CERTIFICATE

Number: 232340134/AA/00

Issue Date: 23 July 2024

Expiration Date: -

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UKCA TYPE EXAMINATION CERTIFICATE (Module B)

In compliance with the procedure specified in M009, Kiwa Ltd. declares as approved body for UKCA 0558 for the Radio Equipment Regulations 2017, that the stated product, complies with the essential requirements, in accordance with part 2 (chapter 1) of Radio Equipment Regulations, as indicated under Annex 1 of this certificate, based on the applicable Technical Standards and Specifications as listed under Annex 2 of this Certificate.

Product description:	**Radar H2M IS**
Trademark:	**BlackBerry**
Type designation:	**ITH100-1**

This certificate is granted to manufacturer:

Name:	**BlackBerry Limited**
Address:	**2200 University Avenue East Waterloo,**
City:	**N2K 0A7, Ontario, Waterloo,**
Country:	**Canada**

This certificate remains valid as long as the stated product stays in compliance with the essential requirements of the Radio Equipment Regulations 2017.

This certificate has THREE Annexes.

Signed on behalf of Kiwa Ltd.
(UK Approved Body Number 0558)

Willem Jan Jong
Manager Product Certification

UKCA

UKAS PRODUCT CERTIFICATION
0217

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Chamber of commerce
3473056

Annex 1 to certificate 232340134/AA/00

General Conditions

For each product to which this type examination relates, it has complied to the essential requirements as follows:

Article 6.1

Radio equipment shall be constructed so as to ensure:

C	(a)	the protection of health and safety of persons and of domestic animals and the protection of property, including the objectives with respect to safety requirements set out in the Electrical Equipment (Safety) Regulations 2016,
C	(b)	an adequate level of electromagnetic compatibility as set out in the Electromagnetic Compatibility Regulations 2016.

Article 6.2

C	Radio equipment must be constructed so that it both effectively uses and supports the efficient use of radio spectrum in order to avoid harmful interference.

Legend

C	=	Conform
NC	=	Not Conform
NA	=	Not applicable (for this equipment)
NP	=	Not performed (in this statement)

Annex 1 to certificate 232340134/AA/00

- This UKCA-type examination certificate is limited to the Radio Equipment Regulations.
- This UKCA-type examination certificate is part of the Conformity Assessment procedure Modules B and C, as described in annex III of the Radio Equipment Regulations.
- The validity of this UKCA type examination certificate is limited to products, which are equal to the one(s) assessed for this type Examination.
- The manufacturer has to draw up and issue a self Declaration of Conformity, declaring that the product(s) described in this UKCA-type examination certificate, are in compliance with Radio Equipment Regulations 2017 and any other applicable harmonization legislation.
- Each product shall be identified by means of type, batch and/or serial numbers and the name of the manufacturer and/or importer.
- If the equipment is to be modified, Kiwa Ltd. shall be notified immediately. Depending on the modifications, Kiwa Ltd. may have additional examinations carried out in consultation with the applicant.
- Enforcement of a new amending regulation voids the validity of this UKCA-type examination certificate.
- In case any referenced standard in this UKCA-type examination certificate is withdrawn or superseded and the presumption of conformity with the essential requirements has ceased, investigation by Kiwa Ltd. is needed to determine the validity of this type examination.

Remarks and observations

The following conditions are applicable:

None.

Annex 2 to certificate 232340134/AA/00

Documentation lodged for this type examination

Test Reports:

- Bureau Veritas CPS (H.K.) Limited, Taoyuan Branch: REBFKV-WTW-P23050559, 21 July 2023
- Bureau Veritas CPS (H.K.) Limited, Taoyuan Branch: REBFKV-WTW-P23050559-1, 21 July 2023
- Bureau Veritas CPS (H.K.) Limited, Taoyuan Branch: REBFKV-WTW-P23050559-2, 19 July 2024
- Bureau Veritas CPS (H.K.) Limited, Taoyuan Branch: REBFKV-WTW-P23050559-3, 21 July 2023
- Bureau Veritas CPS (H.K.) Limited, Taoyuan Branch: REBFKV-WTW-P23050559, 26 July 2023
- Bureau Veritas CPS (H.K.) Limited, Taoyuan Branch: MEBFKV-WTW-P23050559, 21 July 2023
- Bureau Veritas CPS (H.K.) Limited, Taoyuan Branch: LDBFKV-WTW-P23050559, 24 June 2024
- Eurofins TA Technology (Shanghai) Co., Ltd.: R2006A0435-R1V1, 18 July 2023

Product Documentation:

- Assembly drawings
- Bill of materials
- Block diagram
- Electrical diagrams
- Internal photos
- External photos
- Manual
- Label and label placement
- Risk assessment
- Packaging information

Technical Standards and Specifications

The product is compliant with:

EN 303 413	April, 2021	V1.2.1
EN 300 220-1	February, 2017	V3.1.1
EN 300 220-2	February, 2017	V3.1.1
EN 300 440	March, 2017	V2.1.1
EN 301 489-1	November, 2019	V2.2.3
EN 301 489-19	September, 2022	V2.2.1
EN 301 489-3	January, 2023	V2.3.2
EN 301 489-52	November, 2021	V1.2.1
EN 301 908-1	January, 2023	V15.2.1
EN 301 908-13	February, 2022	V13.2.1
EN 62311	January, 2008	
EN IEC 62368-1:2020+A11:2020	March, 2020	

Technical features and characteristics

The product includes the following features and characteristics:

GPS receiver
- Operating frequency range: 1559-1610 MHz

GLONASS receiver
- Operating frequency range: 1559-1610 MHz

Zigbee
- Operating frequency range: 2405-2480 MHz (16 channels)
- Maximum output power: 9.82 dBm EIRP average (calculated)
- Maximum antenna gain: 4.63 dBi

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- Operating frequency range: 869.85 MHz (1 Channel)
- Maximum output power: 6.89 dBm EIRP average (calculated)
- Maximum antenna gain: 1.54 dBi

LTE FDD Band 1
- Operating frequency range: 1920-1980, 2110-2170 MHz
- Maximum output power: 23 dBm rated

LTE FDD Band 3
- Operating frequency range: 1710-1785, 1805-1880 MHz
- Maximum output power: 23 dBm rated

LTE FDD Band 8
- Operating frequency range: 880-915, 925-960 MHz
- Maximum output power: 23 dBm rated

LTE FDD Band 20
- Operating frequency range: 832-862, 791-821 MHz
- Maximum output power: 23 dBm rated

LTE FDD Band 28
- Operating frequency range: 703-748, 758-803 MHz
- Maximum output power: 23 dBm rated

Annex 3 to certificate 232340134/AA/00

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

- Product description: Radar H2M IS
- Trademark: BlackBerry
- Type designation: ITH100-1