



Certificate of Radio Equipment in JAPAN 201-240091 / 00

Issued 29 March 2024
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This certificate has THREE Annexes

Kiwa Nederland B.V., operating as Japan Conformity Assessment Body (CAB ID Number: 201), according procedure RD_740, declares that the listed product complies with the Technical Regulations Conformity Certification of Specified Radio equipment (ordinance of MPT N° 37,1981)

Product description:	Tablet
Trademark:	Pepperl+Fuchs
Type designation:	Pad-Ex 01 P12 DZ2
Variants:	See Annex 3
Manufacturer:	Pepperl+Fuchs SE
Address:	Lilienthalstraße 200
City:	68307 Mannheim
Country:	Deutschland

This certificate is granted to:

Name:	Pepperl+Fuchs SE
Address:	Lilienthalstraße 200
City:	68307 Mannheim
Country:	Deutschland

Ron Scheepers
Managing director



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[https://www.kiwa.com/nl/en/markets/
radio-wireless-and-electrical-
equipment/](https://www.kiwa.com/nl/en/markets/radio-wireless-and-electrical-equipment/)

Chamber of commerce
08090048

- 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:

WWAN: EM7565 , WLAN: AX211NGW

Max SAR values: 1.848 W/kg (10g) (Body-worn at 0mm distance), 1.922 W/kg (10g) (Simultaneous Transmission)
WiFi 6E Highest Power Density: 8.20 W/m²

WLAN:

Antennas for IEEE 802.11a/b/g/n/ac/ax & Bluetooth:

PIFA antennas, max gain of 2.25 dBi at 2.4 GHz and max gain of 2.49 dBi at 5GHz/6GHz

WWAN:

Antennas for WCDMA/LTE:

PIFA antennas, max gain of 2.73 dBi

Documentation lodged for this type-examination

Test Reports:

- Intel Corporation S.A.S - WRF Lab: 201120-03.TR24, 21 July 2021
- Intel Corporation S.A.S - WRF Lab: 201120-03.TR25, 21 July 2021
- Intel Corporation S.A.S - WRF Lab: 201120-03.TR26, 21 July 2021
- Intel Corporation S.A.S - WRF Lab: 201120-03.TR27, 21 July 2021
- Intel Corporation S.A.S - WRF Lab: 201120-03.TR28, 21 July 2021
- Intel Corporation S.A.S - WRF Lab: 201120-03.TR29, 21 July 2021
- Intel Corporation S.A.S - WRF Lab: 201120-03.TR30, 21 July 2021
- Intel Corporation S.A.S - WRF Lab: 201120-03.TR31, 21 July 2021
- Intel Corporation S.A.S - WRF Lab: 201120-03.TR32, 21 July 2021
- Intel Corporation S.A.S - WRF Lab: 201120-03.TR33, 21 July 2021
- Intel Corporation S.A.S - WRF Lab: 201120-03.TR34, 21 July 2021
- Intel Corporation S.A.S - WRF Lab: 201120-03.TR37, 21 July 2021
- Intel Corporation S.A.S - WRF Lab: 220907-01.TR01, 29 September 2022
- Intel Corporation S.A.S - WRF Lab: 220907-01.TR02, 29 September 2022
- Intel Corporation S.A.S - WRF Lab: 220907-01.TR03, 29 September 2022
- Intel Corporation S.A.S - WRF Lab: 220907-01.TR04, 29 September 2022
- Intel Corporation S.A.S - WRF Lab: 220907-01.TR05, 29 September 2022
- Intel Corporation S.A.S - WRF Lab: 220907-01.TR06, 29 September 2022
- BTL Inc.: 27-02-2024, 27 February 2024

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 4.27 article 49.29

Chapter IV, section 4.3.3 article 49.6.4

Chapter IV, section 4.3.4 article 49.6.5

Chapter IV, section 4.4.5 article 49.6.10

Chapter IV, section 4.4.5 article 49.6.9

Radio equipment specified in:

