multilayer 47nF 16V 10% 0402 X7R Cap Cer Multilayer 47nF 16V 10% 0402 X7R Cap Cer Multilayer 47nF 25V 10% 0402 X7R	0402C 0402C 0402C	EMK105B7473KV-F GRM155R71A473KA01D GRM155R71E473KA88D	Yageo Murata Murata
13	2	C2, C5	100nF	Cap Cer Multilayer 100nF 10V 10% 0402 X7R	0402C	GRM155R71A104KA01D	Murata
14	1	C18	1uF	Cap Cer Multilayer 1uF 4V 10% 0402 X5R Cap Cer Multilayer 1uF 6.3V 20% 0402 X5R	0402C 0402C	GRM155C80G105KE19D GRM155R60J105ME19D	Murata Murata
15	1	C1	4.7uF	Cap Cer Multilayer 4.7uF 6.3V 20% X5R	0402C	JMK105BBJ475MV-F	Taiyo Yuden
16	2	C7, C8	10uF	Cap Cer Multilayer 10uF 6.3V 20% 0603 X5R	0603C	GRM188R60J106ME47D CC0603MRX5R5BB106 06036D106MAT2A	Murata Yageo AVX
17	1	C13	7pF	Cap Cer Multilayer 7pF 50V +/-0.25pF 0402 COG	0402C	GJM1555C1H7R0CB01	Murata

18	1	C14	7.5pF	Cap Cer Multilayer 7.5pF 50V +/-0.25pF 0402 COG	0402C	GJM1555C1H7R5CB01	Murata
RESISTOR							
19	2	R1,R2	27R	Res Thick Film 27 ohm 1/16W ±5% 0402	0402R	RC0402JR-0727RL	Yageo
20	1	R3	1K5	Res Thick Film 1k5 ohm 1/16W ±5% 0402	0402R	RC0402JR-071K5L	Yageo
21	1	R6	10k	Res Thick Film 10k ohm 1/16W ±5% 0402	0402R	RC0402JR-0710KL MCR01MZPJ103 MCR01MRTJ103	Yageo Rohm Rohm
22	1	R5	22K	Res Thick Film 22k ohm 1/16W ±5% 0402	0402R	RC0402JR-0722KL MCR01MZPJ223	Yageo Rohm
OTHERS							
23	1	X1	32MHz	X-tal, 32 MHz, 12pF, +/-25PPM total, 2.5*2.0mm	FA-20H	QD2750-05-SX CLJA414320709-SX	EPSON
24	1	L1	1k 100M	FB,EMI FILTER 1k@100MHz 250mA	0402L	BLM15HG102SN1D	Murata
25	1	L2	6.2nH	IND,RF 6.2nH 2% 0402	0402L	LQP15MN6N2B02	Murata
26	1	C15	6.8nH	IND,6.8nH +/- 2% 0402	0402L	LQP15MN6N8B02	Murata
27	1	L4	12nH	IND,RF 12nH 2% 0402	0402L	LQP15MN12NG02	Murata
28	1	L3	22nH	IND,RF 22nH 2% 0402	0402L	LQP15MN22NG02	Murata
29	1	ANT1	-	ANT, UZB Helix	Helix	-	Hersey
CONNECTOR							
30	1	J1	-	Conn, USB-A MALE PLUG SMT	-	JC0015-M UAR70-4K5J1J	Kingmate (No USB TID) ACON (USB TID 60000062)
31	1	-	-	PCB, UZB-SD3503 4L Rev 1.0 (P2)	-		
32	1	-	-	Casing, USB P1A-180804U (White)	-	P1A-180804U	New Age Enclosures
NOT MOUNTED							
33	3	C27,C28 C29	33pF	Cap Cer Multilayer 33pF 50V 5% 0402 COG Cap Cer Multilayer 33pF 25V 5% 0402 COG	0402C	GRM1555C1H330JZ01 GRM1555C1E330JA01D	Murata
34	2	D1,D2	-	ESD,0402 Cer .05PF 15KV ESD,0402 USB Varistor	0402D 0402D	LXES15AAA1-017 USB0005DP	Murata AVX
35	1	D3	GREEN	LED, 0603 GREEN 5mA	SMD0603	19-213/G6C-BJ1K2VY/3T	Everlight
36		R4	1K	Res Thick Film 1K ohm 1/16W ±5% 0402	0402R	RC0402JR-071K5RL	Yageo

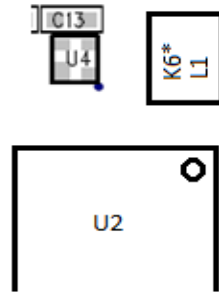
Assembly Instruction:

- 1 Top & Bottom (Pin 1 location, and orientation)



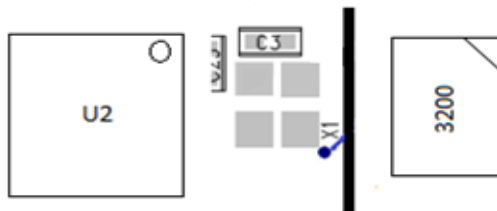
2 Assembly Note on U4

- a) Pad with longer pad is Pin 4
- b) After mounting, U4 marking (K6*) Orientation is as follows,



3 Assembly Note on X1

- a) Pad with slanted corner is Pin 2
- b) After mounting, X1 Marking (3200) Orientation is as follows,



- 4 For Ant 1 Mounting, refer to the reference board.

- 5 For UZB-SD3503 No SAW Bom
Mount 0R on the U4 pads, as shown in the following drawing.

