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The Netherlands
Chamber of Commerce
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telefication

Certificate

of

Radio Equipment in JAPAN

No: 142150447/AA/12

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: **WiFi and Bluetooth Module**
Trademark: **Texas Instrument**
Type designation: **WL18MODGI**

Manufacturer: **Texas Instruments Incorporated**
Address: **12500 TI BLVD.,**
City: **75243 Dallas Texas,**
Country: **United States**

This certificate is granted to:

Name: **Texas Instruments Incorporated**
Address: **12500 TI BLVD.,**
City: **75243 Dallas Texas,**
Country: **United States**

This certificate has THREE Annexes.

Apeldoorn, 09 September 2021

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:

R 201-140447

Remarks and observations

The following conditions are applicable:

This is a modular approval device.

Antennas for IEEE 802.11a/n (20/40 MHz)

PCB antenna, max gain of 4.5 dBi at 5 GHz

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

Chip antenna, max gain of 3,2 dBi at 2.4 GHz

AA/01: Two Antenna added.

Main Antenna: SANSEI/ANTDC-093A0; Sub Antenna: SANSEI/ANTDC-094A0

AA/02: Four Antenna added.

Wistron NeWeb/81XCAW15.G01

Wistron NeWeb/81XCAW15.G02

Wistron NeWeb/81XCAQ15.G03

Wistron NeWeb/81XCAQ15.G04

AA/03: Addition of two new antenna

AA/04: Three Antenna added.

Taoglas/SWLP .2450.12.4.B.02

Laird/MAF94432

Linx/ANT-2.4-CW-RAH

AA/05: One Antenna added.

Pulselarsen/W1039B030

AA/06: One Antenna added (Gain: 3 dBi)

Laird/TRAB24003

AA/07: 3 antennas added

Ethertronics/1000418

ProAnt/403-100

ProAnt/403-150

AA/08: Two Antennas added

Nissei Limited/FMM2.4W45

Nissei Limited/FMM2.4W-H1M-BP-3-RSMA

AA/09: Added two antenna's;

PCB antenna, TE connectivity 2118060-1

Embedded antenna, Ethertronocs 1000423

AA/11: Added one antenna;

PIFA antenna, Laird EFD2455A3S-10MHF1

AA/12: Adding antennas

MA931.A.LBICGH.001

BB-AW-A2458G-FSRPK

Documentation lodged for this type-examination

Test Reports:

- Sporton International Inc.: JR862610A, 02 July 2018
- Sporton International Inc.: JR862610B, 02 July 2018
- Sporton International Inc.: JR862610C, 02 July 2018
- Sporton International Inc.: JR862610D, 02 July 2018
- Sporton International Inc.: JR862610E, 02 July 2018
- Sporton International Inc.: JR862610F, 02 July 2018
- Sporton International Inc.: JR862610-01A, 02 July 2019
- Sporton International Inc.: JR862610-01B, 02 July 2019
- Sporton International Inc.: JR862610-01C, 02 July 2019
- Sporton International Inc.: JR862610-01D, 02 July 2019
- Sporton International Inc.: JR862610-01E, 02 July 2019
- Sporton International Inc.: JR862610-01F, 02 July 2019
- Sporton International Inc.: JR983025A, 10 September 2019
- Sporton International Inc.: JR983025B, 10 September 2019
- Sporton International Inc.: JR983025C, 10 September 2019
- Sporton International Inc.: JR983025D, 10 September 2019
- Sporton International Inc.: JR983025E, 10 September 2019
- Sporton International Inc.: JR983025F, 10 September 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
Chapter IV, section 4.17 article 49.21

Radio equipment specified in:
Item 19, Paragraph 1, Article 2

Item 19-11, 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:

IEEE 802.11b
- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 14M7 G1D
- Maximum output power: 10 mW/MHz rated

IEEE 802.11g
- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 20M6 D1D
- Modulation method(s): 2.0
- Maximum output power: 10 mW/MHz rated