Item 11-19, Paragraph 1, Article 2

Item 11-21, Paragraph 1, Article 2

Item 11-3, Paragraph 1, Article 2
Item 11-7, Paragraph 1, Article 2
Item 19, Paragraph 1, Article 2
Item 19-3, Paragraph 1, Article 2
Item 54, Paragraph 1, Article 2
Item 79, Paragraph 1, Article 2
Item 80, Paragraph 1, Article 2

Technical features and characteristics

The product includes the following features and characteristics:

Bluetooth (incl. AFH)

- Operating frequency range: 2441-2441 MHz
- ITU designation: F1D,G1D
- Maximum output power: 0.70 mW/MHz rated

Bluetooth LE_1M

- Operating frequency range: 2402-2480 MHz (40 channels)
- ITU designation: F1D
- Maximum output power: 7.76 mW rated

Bluetooth LE_2M

- Operating frequency range: 2402-2480 MHz (40 channels)
- ITU designation: F1D
- Maximum output power: 7.76 mW rated

IEEE 802.11b

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: G1D
- Maximum output power: 7.76 mW/MHz rated

IEEE 802.11g

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: D1D,G1D
- Maximum output power: 7.60 mW/MHz rated

IEEE 802.11n 20 MHz

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: D1D,G1D
- Maximum output power: 7.00 mW/MHz rated

IEEE 802.11n 40 MHz

- Operating frequency range: 2422-2462 MHz (9 channels)
- ITU designation: D1D,G1D
- Maximum output power: 3.50 mW/MHz rated

IEEE 802.11ax (HEW20)

- Operating frequency range: 2412-2472 MHz (13 channels)
- ITU designation: D1D,G1D
- Maximum output power: 7.00 mW/MHz rated

IEEE 802.11ax (HEW40)

- Operating frequency range: 2422-2462 MHz (9 channels)
- ITU designation: D1D,G1D
- Maximum output power: 3.00 mW/MHz rated

IEEE 802.11a

- Operating frequency range: 5180-5240 MHz (4 channels)
- ITU designation: D1D,G1D
- Maximum output power: 4.15 mW/MHz rated

IEEE 802.11n/ac (VHT20)

- Operating frequency range: 5180-5240 MHz (4 channels)
- ITU designation: D1D,G1D
- Maximum output power: 4.15 mW/MHz rated

IEEE 802.11n/ac (VHT40)

- Operating frequency range: 5190-5230 MHz (2 channels)
- ITU designation: D1D,G1D
- Maximum output power: 2.00 mW/MHz rated

IEEE 802.11ac (VHT80)

- Operating frequency range: 5210-5210 MHz
- ITU designation: D1D,G1D
- Maximum output power: 1.05 mW/MHz rated

IEEE 802.11ac (VHT160)

- Operating frequency range: 5250-5250 MHz
- ITU designation: D1D,G1D
- Maximum output power: 0.52 mW/MHz rated

IEEE 802.11a

- Operating frequency range: 5260-5320 MHz (4 channels)
- ITU designation: D1D,G1D
- Maximum output power: 4.15 mW/MHz rated

IEEE 802.11n/ac (VHT20)

- Operating frequency range: 5260-5320 MHz (4 channels)
- ITU designation: D1D,G1D
- Maximum output power: 4.15 mW/MHz rated

IEEE 802.11n/ac (VHT40)

- Operating frequency range: 5270-5310 MHz (2 channels)
- ITU designation: D1D,G1D
- Maximum output power: 2.00 mW/MHz rated

IEEE 802.11ac (VHT80)

- Operating frequency range: 5290-5290 MHz
- ITU designation: D1D,G1D
- Maximum output power: 1.05 mW/MHz rated

IEEE 802.11a

- Operating frequency range: 5500-5720 MHz (12 channels)
- ITU designation: D1D,G1D
- Maximum output power: 10.00 mW/MHz rated

IEEE 802.11n/ac (VHT20)

- Operating frequency range: 5500-5720 MHz (12 channels)
- ITU designation: D1D,G1D
- Maximum output power: 10.00 mW/MHz rated

