

## Request for Limited Modular Transmitter Approval

January 13, 2015

FCC ID : VPYLB1AD

Applicant: Murata Manufacturing Co., Ltd.

This transmitter, model: Type1AD is designed by us.

It complies with the modular transmitters basic requirements (Item 1 to 8) in FCC Part 15 Subpart C Section 15.212 as indicated below:

### Modular Approval Checklist:

Modular approval requirement	Yes	No
(1) Have its own RF shielding.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(2) Have buffered modulation/data inputs.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(3) Have its own power supply regulation.	<input type="checkbox"/>	<input checked="" type="checkbox"/> This module has the power supply regulator. However the one of input voltages to RF part don't go through the regulator. The stable voltage will be supplied by end product. Therefore end product will be required to have the power supply regulator.
(4) Comply with the antenna and transmission system requirements of § 15.203, 15.204(b) and 15.204(c).	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(5) Tested in a stand-alone configuration. Unless the transmitter module will be battery powered, it must comply with the AC line conducted requirements found in FCC § 15.207. AC or DC power lines and data input/output lines connected to the module must not contain ferrites, unless they will be marketed with the module. The length of these lines shall be the length typical of actual use or, if that length is unknown, at least 10 centimeters to insure that there is no coupling between the case of the module and supporting equipment. Any accessories, peripherals, or support equipment connected to the module during testing shall be unmodified and commercially available.	<input type="checkbox"/>	<input checked="" type="checkbox"/> The modular transmitter has been performed the testing in a state of being installed on a test jig board simulating the board of the installed end product, therefore has not been performed the testing as a stand alone and then confirmed the compliance. The module and antenna will be mounted on a board similar to the one shown in the test set photo, and the board will be installed in the end product.
(6) Equipped with either a permanently affixed label or must be capable of electronically displaying its FCC ID. If the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module.	<input type="checkbox"/>	<input checked="" type="checkbox"/> Since there is no space which indicates FCC ID, FCC ID is not indicated on the label. So FCC ID is indicated in the manual, then the outside of the device into which the module is installed also displays a label referring to the enclosed module.
(7) Comply with any specific rules or operating requirements that ordinarily apply to a complete transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
(8) Comply with any applicable RF exposure requirements in its final configuration: The modular transmitter complies with FCC radiation exposure requirement.	<input checked="" type="checkbox"/>	<input type="checkbox"/>



Karun Malhotra

Director, Corporate Technology Planning & Management Group,  
Technology & Business Development Unit  
Murata Manufacturing Co., Ltd.