IEEE 802.11n 20 MHz
- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 20M3 D1D
- Modulation method(s): 3.5
- Maximum output power: 10 mW/MHz rated

IEEE 802.11n 40 MHz
- Operating frequency range: 2422-2462 MHz (9 channels)
- ITU designation: 36M6 D1D
- Maximum output power: 5 mW/MHz rated

IEEE 802.11b 14 ch
- Operating frequency range: 2484-2484 MHz
- ITU designation: 17M8 G1D
- Maximum output power: 3.2 mW/MHz rated

Bluetooth (incl. AFH)
- Operating frequency range: 2402-2480 MHz (79 channels)
- ITU designation: 78M8 F1D
- Maximum output power: 0.8 mW/MHz rated

Bluetooth LE
- Operating frequency range: 2402-2480 MHz (40 channels)
- ITU designation: 1M04 F1D
- Maximum output power: 4.5 mW rated

IEEE 802.11a
- Operating frequency range: 5180-5240 MHz (4 channels)
- ITU designation: 17M4 D1D
- Maximum output power: 3.5 mW/MHz rated

IEEE 802.11n 20 MHz
- Operating frequency range: 5180-5240 MHz (4 channels)
- ITU designation: 17M7 D1D
- Maximum output power: 3.5 mW/MHz rated

IEEE 802.11n 40 MHz
- Operating frequency range: 5190-5230 MHz (2 channels)
- ITU designation: 35M8 D1D
- Maximum output power: 1.75 mW/MHz rated

IEEE 802.11a
- Operating frequency range: 5260-5320 MHz (4 channels)
- ITU designation: 16M7 D1D
- Maximum output power: 1.75 mW/MHz rated

IEEE 802.11n 20 MHz
- Operating frequency range: 5260-5320 MHz (4 channels)
- ITU designation: 17M7 D1D
- Maximum output power: 1.75 mW/MHz rated

IEEE 802.11n 40 MHz
- Operating frequency range: 5270-5310 MHz (2 channels)
- ITU designation: 35M8 D1D
- Maximum output power: 0.88 mW/MHz rated

IEEE 802.11a
- Operating frequency range: 5500-5700 MHz (11 channels)
- ITU designation: 17M5 D1D
- Maximum output power: 2.5 mW/MHz rated

IEEE 802.11n 20 MHz
- Operating frequency range: 5500-5700 MHz (11 channels)
- ITU designation: 18M0 D1D
- Modulation method(s): 2.5
- Maximum output power: 2.2 mW/MHz rated

IEEE 802.11n 40 MHz
- Operating frequency range: 5510-5670 MHz (5 channels)
- ITU designation: 35M8 D1D
- Maximum output power: 0.8 mW/MHz rated

IEEE 802.11a
- Operating frequency range: 4920-4980 MHz (4 channels)
- ITU designation: 16M6 D1D
- Maximum output power: 3.5 mW/MHz rated

IEEE 802.11n 20 MHz
- Operating frequency range: 4920-4980 MHz (4 channels)
- ITU designation: 17M7 D1D
- Maximum output power: 3.5 mW/MHz rated

IEEE 802.11n 40 MHz
- Operating frequency range: 4930-4970 MHz (2 channels)
- ITU designation: 35M8 D1D
- Maximum output power: 1.75 mW/MHz rated

IEEE 802.11a
- Operating frequency range: 5030-5091 MHz (3 channels)
- ITU designation: 16M5 D1D
- Maximum output power: 3.5 mW/MHz rated

IEEE 802.11n 20 MHz
- Operating frequency range: 5030-5091 MHz (3 channels)
- ITU designation: 17M7 D1D
- Maximum output power: 3.5 mW/MHz rated

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

- Product description: WiFi and Bluetooth Module
- Trademark: Texas Instrument
- Type designation: WL18MODGI