IEEE 802.11n/ac (VHT40)

- Operating frequency range: 5510-5710 MHz (6 channels)
- ITU designation: D1D,G1D
- Maximum output power: 5.00 mW/MHz rated

IEEE 802.11ac (VHT80)

- Operating frequency range: 5530-5690 MHz (3 channels)
- ITU designation: D1D,G1D
- Maximum output power: 2.50 mW/MHz rated

IEEE 802.11ac (VHT160)

- Operating frequency range: 5570-5570 MHz
- ITU designation: D1D,G1D
- Maximum output power: 1.25 mW/MHz rated

IEEE 802.11ax (HEW20)

- Operating frequency range: 5180-5240 MHz (4 channels)
- ITU designation: D1D,G1D
- Maximum output power: 4.00 mW/MHz rated

IEEE 802.11ax (HEW40)

- Operating frequency range: 5190-5230 MHz (2 channels)
- ITU designation: D1D,G1D
- Maximum output power: 2.00 mW/MHz rated

IEEE 802.11ax (HEW80)

- Operating frequency range: 5210-5210 MHz
- ITU designation: D1D,G1D
- Maximum output power: 1.05 mW/MHz rated

IEEE 802.11ax (HEW20)

- Operating frequency range: 5260-5320 MHz (4 channels)
- ITU designation: D1D,G1D
- Maximum output power: 4.00 mW/MHz rated

IEEE 802.11ax (HEW40)

- Operating frequency range: 5270-5310 MHz (2 channels)
- ITU designation: D1D,G1D
- Maximum output power: 2.00 mW/MHz rated

IEEE 802.11ax (HEW80)

- Operating frequency range: 5290-5290 MHz
- ITU designation: D1D,G1D
- Maximum output power: 1.05 mW/MHz rated

IEEE 802.11ax (HEW160)

- Operating frequency range: 5250-5250 MHz
- ITU designation: D1D,G1D
- Maximum output power: 0.52 mW/MHz rated

IEEE 802.11ax (HEW20)

- Operating frequency range: 5500-5720 MHz (12 channels)
- ITU designation: D1D,G1D
- Maximum output power: 9.25 mW/MHz rated

IEEE 802.11ax (HEW40)

- Operating frequency range: 5510-5710 MHz (6 channels)
- ITU designation: D1D,G1D
- Maximum output power: 5.00 mW/MHz rated

IEEE 802.11ax (HEW80)

- Operating frequency range: 5530-5690 MHz (3 channels)
- ITU designation: D1D,G1D
- Maximum output power: 2.50 mW/MHz rated

IEEE 802.11ax (HEW160)

- Operating frequency range: 5570-5570 MHz
- ITU designation: D1D,G1D
- Maximum output power: 1.25 mW/MHz rated

IEEE 802.11a

- Operating frequency range: 5955-6415 MHz (24 channels)
- ITU designation: D1D,G1D
- Maximum output power: 0.39 mW/MHz rated

IEEE 802.11ax (HEW20)

- Operating frequency range: 5955-6415 MHz (24 channels)
- ITU designation: D1D,G1D
- Maximum output power: 0.38 mW/MHz rated

IEEE 802.11ax (HEW40)

- Operating frequency range: 5965-6405 MHz (12 channels)
- ITU designation: D1D,G1D
- Maximum output power: 0.19 mW/MHz rated

IEEE 802.11ax (HEW80)

- Operating frequency range: 5985-6385 MHz (6 channels)
- ITU designation: D1D,G1D
- Maximum output power: 0.09 mW/MHz rated

IEEE 802.11ax (HEW160)

- Operating frequency range: 6025-6345 MHz (3 channels)
- ITU designation: D1D,G1D
- Maximum output power: 0.045 mW/MHz rated

IEEE 802.11a

- Operating frequency range: 5955-6415 MHz (24 channels)
- ITU designation: D1D,G1D
- Maximum output power: 3.16 mW/MHz rated

