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Certificate

of

Radio Equipment in JAPAN

No: 201-180775 / 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: **802.11a/b/g/n/ac RTL8822CE Combo module**
Trademark: **Realtek**
Type designation: **RTL8822CE**
Hardware / Software version: **2v0 / v0.03**

Manufacturer: **Realtek Semiconductor Corp.**
Address: **No. 2, Innovation Road II, Hsinchu Science Park**
City: **300 Hsinchu**
Country: **Taiwan**

This certificate is granted to:

Name: **Realtek Semiconductor Corp.**
Address: **No. 2, Innovation Road II, Hsinchu Science Park**
City: **300 Hsinchu**
Country: **Taiwan**

This certificate has THREE Annexes.

Zevenaar, 30 October 2018

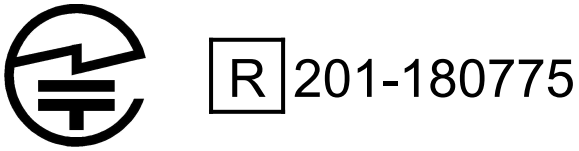
CAB

David Chen

David Chen
Product Assessor

PRODUCTS
RvA C 224

- 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:

1T/1R and MIMO: 2T/2R in 2.4GHz and 5GHz
Antennas for IEEE 802.11a/b/g/n/ac:
PIFA antenna, max gain of 3.5 dBi at 2.4 GHz and max gain of 5 dBi at 5 GHz
Dipole antenna, max gain of 3.14 dBi at 2.4 GHz and max gain of 5 dBi at 5 GHz
Antennas for Bluetooth:
PIFA antenna, max gain of 3.5 dBi at 2.4 GHz
Dipole antenna, max gain of 3.14 dBi at 2.4 GHz

Documentation lodged for this type-examination

Test Reports:

- Bureau Veritas CPS (H.K.) Limited, Taoyuan Branch: RJ180816E04, 26 October 2018
- Bureau Veritas CPS (H.K.) Limited, Taoyuan Branch: RJ180816E04-1, 26 October 2018
- Bureau Veritas CPS (H.K.) Limited, Taoyuan Branch: RJ180816E04-2, 26 October 2018
- Bureau Veritas CPS (H.K.) Limited, Taoyuan Branch: RJ180816E04-3, 26 October 2018

Product Documentation:

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

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
Item 19-2, Paragraph 1, Article 2
Item 19-3, Paragraph 1, Article 2
Item 19-3-2, Paragraph 1, Article 2

Technical features and characteristics

The product includes the following features and characteristics:

Bluetooth (incl. AFH)
- Operating frequency range: 2402-2480 MHz (79 channels)
- ITU designation: 78M4 F1D,G1D
- Maximum output power: 1.5 mW/MHz rated

Bluetooth LE_1M
- Operating frequency range: 2402-2480 MHz (40 channels)
- ITU designation: 1M33 F1D
- Maximum output power: 7 mW rated

Bluetooth LE_2M
- Operating frequency range: 2404-2478 MHz (38 channels)
- ITU designation: 2M19 F1D
- Maximum output power: 7.1 mW rated

IEEE 802.11b_1TX
- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 13M4 G1D
- Maximum output power: 7.2 mW/MHz rated

IEEE 802.11g_1TX
- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 17M0 D1D,G1D
- Maximum output power: 7.3 mW/MHz rated

IEEE 802.11n 20 MHz_1TX
- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 18M6 D1D,G1D
- Maximum output power: 7.2 mW/MHz rated

IEEE 802.11n 40 MHz_1TX
- Operating frequency range: 2422-2462 MHz (9 channels)
- ITU designation: 36M3 D1D,G1D
- Maximum output power: 3.6 mW/MHz rated

IEEE 802.11b ch14_1TX
- Operating frequency range: 2484 MHz
- ITU designation: 20M7 G1D
- Maximum output power: 7 mW/MHz rated

IEEE 802.11b_2TX
- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 11M0 G1D
- Maximum output power: 7.3 mW/MHz rated

IEEE 802.11g_2TX
- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 17M0 D1D,G1D
- Maximum output power: 7.3 mW/MHz rated

IEEE 802.11n 20 MHz_2TX
- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 18M3 D1D,G1D
- Maximum output power: 7.3 mW/MHz rated

IEEE 802.11n 40 MHz_2TX
- Operating frequency range: 2422-2462 MHz (9 channels)
- ITU designation: 36M1 D1D,G1D
- Maximum output power: 3.6 mW/MHz rated

IEEE 802.11a_2TX
- Operating frequency range: 5180-5240 MHz (4 channels)
- ITU designation: 16M6 D1D,G1D
- Maximum output power: 3.1 mW/MHz rated

IEEE 802.11n/ac (VHT20)_2TX
- Operating frequency range: 5180-5240 MHz (4 channels)
- ITU designation: 17M7 D1D,G1D
- Maximum output power: 3.1 mW/MHz rated

