TCB

GRANT OF EQUIPMENT AUTHORIZATION

TCB

Certification

Issued Under the Authority of the Federal Communications Commission

By:

SGS North America, Inc. 620 Old Peachtree Road NW Suite 100 Suwanee, GA 30024

Date of Grant: 02/08/2017

Application Dated: 02/08/2017

Murata Manufacturing Co., Ltd. 10-1, Higashikotari 1-chome Nagaokakyo-shi Kyoto, 617-8555 Japan

Attention: MOTOO HAYASHI, GENERAL MANAGER

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE. and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

FCC IDENTIFIER:

VPYCMABZ

Name of Grantee: Murata Manufacturing Co., Ltd.

Equipment Class: Digital Transmission System

Notes:

LoRa module

Modular Type:

15C

15C

Limited Single Modular

Output

Frequency **Tolerance**

Emission

Grant Notes

FCC Rule Parts

Frequency

Watts

0.0746

Designator

Range (MHZ)

902.3 - 914.9

0.0644

903.0 - 914.2

Power output is conducted at the antenna terminal. Limited Modular Approval. This device is to be used only for mobile and fixed application. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter, except in accordance with FCC multi-transmitter evaluation procedures as documented in this filing. End-Users must be provided with transmitter operation conditions for satisfying RF exposure compliance. OEM integrators must insure that the end user has no manual instructions to remove or install this module. For mobile and fixed operating configurations the antenna gain, including cable loss, must not exceed 1.04dBi for satisfying RF exposure compliance according to as defined in 2.1091. The Grantee is responsible for providing the documentation required for modular use to OEM/Integrators. This device supports 125KHz and 500KHz bandwidth modes.

900 MHz Band operation includes DTS and Hybrid modes of operation.