IEEE 802.11ax (HEW20)

- Operating frequency range: 5955-6415 MHz (24 channels)
- ITU designation: D1D,G1D
- Maximum output power: 3.16 mW/MHz rated

IEEE 802.11ax (HEW40)

- Operating frequency range: 5965-6405 MHz (12 channels)
- ITU designation: D1D,G1D
- Maximum output power: 1.58 mW/MHz rated

IEEE 802.11ax (HEW80)

- Operating frequency range: 5985-6385 MHz (6 channels)
- ITU designation: D1D,G1D
- Maximum output power: 0.79 mW/MHz rated

IEEE 802.11ax (HEW160)

- Operating frequency range: 6025-6345 MHz (3 channels)
- ITU designation: D1D,G1D
- Maximum output power: 0.39 mW/MHz rated

WCDMA Band I

- Operating frequency range: 1922.6-1977.4 MHz (200kHz interval 275 channels)
- ITU designation: 5M00 G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 24 dBm rated

HSUPA Band I

- Operating frequency range: 1922.6-1977.4 MHz (200kHz interval 275 channels)
- ITU designation: 5M00 G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 24 dBm rated

WCDMA Band III

- Operating frequency range: 1747.4-1782.4 MHz (200kHz interval 176 channels)
- ITU designation: 5M00 G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 24 dBm rated

HSUPA Band III

- Operating frequency range: 1747.4-1782.4 MHz (200kHz interval 176 channels)
- ITU designation: 5M00 G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 24 dBm rated

WCDMA Band VIII

- Operating frequency range: 902.6-912.4 MHz (200kHz interval 50 channels)
- ITU designation: 5M00 G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 24 dBm rated

HSUPA Band VIII

- Operating frequency range: 902.6-912.4 MHz (200kHz interval 50 channels)
- ITU designation: 5M00 G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 24 dBm rated

WCDMA Band XIX

- Operating frequency range: 832.4-842.6 MHz (200kHz interval 52 channels), 832.5-832.5MHz, 837.5-837.5MHz, 842.5-842.5MHz
- ITU designation: 5M00 G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 24 dBm rated

HSUPA Band XIX

- Operating frequency range: 832.4-842.6 MHz (200kHz interval 52 channels), 832.5-832.5MHz, 837.5-837.5MHz, 842.5-842.5MHz
- ITU designation: 5M00 G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 24 dBm rated

LTE FDD Band 1

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

LTE FDD Band 1

- Operating frequency range: 1932.5-1932.5 MHz [A-MPR]
- ITU designation: 15M0 D1A,D1B,D1C,D1D,D1F,D1X,D7W,G1A,G1B,G1C,G1D,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,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

LTE FDD Band 1

- Operating frequency range: 1930.0-1930.0 MHz [A-MPR]
- ITU designation: 20M0 D1A,D1B,D1C,D1D,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

LTE FDD Band 3

- Operating frequency range: 1712.5-1782.5 MHz (100kHz interval 701 channels)
- ITU designation: 5M00 D1A,D1B,D1C,D1D,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

LTE FDD Band 3

- Operating frequency range: 1715.0-1780.0 MHz (100kHz interval 651 channels)
- ITU designation: 10M0 D1A,D1B,D1C,D1D,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

LTE FDD Band 3

- Operating frequency range: 1717.5-1777.5 MHz (100kHz interval 601 channels)
- ITU designation: 15M0 D1A,D1B,D1C,D1D,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

LTE FDD Band 3

- Operating frequency range: 1720.0-1775.0 MHz (100kHz interval 551 channels)
- ITU designation: 20M0 D1A,D1B,D1C,D1D,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

LTE FDD Band 8

- Operating frequency range: 902.5-912.5 MHz (100kHz interval 101 channels)
- ITU designation: 5M00 D1A,D1B,D1C,D1D,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

