

LBUA2ZZ2DK User Manual for FCC

FCC ID:VPYLB2DK

● Warning;

CFR §15.521(a) notice

This module may not be employed for the operation of toys. Operation onboard aircraft, ship or satellite is prohibited.

CFR §15.519 (a)(2) notice

The use of antennas mounted on outdoor structures, e.g., antennas mounted on the outside of a building or on a telephone pole, or any fixed outdoors infrastructure is prohibited. Antennas may be mounted only on the handheld UWB device.

CFR §15.519 (a)(3) notice

UWB devices operating under the provisions of this section may operate indoors or outdoors.

This manual is based on KDB 996369, which is designed to ensure that module manufacturer correctly communication the necessary information to host manufacturers that incorporate their modules.

INTEGRATION INSTRUCTIONS

1. General: Applicable

Sections 2 through 12 describe the items that must be provided in the integration instructions for host product manufacturers (e.g., OEM instruction manual) to use when integrating a module in a host product. This Modular transmitter applicant(muRata) should include information in their instructions for all these items indicating clearly when they are not applicable.

2. List of applicable FCC rules: Applicable

This device complies with below part 15 of FCC Rules.
Part 15 Subpart C
Part 15 Subpart F (CFR §15.519)

3. Summarize the specific operational use conditions : Applicable

The OEM integrator is responsible for ensuring that the end-user has no manual instruction to remove or install module, This module has been evaluated stand alone to meet portable use without restriction, however, if a host product also contains other transmitter(s) and antenna(s), necessary test or evaluation needs to be performed in order to meet the requirement.

Host manufactures must include a means to disable this module when the host is on a ship or aircraft. The host must supply either a software switch or a physical switch to allow the end user to disable the UWB functionality.

4. Limited module procedures : Applicable

This module needs to supply a regulated voltage from host device.

- VBAT_IO: 1.9 ~ 3.6V

5. Trace antenna designs : Not Applicable

LBUA2ZZ2DK has on board antenna.

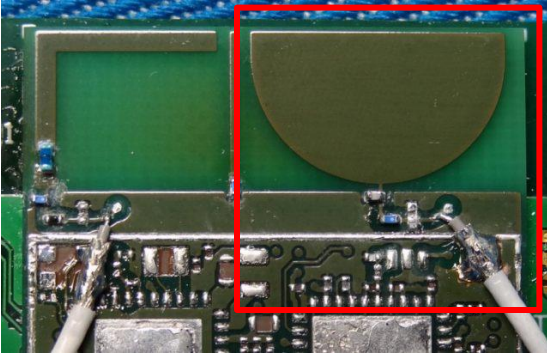
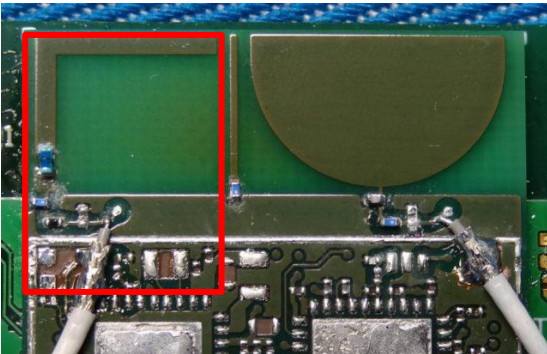
6. RF exposure considerations : Applicable

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines as this equipment has very low levels of RF energy.

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7. Antennas : Applicable

LBUA2ZZ2DK has on board 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		

8. Label and compliance information : Applicable

The following statements must be described on the host device of this module;

Contains Transmitter Module FCC ID: VPYLB2DK

or

Contains FCC ID: VPYLB2DK

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

*If it is difficult to describe this statement on the host product due to the size, please describe in the User's manual.

The following statements must be described on the user manual of the host device of this module;

FCC CAUTION Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines as this equipment has very low levels of RF energy.



9. Information on test modes and additional testing requirements: Applicable

Please check the installation manual first.

Please contact Murata if you have any questions when conducting the RF certification test on the host.

We (Murata) are ready to present the control manual and others for the RF certification test.

10. Additional testing, Part 15 Subpart B disclaimer : Applicable

The modular transmitter is only FCC authorized for the specific rule parts (i.e., FCC transmitter rules) listed on the grant, and the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification.

The final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

11. Note EMI Considerations : Applicable

Note that a host manufacturer is recommended to use KDB 996369 D04 Module Integration Guide recommending as "best practice" RF design engineering testing and evaluation in case non-linear interactions generate additional non-compliant limits due to module placement to host components or properties.

For standalone mode, reference the guidance in D04 Module Integration Guide and for simultaneous mode⁷; see D02 Module Q&A Question 12, which permits the host manufacturer to confirm compliance.

12. How to make changes: Applicable

Please contact Murata if your product condition is other than the Grant condition.

*Your contact window from Murata

or

<https://www.murata.com/en-us/support/contactinformation>