IEEE 802.11n/ac (VHT40)_2TX
- Operating frequency range: 5190-5230 MHz (2 channels)
- ITU designation: 36M2 D1D,G1D
- Maximum output power: 1.5 mW/MHz rated

IEEE 802.11ac (VHT80)_2TX
- Operating frequency range: 5210 MHz
- ITU designation: 74M8 D1D,G1D
- Maximum output power: 0.75 mW/MHz rated

IEEE 802.11a_2TX
- Operating frequency range: 5260-5320 MHz (4 channels)
- ITU designation: 16M6 D1D,G1D
- Maximum output power: 3.1 mW/MHz rated

IEEE 802.11n/ac (VHT20)_2TX
- Operating frequency range: 5260-5320 MHz (4 channels)
- ITU designation: 17M7 D1D,G1D
- Maximum output power: 3.1 mW/MHz rated

IEEE 802.11n/ac (VHT40)_2TX
- Operating frequency range: 5270-5310 MHz (2 channels)
- ITU designation: 36M2 D1D,G1D
- Maximum output power: 1.5 mW/MHz rated

IEEE 802.11ac (VHT80)_2TX
- Operating frequency range: 5290 MHz
- ITU designation: 74M8 D1D,G1D
- Maximum output power: 0.75 mW/MHz rated

IEEE 802.11a_2TX
- Operating frequency range: 5500-5700 MHz (11 channels)
- ITU designation: 16M6 D1D,G1D
- Maximum output power: 10 mW/MHz rated

IEEE 802.11n/ac (VHT20)_2TX
- Operating frequency range: 5500-5700 MHz (11 channels)
- ITU designation: 17M7 D1D,G1D
- Maximum output power: 10 mW/MHz rated

IEEE 802.11n/ac (VHT40)_2TX
- Operating frequency range: 5510-5670 MHz (5 channels)
- ITU designation: 36M2 D1D,G1D
- Maximum output power: 5 mW/MHz rated

IEEE 802.11ac (VHT80)_2TX
- Operating frequency range: 5530-5610 MHz (2 channels)
- ITU designation: 75M2 D1D,G1D
- Maximum output power: 2.5 mW/MHz rated

IEEE 802.11a_1TX
- Operating frequency range: 5180-5240 MHz (4 channels)
- ITU designation: 16M5 D1D,G1D
- Maximum output power: 3.1 mW/MHz rated

IEEE 802.11n/ac (VHT20)_1TX
- Operating frequency range: 5180-5240 MHz (4 channels)
- ITU designation: 17M7 D1D,G1D
- Maximum output power: 3.1 mW/MHz rated

IEEE 802.11n/ac (VHT40)_1TX
- Operating frequency range: 5190-5230 MHz (2 channels)
- ITU designation: 36M2 D1D,G1D
- Maximum output power: 1.5 mW/MHz rated

IEEE 802.11ac (VHT80)_1TX
- Operating frequency range: 5210 MHz
- ITU designation: 74M8 D1D,G1D
- Maximum output power: 0.75 mW/MHz rated

IEEE 802.11a_1TX
- Operating frequency range: 5260-5320 MHz (4 channels)
- ITU designation: 16M5 D1D,G1D
- Maximum output power: 3.1 mW/MHz rated

IEEE 802.11n/ac (VHT20)_1TX
- Operating frequency range: 5260-5320 MHz (4 channels)
- ITU designation: 17M7 D1D,G1D
- Maximum output power: 3.1 mW/MHz rated

IEEE 802.11n/ac (VHT40)_1TX
- Operating frequency range: 5270-5310 MHz (2 channels)
- ITU designation: 36M2 D1D,G1D
- Maximum output power: 1.5 mW/MHz rated

IEEE 802.11ac (VHT80)_1TX
- Operating frequency range: 5290 MHz
- ITU designation: 74M8 D1D,G1D
- Maximum output power: 0.75 mW/MHz rated

IEEE 802.11a_1TX
- Operating frequency range: 5500-5700 MHz (11 channels)
- ITU designation: 16M6 D1D,G1D
- Maximum output power: 9.7 mW/MHz rated

IEEE 802.11n/ac (VHT20)_1TX
- Operating frequency range: 5500-5700 MHz (11 channels)
- ITU designation: 17M7 D1D,G1D
- Maximum output power: 9.1 mW/MHz rated

IEEE 802.11n/ac (VHT40)_1TX
- Operating frequency range: 5510-5670 MHz (5 channels)
- ITU designation: 36M2 D1D,G1D
- Maximum output power: 5 mW/MHz rated

IEEE 802.11ac (VHT80)_1TX
- Operating frequency range: 5530-5610 MHz (2 channels)
- ITU designation: 75M6 D1D,G1D
- Maximum output power: 1.9 mW/MHz rated

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

- Product description:	802.11a/b/g/n/ac RTL8822CE Combo module
- Trademark:	Realtek
- Type designation:	RTL8822CE
- Hardware version:	2v0
- Software version:	v0.03