LTE FDD Band 8

- Operating frequency range: 910.0-910.0 MHz (The maximum length of continuous Resource Block used is 32 RBs with bandwidth 5.76 MHz in 906.22 MHz-914.5 MHz)
- ITU designation: 10M0 D1A,D1B,D1C,D1D,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

LTE FDD Band 26

- Operating frequency range: 817.5-842.5 MHz (100kHz interval 251 channels)
- ITU designation: 5M00 D1A,D1B,D1C,D1D,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

LTE FDD Band 26

- Operating frequency range: 820.0-840.0 MHz (100kHz interval 201 channels)
- ITU designation: 10M0 D1A,D1B,D1C,D1D,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

LTE FDD Band 26

- Operating frequency range: 822.5-837.5 MHz (100kHz interval 151 channels)
- ITU designation: 15M0 D1A,D1B,D1C,D1D,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

LTE FDD Band 28

- Operating frequency range: 720.5-745.5 MHz (100kHz interval 251 channels)
- ITU designation: 5M00 D1A,D1B,D1C,D1D,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

LTE FDD Band 28

- Operating frequency range: 723.0-743.0 MHz (100kHz interval 201 channels)
- ITU designation: 10M0 D1A,D1B,D1C,D1D,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

LTE FDD Band 28

- Operating frequency range: 725.5-740.5 MHz (100kHz interval 151 channels)
- ITU designation: 15M0 D1A,D1B,D1C,D1D,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

LTE FDD Band 28

- Operating frequency range: 728.0-738.0 MHz (100kHz interval 101 channels)
- ITU designation: 20M0 D1A,D1B,D1C,D1D,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

LTE TDD Band 41

- Operating frequency range: 2547.5-2652.5 MHz (100kHz interval 1051 channels)
- ITU designation: 5M00 X1A,X1B,X1C,X1D,X1F,X1X,X7W
- Maximum output power: 23 dBm rated

LTE TDD Band 41

- Operating frequency range: 2550.0-2650.0 MHz (100kHz interval 1001 channels)
- ITU designation: 10M0 X1A,X1B,X1C,X1D,X1F,X1X,X7W
- Maximum output power: 23 dBm rated

LTE TDD Band 41

- Operating frequency range: 2555.0-2645.0 MHz (100kHz interval 901 channels)
- ITU designation: 20M0 X1A,X1B,X1C,X1D,X1F,X1X,X7W
- Maximum output power: 23 dBm rated

LTE TDD Band 41

- Operating frequency range: 2610.25-2610.25 MHz
- ITU designation: 29M9 X1A,X1B,X1C,X1D,X1F,X1X,X7W
- Maximum output power: 23 dBm rated

LTE TDD Band 41

- Operating frequency range: 2625.10-2625.10 MHz
- ITU designation: 39M8 X1A,X1B,X1C,X1D,X1F,X1X,X7W
- Maximum output power: 23 dBm rated

LTE TDD Band 42

- Operating frequency range: 3402.5-3597.5 MHz (100kHz interval 1951 channels)
- ITU designation: 5M00 D1A,D1B,D1C,D1D,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

LTE TDD Band 42

- Operating frequency range: 3405.0-3595.0 MHz (100kHz interval 1901 channels)
- ITU designation: 10M0 D1A,D1B,D1C,D1D,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

LTE TDD Band 42

- Operating frequency range: 3407.5-3592.5 MHz (100kHz interval 1851 channels)
- ITU designation: 15M0 D1A,D1B,D1C,D1D,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

LTE TDD Band 42

- Operating frequency range: 3410.0-3590.0 MHz (100kHz interval 1801 channels)
- ITU designation: 20M0 D1A,D1B,D1C,D1D,D1F,D1X,D7W,G1A,G1B,G1C,G1D,G1F,G1X,G7W
- Maximum output power: 23 dBm rated

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

- Product description:	Tablet
- Trademark:	Pepperl+Fuchs
- Type designation:	Pad-Ex 01 P12 DZ2

- Product description:	Tablet
- Trademark:	Pepperl+Fuchs
- Type designation:	Pad-Ex 01 P12 D2