

# 2FJ User Manual for FCC

FCC ID:VPYLB2FJ1

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.

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.

#### 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.

## **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

### **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 mobile 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.

## 4. Limited module procedures : Not Applicable

## 5. Trace antenna designs : Not Applicable

2FJ 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. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body.

If you wish to use it as a portable equipment, please contact Murata in advance.

\*Portable equipment : Equipment for which the spaces between human body and antenna are used within 20cm.

\*Mobile equipment : Equipment used at position in which the spaces between human body and antenna exceeded 20cm.

# 2FJ User Manual for FCC

## 7. Antennas : Applicable

2FJ has on board antenna.

Maker	Supported Antenna		
	P/N	Type	Peak Gain [dBi]
			2.4GHz
Murata	2FJ_Antenna	$\lambda/4$ Monopole Antenna	1.33

# 2FJ User Manual for FCC

## 8. Label and compliance information : Applicable

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

Contains Transmitter Module FCC ID:VPYLB2FJ1

or

Contains FCC ID: VPYLB2FJ1

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;

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# 2FJ User Manual for FCC

When installing it in a mobile equipment. Please describe the following warning to the manual.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines. This equipment should be installed and operated keeping the radiator at least 20cm or more away from person's body.

When installing it in a portable equipment. Please describe the following warning to the manual.

The available scientific evidence does not show that any health problems are associated with using low power wireless devices. There is no proof, however, that these low power wireless devices are absolutely safe. Low power wireless devices emit low levels of radio frequency energy (RF) in the microwave range while being used. Whereas high levels of RF can produce health effects (by heating tissue), exposure of low-level RF that does not produce heating effects causes no known adverse health effects. Many studies of low-level RF exposures have not found any biological effects. Some studies have suggested that some biological effects might occur, but such findings have not been confirmed by additional research. [Model Name] has been tested and found to comply with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines.



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

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 manufacture 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.