

**Bill of Material ANNA-B412-00B-00_BOM_REV03.xls**

Last Rev.: 21.02.2022 yach,hisa

Corresponding Schematic: ANNA-B4-00B-00 SCH_REV02.pdf

Review Report:

Part 1 / 2: Detailed Bill of Material

Article Number	Description													
ANNA-B412	ANNA-B412-00B-00 BOM													
Line	Ref-Des	u-blox Code	Description	Manufacturer	Part number	Release Status	Remarks	X Pos	Y Pos	Angle	Side			
Regular Components														
1	C1		DO NOT INSTALL											
2	C2	UBXH01-0000319	CAP CER X6S 0201 1U0 20% 10V -55/+105C	Murata Manufacturing Company, Ltd.	GRM033C81A105ME05	Released		1566.00	-2816.00	0.00	TOP			
3	C3	UBXH01-0000469	CAP CER COG 0201 820P 5% 25V -55/+125C	Murata Manufacturing Company, Ltd.	GRM0335C1E821JA01	Released		1050.00	1100.00	180.00	TOP			
4	C4	UBXH01-0000396	CAP CER X6S 0201 100N 10% 6.3V -55/+105C	Taiyo Yuden Company, Ltd.	JMK063C6104KP-F	Released		2600.00	575.00	180.00	TOP			
5	C5	UBXH01-0000320	CAP CER X6S 0402 4U7 20% 6.3V -55/+105C	Murata Manufacturing Company, Ltd.	GRM155C80J475MEAA	Released		-615.00	-2748.00	180.00	TOP			
6	C6	UBXH01-0000228	CAP CER COG 0201 22P 5% 50V -55/+125C	Murata Manufacturing Company, Ltd.	GRM0335C1H220JA01	Released		1050.00	2025.00	0.00	TOP			
7	C8	UBXH01-0000396	CAP CER X6S 0201 100N 10% 6.3V -55/+105C	Taiyo Yuden Company, Ltd.	JMK063C6104KP-F	Released		-1725.00	0.00	270.00	TOP			
8	C9	UBXH01-0000228	CAP CER COG 0201 22P 5% 50V -55/+125C	Murata Manufacturing Company, Ltd.	GRM0335C1H220JA01	Released		2600.00	1025.00	0.00	TOP			
9	C10	UBXH01-0000320	CAP CER X6S 0402 4U7 20% 6.3V -55/+105C	Murata Manufacturing Company, Ltd.	GRM155C80J475MEAA	Released		-2250.00	-2750.00	0.00	TOP			
10	C12	UBXH01-0000396	CAP CER X6S 0201 100N 10% 6.3V -55/+105C	Taiyo Yuden Company, Ltd.	JMK063C6104KP-F	Released		667.00	-2817.00	180.00	TOP			
11	C14	UBXH01-0000320	CAP CER X6S 0402 4U7 20% 6.3V -55/+105C	Murata Manufacturing Company, Ltd.	GRM155C80J475MEAA	Released		-2250.00	-2020.00	0.00	TOP			
12	C15	UBXH01-0000552	CAP CER COG 0201 0P7 +/-0.05P 25V -55/+125C	Murata Manufacturing Company, Ltd.	GRM0335C1ER70WA01	Released		-1725.00	1000.00	270.00	TOP			
13	C16	UBXH01-0000319	CAP CER X6S 0201 1U0 20% 10V -55/+105C	Murata Manufacturing Company, Ltd.	GRM033C81A105ME05	Released		2600.00	-355.00	180.00	TOP			
14	C17	UBXH01-0000468	CAP CER X6S 0201 47N 10% 6.3V -55/+105C	Murata Manufacturing Company, Ltd.	GRM033C80J473KE19	Released		2600.00	-835.00	180.00	TOP			
15	C18	UBXH01-0000319	CAP CER X6S 0201 1U0 20% 10V -55/+105C	Murata Manufacturing Company, Ltd.	GRM033C81A105ME05	Released		-2650.00	-990.00	0.00	TOP			
16	C19	UBXH01-0000319	CAP CER X6S 0201 1U0 20% 10V -55/+105C	Murata Manufacturing Company, Ltd.	GRM033C81A105ME05	Released		-2650.00	-520.00	0.00	TOP			
17	C20	UBXH01-0000503	CAP CER COG 0201 3P9 +/-0.1P 25V -55/+125C	Murata Manufacturing Company, Ltd.	GRM0335C1E3R9BA01	Released		-2650.00	-1450.00	180.00	TOP			
18	C21	UBXH01-0000551	CAP CER COG 0201 8P +/-0.25P 25V -55/+125C	Murata Manufacturing Company, Ltd.	GRM0335C1E8R0CA01	Released		-2650.00	825.00	180.00	TOP			
19	C22		DO NOT INSTALL											
20	C23	UBXH01-0000396	CAP CER X6S 0201 100N 10% 6.3V -55/+105C	Taiyo Yuden Company, Ltd.	JMK063C6104KP-F	Released		-1725.00	-1075.00	90.00	TOP			
21	E1	UBXH02-0000027	ACX AT1608 BLUETOOTH ANTENNA 2.45GHZ -40/+125C	Advanced Ceram. X (ACX)	AT1608-4R24NAA	Not Released		-1955.00	2600.00	0.00	TOP			
22	L1	UBXH09-0000331	IND TAIYOYUDEN BRL1608 10U 20% 0.22A -40/+105C	Taiyo Yuden Company, Ltd.	LSQP8160807T100M	Released		2615.00	-2178.00	270.00	TOP			
23	L2	UBXH09-0000240	IND MURATA LQP03T_02 0201 3N9 +/-0.1N 0.4A -55/+125C	Murata Manufacturing Company, Ltd.	LQP03TN3N9B02	Released		-500.00	1245.00	0.00	TOP			
24	L3	UBXH09-0000043	IND MURATA LQP03T_02 0201 15N 5% 0.25A	Murata Manufacturing Company, Ltd.	LQP03TN15N02	Released		2600.00	125.00	0.00	TOP			
25	L4	UBXH09-0000084	IND MURATA LQP03T_02 0201 4N3 3% 0.35A	Murata Manufacturing Company, Ltd.	LQP03TN4N3H02	Released		-2650.00	-75.00	0.00	TOP			
26	L5	UBXH09-0000217	IND MURATA LQP03T_02 0201 1N3 +/-0.1N 0.6A -55/+125C	Murata Manufacturing Company, Ltd.	LQP03TN1N3B02	Released		-2650.00	375.00	180.00	TOP			
27	U1	UBXH12-0000457	BTS 1/802 15.4 SOC NORDIC NRF52833 2.4GHZ WLCCSP SECURITY REV	Nordic	NRF52833-CJAA-B	Not Released		200.00	-750.00	270.00	TOP			
28	X1	UBXH12-0000169	CRYSTAL CL=12PF TAISAW 1.6x1.2 32MHZ 20PPM -40/+105C	Tai-saw Technology Co., Ltd.	TZ3124CIW-B4017	Released		2350.00	2200.00	270.00	TOP			
Additional Components														
29			Substrate	ASE										
30			Molding compound	ASE										
31			Metal Lid	ASE										
32			Solder Paste	ASE										
Total:		30												