

Certificate

of
Radio Equipment in JAPAN

No: 201-190110 / 00

Telefication, operating as Conformity Assessment Body (CAB ID Number: 201) with respect to Japan, declares that the listed product complies with the Technical Regulations Conformity Certification of Specified Radio equipment (ordinance of MPT N° 37,1981)

Product description: **802.11 b/g/n WLAN, Bluetooth & BLE Module w/Integrated MCU**

Trademark: **Laird Connectivity**

Type designation: **Sterling™-EWB**

Hardware / Software version: **R3.0 / R1.0**

Manufacturer: **Laird Connectivity**

Address: **W66N220 Commerce Court, Cedarburg,**

City: **53012 Wisconsin**

Country: **United States**

This certificate is granted to:

Name: **Laird Connectivity**

Address: **W66N220 Commerce Court, Cedarburg,**

City: **53012 Wisconsin**

Country: **United States**

This certificate has THREE Annexes.

Zevenaar, 19 July 2019

CAB



David Chen
Product Assessor



- The validity of this Certificate is limited to products, which are equal to the one examined in the type-examination
- When the manufacturer (or holder of this certificate) is placing the product on the Japanese market, the product must be affixed with the following Specified Radio Equipment marking:



Remarks and observations

The following conditions are applicable:

Radio module

Antennas for IEEE 802.11b/g/n & Bluetooth:

Chip antenna, max gain of 1.5 dBi

Dipole antenna, max gain of 2 dBi

FlexPIFA antenna, max gain of 2 dBi

FlexNotch antenna, max gain of 2 dBi

PIFA antenna, max gain of 2 dBi

PCB Dipole antenna, max gain of 2 dBi

Documentation lodged for this type-examination

Test Reports:

- International Certification Corp.: JR931402AC, 10 July 2019
- International Certification Corp.: JR931402AD, 10 July 2019
- International Certification Corp.: JR931402AE, 10 July 2019

Product Documentation:

- Assembly drawings
- Bill of materials
- Block diagram
- Electrical diagrams
- Antenna specifications
- Internal photos
- External photos
- Manual
- Production quality
- Test setup photos

Technical Standards and Specifications

The product shows no non-compliances with:

- Equipment Radio Regulations: 2008 (including amendments)

Chapter I, General Provisions

Chapter II, Transmitting equipment

Chapter III, Receiving Equipment

Chapter IV, section 4.17 article 49.20

Radio equipment specified in:

Item 19, Paragraph 1, Article 2

Technical features and characteristics

The product includes the following features and characteristics:

Bluetooth (incl. AFH)_1M

- Operating frequency range: 2402-2480 MHz (79 channels)
- ITU designation: 78M7 F1D,G1D
- Maximum output power: 0.32 mW/MHz rated

Bluetooth (incl. AFH)_3M

- Operating frequency range: 2402-2480 MHz (79 channels)
- ITU designation: 78M9 F1D,G1D
- Maximum output power: 0.32 mW/MHz rated

Bluetooth LE

- Operating frequency range: 2402-2480 MHz (40 channels)
- ITU designation: 1M29 F1D
- Maximum output power: 3.5 mW rated

IEEE 802.11b

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 13M8 G1D
- Maximum output power: 9.5 mW/MHz rated

IEEE 802.11g

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 16M5 D1D,G1D
- Maximum output power: 3.5 mW/MHz rated

IEEE 802.11n 20 MHz

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 17M5 D1D,G1D
- Maximum output power: 2.5 mW/MHz rated

The product as described in this Certificate includes the following type designations:

- Product description: 802.11 b/g/n WLAN, Bluetooth & BLE Module w/Integrated MCU
- Trademark: Laird Connectivity
- Type designation: Sterling™-EWB
- Hardware version: R3.0
- Software version: R1.0