

# Certificate

## Of

### Radio Equipment in JAPAN

No.: 10215369/AA/02

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: **2.4 GHz RF Module**  
Trademark: **Digi International**  
Family name: --  
Type designation: **Xbee S2C**  
Serial No: --  
Hard-|Software release No: **05 RevA|xb24-s2c\_4016**

Manufacturer: **Digi International**  
Address: **11001 Bren Road East**  
City: **MN 55343 Minnetonka**  
Country: **United States**

This certificate is granted to:

Name: **Digi International**  
Address: **11001 Bren Road East**  
City: **MN 55343 Minnetonka**  
Country: **United States**

This certificate has THREE Annexes.

Zevenaar, 17 April 2014

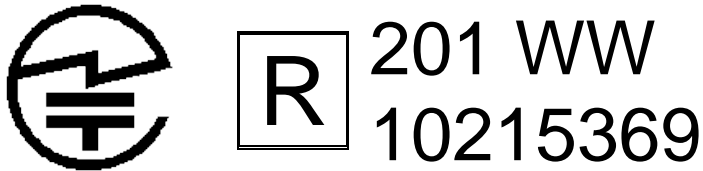
*i.o. W.J.M. Jong*

W.J.M. Jong  
Manager Product Certification

**CAB**



- 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:*

There are different versions, depending upon the selected antenna:

- an U.FL RF port on the PCB for an external antenna
- with an integral PCB antenna
- PIN 36 RF Port, a soldered cable and a chassis connector for an external antenna

Rated supply voltage 3.3 Vdc

Operational range: from 2.2 up to 3.6 Vdc

Electrical interface with host: USB

Antenna's overview:

(Gain specified at 2.4 GHz)

1. Internal PCB Antenna, max. gain -0.5 dBi
2. External Antenna Dipole Bec AN2400-37A19BX, max. gain 2.76 dBi
3. External Antenna Dipole Bec R-AN2400-5701RS-Z, max. gain 3.45 dBi
4. External Antenna Dipole Pulse W1030, max. gain 2.0 dBi
5. External Antenna Dipole Pulse W1049B050, max. gain 2.0 dBi
6. External Antenna Dipole NearsonS131AH-2450S (1/2 lambda dipole), max. gain 2.0 dBi
7. External Antenna Monopole Maxstream(whip, 1/4 lambda), max. gain 1.8 dBi
8. External Antenna Directional Buffalo WLE-HG-DA , max. gain 9.0 dBi

AA/01: addition of 3 antennae

MAP Antenna part number MEIWX 2411SAXX-2400 gain 2dBi

MAP mini magnetic mount antenna par number MEIAF 126XSA1X-2400-1.5D-2V gain 2dBi

MAP mini magnetic mount antenna par number MEIAF 126XSA2X-2400-1.5D-2V gain 2dBi

### **Documentation lodged for this type-examination**

*Test Reports:*

- MiCOM Labs: DIGI09-J1 Rev B, 18 December 2011

*Product Documentation:*

- Assembly drawings
- Bill of materials
- Block diagram
- Electric diagrams
- Antenna specifications
- Photos
- User 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) of article 2, paragraph 1

### **Technical features and characteristics**

*The product includes the following features and characteristics:*

**Zigbee:**

- Operating frequency range: 2405-2480 MHz (16 channels)
- Operating frequency band: 2400-2483.5 MHz
- Modulation method(s): DSSS: O-QPSK
- ITU designation: 2M65G1D
- Maximum output power: 4.8 mW/MHz rated
- Maximum antenna gain: 9 dBi

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

- Product description: 2.4 GHz RF Module
- Trademark: Digi International
- Type Designation: Xbee S2C
- Hardware version: 05 RevA
- Software version: xb24-s2c\_4016