

# Certificate

of  
Radio Equipment in JAPAN

No: 201-180233 / 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: **802.11ac Wave 2 Dual-Radio Unified Access Point**

Trademark: **ZYXEL**

Type designation: **NWA5123-AC HD**

Hardware / Software version: **V1.00 / V5.10(ABIM.1)**

Variants: **See Annex 3**

Manufacturer: **Zyxel Communications Corporation**

Address: **No. 2, Industry East Road IX, Science Park**

City: **Hsinchu**

Country: **Taiwan**

This certificate is granted to:

Name: **Zyxel Communications Corporation**

Address: **No. 2, Industry East Road IX, Science Park**

City: **Hsinchu**

Country: **Taiwan**

This certificate has **THREE** Annexes.

Zevenaar, 14 June 2018

**CAB**



David Chen  
Product Assessor





- 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** 201-180233

#### Remarks and observations

The following conditions are applicable:

DFS operation: Master

MIMO: 2T/2R in 2.4GHz and 3T/3R in 5GHz

Antennas for IEEE 802.11a/b/g/n/ac:

PIFA antenna, max gain of 3 dBi at 2.4 GHz

Monopole antenna, max gain of 4 dBi at 5 GHz



## Documentation lodged for this type-examination

### Test Reports:

- International Certification Corp.: JR762202-06AC, 13 June 2018
- International Certification Corp.: JR762202-06AN, 13 June 2018
- International Certification Corp.: JZ762202-06, 13 June 2018

### Product Documentation:

- Assembly drawings
- Bill of materials
- Block diagram
- Electrical diagrams
- Antenna specifications
- Internal photos
- External photos
- 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

Item (19)-3 of article 2, paragraph 1

Item (19)-3-2 of article 2, paragraph 1



## 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: 18M0 G1D
- Maximum output power: 8.00 mW/MHz rated

### IEEE 802.11g

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 16M9 D1D,G1D
- Maximum output power: 8.00 mW/MHz rated

### IEEE 802.11n 20 MHz

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: 18M1 D1D,G1D
- Maximum output power: 8.00 mW/MHz rated

### IEEE 802.11n 40 MHz

- Operating frequency range: 2422-2462 MHz (9 channels)
- ITU designation: 37M0 D1D,G1D
- Maximum output power: 4.00 mW/MHz rated

### IEEE 802.11a

- Operating frequency range: 5180-5240 MHz (4 channels)
- ITU designation: 17M0 D1D,G1D
- Maximum output power: 3.85 mW/MHz rated

### IEEE 802.11n 20 MHz

- Operating frequency range: 5180-5240 MHz (4 channels)
- ITU designation: 18M1 D1D,G1D
- Maximum output power: 3.85 mW/MHz rated

### IEEE 802.11n 40 MHz

- Operating frequency range: 5190-5230 MHz (2 channels)
- ITU designation: 36M7 D1D,G1D
- Maximum output power: 1.85 mW/MHz rated

### IEEE 802.11ac (VHT20)

- Operating frequency range: 5180-5240 MHz (4 channels)
- ITU designation: 18M1 D1D,G1D
- Maximum output power: 3.85 mW/MHz rated

### IEEE 802.11ac (VHT40)

- Operating frequency range: 5190-5230 MHz (2 channels)
- ITU designation: 36M7 D1D,G1D
- Maximum output power: 1.95 mW/MHz rated

### IEEE 802.11ac (VHT80)

- Operating frequency range: 5210 MHz
- ITU designation: 75M0 D1D,G1D
- Maximum output power: 0.95 mW/MHz rated

### IEEE 802.11a

- Operating frequency range: 5260-5320 MHz (4 channels)
- ITU designation: 17M0 D1D,G1D
- Maximum output power: 3.85 mW/MHz rated



**IEEE 802.11n 20 MHz**

- Operating frequency range: 5260-5320 MHz (4 channels)
- ITU designation: 18M1 D1D,G1D
- Maximum output power: 3.85 mW/MHz rated

**IEEE 802.11n 40 MHz**

- Operating frequency range: 5270-5310 MHz (2 channels)
- ITU designation: 36M7 D1D,G1D
- Maximum output power: 1.85 mW/MHz rated

**IEEE 802.11ac (VHT20)**

- Operating frequency range: 5260-5320 MHz (4 channels)
- ITU designation: 18M1 D1D,G1D
- Maximum output power: 3.85 mW/MHz rated

**IEEE 802.11ac (VHT40)**

- Operating frequency range: 5270-5310 MHz (2 channels)
- ITU designation: 36M7 D1D,G1D
- Maximum output power: 1.95 mW/MHz rated

**IEEE 802.11ac (VHT80)**

- Operating frequency range: 5290 MHz
- ITU designation: 76M0 D1D,G1D
- Maximum output power: 0.95 mW/MHz rated

**IEEE 802.11a**

- Operating frequency range: 5500-5700 MHz (11 channels)
- ITU designation: 17M0 D1D,G1D
- Maximum output power: 9.50 mW/MHz rated

**IEEE 802.11n 20 MHz**

- Operating frequency range: 5500-5700 MHz (11 channels)
- ITU designation: 18M1 D1D,G1D
- Maximum output power: 9.50 mW/MHz rated

**IEEE 802.11n 40 MHz**

- Operating frequency range: 5510-5670 MHz (5 channels)
- ITU designation: 36M7 D1D,G1D
- Maximum output power: 5.0 mW/MHz rated

**IEEE 802.11ac (VHT20)**

- Operating frequency range: 5500-5700 MHz (11 channels)
- ITU designation: 18M1 D1D,G1D
- Maximum output power: 10.00 mW/MHz rated

**IEEE 802.11ac (VHT40)**

- Operating frequency range: 5510-5670 MHz (5 channels)
- ITU designation: 36M7 D1D,G1D
- Maximum output power: 5.0 mW/MHz rated

**IEEE 802.11ac (VHT80)**

- Operating frequency range: 5530-5610 MHz (2 channels)
- ITU designation: 76M0 D1D,G1D
- Maximum output power: 2.50 mW/MHz rated



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

- Product description: 802.11ac Wave 2 Dual-Radio Unified Access Point  
- Trademark: ZYXEL  
- Type designation: NWA5123-AC HD  
- Hardware version: V1.00  
- Software version: V5.10(ABIM.1)

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