

# Certificate

of

## Radio Equipment in JAPAN

No: 08215142/AA/01

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 Xbee PRO ZNet 2.5 RF Module**  
Trademark: **Xbee PRO ZNet 2.5**  
Family name: **--**  
Type designation: **XBEEPRO2**  
Serial No: **0013A20040527BC5**  
Hard- / Softw. release No: **REV A / V1002**

Manufacturer: **Digi International**  
Address: **355 South 520 West, Suite 180**  
City: **UT 84042 Lindon**  
Country: **United States**

This additional certificate is granted to:

Name: **Digi International**  
Address: **355 South 520 West, Suite 180**  
City: **UT 84042 Lindon**  
Country: **United States**

This additional certificate has THREE Annexes.

Zevenaar, 18 March 2009

**CAB**



M.H. Koop  
Manager Certification



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



**R** 201 WW  
08215142

#### Remarks and observations

*The following conditions are applicable:*

Supply voltage is defined between 3.0 Vdc and 3.6 Vdc

Antennas for 802.15.4 / Zigbee:

- bec AN2400-37A19BX, Dipole antenna, max. gain of 2.48 dBi at 2.4 GHz
- bec R-AN2400-5701RS-Z, Dipole antenna, max. gain of 3.45 dBi at 2.4 GHz
- Fractus FROS-S1-N-O-001, Chip antenna, max. gain of -1.5 dBi at 2.4 GHz
- MaxStream Whip antenna, 1/4 wave monopole, max. gain of 1.8 dBi at 2.4 GHz
- Nearson S131AX-2450S, 1/2 wave dipole, max. gain of 2.1 dBi at 2.4 GHz
- pulse W1030, Dipole antenna, max. gain of 2.0 dBi at 2.4 GHz
- pulse W1049B050, Dipole antenna, max. gain of 2.0 dBi at 2.4 GHz

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

*Test Reports:*

- MiCOM Labs: DIGI03-C1 Rev A, 14 March 2009

*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:*

802.15.4 / Zigbee:

- Operating frequency range: 2410-2470 MHz (13 channels)
- Operating frequency band: 2400-2483.5 MHz
- ITU designation: 2M55G1D
- Maximum output power: 6.81 mW/MHz average (rated)
- Maximum antenna gain: 3.45 dBi
- Modulation method(s): O-QPSK

*Annex 3 to additional Certificate of Radio Equipment in Japan*  
*Number: 08215142/AA/01*

18 March 2009  
*Annex 3, Page 1 of 1*

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

Product description: 2.4 GHz Xbee PRO ZNet 2.5 RF Module  
Type designation: XBEEPRO2  
Trademark: Xbee PRO ZNet 2.5  
Serial No: 0013A20040527BC5  
Hard- / Softw. release No: REV A / V1002