

# Certificate

of

Radio Equipment in JAPAN

No: 201-190472 / 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: 4G WIFI Router

Trademark: Maestro
Type designation: E228#1JL

Manufacturer: Guangzhou Telefield Ltd.

Address: No.1 Industry Area, Zhuliao Town, Baiyun Zone

City: Guangzhou, Guangdong

Country: China

This certificate is granted to:

Name: Maestro Wireless Solutions Limited

Address: FLAT A & B, 9/F, WING CHEONG FACTORY BUILDING, 121

KING LAM STREET, CHEUNG SHA WAN

City: Hong Kong Country: China

This certificate has THREE Annexes.

Zevenaar, 26 June 2019

**CAB** 

David Chen Product Assessor

Pasid Chen

PRODUCTS RVA C 224



- The validity of this Certificate is limited to products, which are equal to the one examined in the typeexamination
- 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:

#### LTE FDD Band 1:

RB restrictions for 15 MHz channel bandwidth with fc = 1932.5 MHz

The maximum length of continuous Resource Block used is 30 RBs with bandwidth 5.40 MHz in 1927.19MHz-1937.81 MHz

RB restrictions for 20 MHz channel bandwidth with fc = 1930 MHz

The maximum length of continuous Resource Block used is 24 RBs with bandwidth 4.32 MHz in 1925.32 MHz-1934.68 MHz

Antennas for IEEE 802.11b/g/n:

Dipole antenna, max gain of 3.8 dBi at 2.4 GHz

Antennas for LTE:

Dipole antenna, max gain of 2.5 dBi at LTE Bands



# Documentation lodged for this type-examination

# Test Reports:

- Sporton International (Kunshan) Inc.: JR720702A, 01 March 2017
- DSP RESEARCH, INC.: 751020044430, 05 November 2015

#### **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 4.4.5 article 49.6.9

Radio equipment specified in: Item 11-19, Paragraph 1, Article 2 Item 19, 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: 12M3 G1D
- Maximum output power: 5.0 mW/MHz rated

#### **IEEE 802.11g**

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 16M8 D1D,G1D
- Maximum output power: 4.0 mW/MHz rated

#### IEEE 802.11n 20 MHz

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 17M7 D1D,G1D
- Maximum output power: 4.0 mW/MHz rated

#### IEEE 802.11n 40 MHz

- Operating frequency range: 2422-2462 MHz (9 channels)
- ITU designation: 36M5 D1D,G1D
- Maximum output power: 2.0 mW/MHz rated

### LTE FDD Band 1

- Operating frequency range: 1927.2-1977.5 MHz (100kHz interval 504 channels)
- ITU designation: 5M00 D1A,D1B,D1C,D1D,D1E,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1E,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

#### LTE FDD Band 1

- Operating frequency range: 1934.7-1975.0 MHz (100kHz interval 404 channels)
- ITU designation: 10M0 D1A,D1B,D1C,D1D,D1E,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1E,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

#### LTE FDD Band 1

- Operating frequency range: 1942.2-1972.5 MHz (100kHz interval 304 channels)
- ITU designation: 15M0 D1A,D1B,D1C,D1D,D1E,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1E,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

# LTE FDD Band 1

- Operating frequency range: 1949.7-1970.0 MHz (100kHz interval 204 channels)
  ITU designation: 20M0 D1A,D1B,D1C,D1D,D1E,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1E,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

## LTE FDD Band 19

- Operating frequency range: 832.5-842.5 MHz (100kHz interval 101 channels)
- ITU designation: 5M00 D1A,D1B,D1C,D1D,D1E,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1E,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

#### LTE FDD Band 19

- Operating frequency range: 835.0-840.0 MHz (100kHz interval 51 channels)
- ITU designation: 10M0 D1A,D1B,D1C,D1D,D1E,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1E,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

## LTE FDD Band 19

- Operating frequency range: 837.5-837.5 MHz
- ITU designation: 15M0 D1A,D1B,D1C,D1D,D1E,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1E,G1F,G1X,G7W
- Maximum output power: 23 dBm rated



#### LTE FDD Band 21

- Operating frequency range: 1450.4-1460.4 MHz (100kHz interval 101 channels)
   ITU designation: 5M00 D1A,D1B,D1C,D1D,D1E,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1E,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

## LTE FDD Band 21

- Operating frequency range: 1452.9-1457.9 MHz (100kHz interval 51 channels)
- ITU designation: 10M0 D1A,D1B,D1C,D1D,D1E,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1E,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

#### LTE FDD Band 21

- Operating frequency range: 1455.4-1455.4 MHz
- ITU designation: 15M0 D1A,D1B,D1C,D1D,D1E,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1E,G1F,G1X,G7W
- Maximum output power: 23 dBm rated



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

- Product description: 4G WIFI Router

- Trademark: Maestro- Type designation: E228#1JL