telefication by The Netherlands Chamber of Commerce 09076358 www.telefication.com



Certificate of **Radio Equipment in JAPAN**

No.: 10215162/AA/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: mini-PCI 802.11abgn 2x2 module Trademark: Summit Data Communications

Family name: -Type designation: **SDC-PE15N**

Serial No: -

Hard- / Softw. release No: 200-116575-0000G D / SCU: V2.03.47 SRU: V2.03.47

Manufacturer: Gemtek Technology Co., Ltd.

Address: No. 1, Jen Ai Road, Hsinchu Industrial Park

City: 303 Hukou, Hsinchu Country: Taiwan R.O.C.

This certificate is granted to:

Name: Summit Data Communications, Inc. Address: 526 South Main Street Suite 805

City: OH 44139 Akron
Country: United States

This certificate has THREE Annexes.

Zevenaar, 16 June 2010

CAB

W.J.M. Jong **Operations Manager** Certification

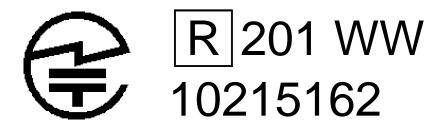




Annex 1 to Certificate of Radio Equipment in Japan Number: 10215162/AA/00

16 June 2010 Annex 1, Page 1 of 1

- 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:

Express (PCIe) MiniCard with 52 pin edge connector. MIMO function for n-mode with 2TX/RX.

Antennas for IEEE 802.11b/g/n:

- CISCO AIR-ANT4941, Dipole antenna, max. gain of 2.0 dBi at 2.4 GHz
- Huber+Suhner SOA 2459/360/5/0/V_C, Dipole antenna, max. gain of 3.0 dBi at 2.4 GHz
- Larsen R380.500.314, Dipole antenna, max. gain of 1.6 dBi at 2.4 GHz
- Summit SDC-CF22G, Omni antenna, max. gain of 0 dBi at 2.4 GHz



Annex 2 to Certificate of Radio Equipment in Japan Number: 10215162/AA/00 16 June 2010 Annex 2, Page 1 of 2

Documentation lodged for this type-examination

Test Reports:

- Elliott Laboratories, LLC: R79187 Rev. 2, 09 June 2010

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



Annex 2 to Certificate of Radio Equipment in Japan Number: 10215162/AA/00

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Technical features and characteristics

The product includes the following features and characteristics:

IEEE 802.11b:

- Operating frequency range: 2412-2472 MHz (13 channels)
- Operating frequency band: 2400-2483.5 MHz
- ITU designation: 13M4G1D
- Maximum output power: 3.46 mW/MHz rated
- Maximum antenna gain: 3.0 dBi
- Modulation method(s): DSSS: DBPSK, DQPSK, CCK

IEEE 802.11g:

- Operating frequency range: 2412-2472 MHz (13 channels)
- Operating frequency band: 2400-2483.5 MHz
- ITU designation: 16M9D1D
- Maximum output power: 1.74 mW/MHz rated
- Maximum antenna gain: 3.0 dBi
- Modulation method(s): OFDM: BPSK, QPSK, 16QAM, 64QAM

IEEE 802.11n (20 MHz):

- Operating frequency range: 2412-2472 MHz (13 channels)
- Operating frequency band: 2400-2483.5 MHz
- ITU designation: 18M0D1D
- Maximum output power: 0.85 mW/MHz rated
- Maximum antenna gain: 3.0 dBi
- Modulation method(s): OFDM: BPSK, QPSK, 16QAM, 64QAM

IEEE 802.11n (40 MHz):

- Operating frequency range: 2422-2462 MHz (9 channels)
- Operating frequency band: 2400-2483.5 MHz
- ITU designation: 36M6D1D
- Maximum output power: 0.56 mW/MHz rated
- Maximum antenna gain: 3.0 dBi
- Modulation method(s): OFDM: BPSK, QPSK, 16QAM, 64QAM



16 June 2010

Annex 3 to Certificate of Radio Equipment in Japan

Number: 10215162/AA/00 Annex 3, Page 1 of 1

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

Product description: mini-PCI 802.11abgn 2x2 module

Type designation: SDC-PE15N

Trademark: Summit Data Communications

Serial No: --

Hard- / Softw. release No: 200-116575-0000G D / SCU: V2.03.47 SRU: V2.03.47