

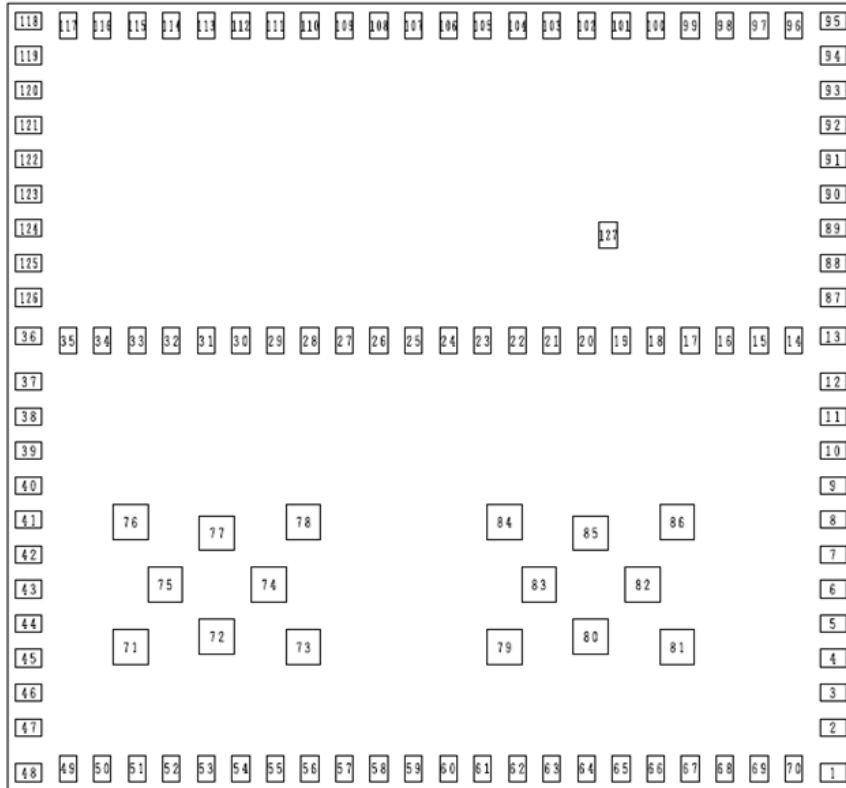
LBUA2ZZ2DK Operational Description

FCC ID of this product is as follows.
FCC ID: VPYLB2DK

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1. PIN Layout



Top View

Pin No.	Pin name	Pin No.	Pin name	Pin No.	Pin name	Pin No.	Pin name
1	GND	33	GND	65	VDD_BUF	97	NC
2	SR_SWDIO	34	GND	66	GND	98	NC
3	SR_SWDCLK	35	GND	67	GND	99	NC
4	GND	36	GND	68	GND	100	NC
5	GND	37	GND	69	GND	101	NC
6	SR_UART_TX	38	GND	70	SR_SWO	102	NC
7	SR_UART_RX	39	GND	71	GND	103	NC
8	GND	40	SCLK	72	GND	104	NC
9	GND	41	MISO	73	GND	105	NC
10	GND	42	MOSI	74	GND	106	NC
11	GND	43	CS	75	GND	107	NC
12	GND	44	PIO4/ACC_CS	76	GND	108	NC
13	GND	45	PIO5/SE_EN	77	GND	109	NC
14	GND	46	PIO6/ACC_INT1	78	GND	110	NC
15	GND	47	PIO7/ACC_INT2	79	GND	111	NC
16	GND	48	GND	80	GND	112	NC
17	GND	49	GND	81	GND	113	NC
18	GND	50	PIO8/UART_TX	82	GND	114	NC
19	GND	51	PIO9/UART_RX	83	GND	115	NC
20	GND	52	PIO10/SCL	84	GND	116	NC
21	SRLED	53	PIO11/SDA	85	GND	117	NC
22	GND	54	PIO12/SWDCLK	86	GND	118	NC
23	GND	55	PIO13/SWDIO	87	GND	119	NC
24	SWD_RESETN	56	GND	88	NC	120	NC
25	GND	57	PIO17/VIBRATION	89	NC	121	NC
26	VDD_3V3_MCU	58	PIO18/VIBALERT	90	NC	122	NC
27	GND	59	PIO19/LEDB	91	NC	123	NC
28	GND	60	PIO20/LEDG	92	NC	124	NC
29	GND	61	PIO21/SWO_LED	93	NC	125	NC
30	GND	62	GND	94	NC	126	NC
31	GND	63	GND	95	NC	127	NC
32	GND	64	VBAT_IO	96	NC		

2. Supply Voltage

DUT PIN Name	Min.	Typ.	Max.	unit
VDD_3V3_MCU	1.9	3.3	3.6	V
VDD_BUF	1.9	3.3	3.6	V
VBAT_IO	1.9	3.3	3.6	V

3. Power Levels

UWB

Modulation	Channel	MAXIMUM TUNE UP TOLERANCE	
		Peak Power	Average Power
BPM-BPSK	5, 9	0dBm/50MHz	-41.3dBm/MHz
BPSK	5, 9	0dBm/50MHz	-41.3dBm/MHz

Bluetooth Low Energy

Mode	MAXIMUM TUNE UP TOLERANCE	Setting Parameter Value(Typical) [dBm]
LE	4.13 dBm	-30 ~ 1
LE 2Mbps	4.13 dBm	

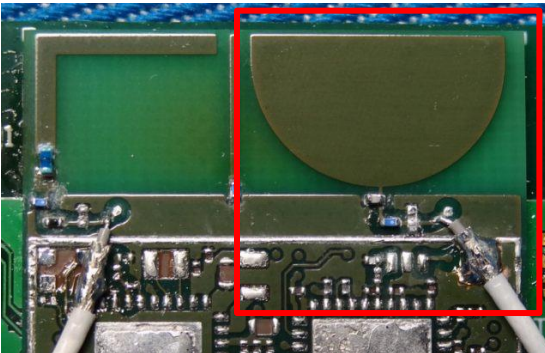
4. Key Features

- Main IC : UWB NXP SR040, MCU + Bluetooth LE NXP QN9090
 - Compliant with IEEE802.15.4z HRP PHY
 - Supports SHF UWB bands, Ch5(6489.6MHz) and 9(7987.2MHz)
 - Data rates of 6.81Mbps, 7.80Mbps,
 - Modulation: BPM-BPSK, BPSK
 - Support Feature: Transmission Period
UWB intentional radiator cease transmission within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being received.

- Compliant with Bluetooth LE 5.0
- Data rates of 1Mbps, 2Mbps,

5. Antenna



Maker	Supported Antenna				Appearance
	P/N	Type	Gain [dBi]		
			5ch	9ch	
Murata	Type2DK_UWB_ANT	Monopole	1.6	4.0	

Maker	Supported Antenna				Appearance
	P/N	Type	Gain [dBi]		
			2.4GHz		
Murata	Type2DK_BLE_ANT	Monopole	-4.8	