



Number: 222340203/AA/01

Issue Date: 28 July 2023

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:	Bluetooth Low Energy and 802.15.4 wireless radio module
Trademark:	SILICON LABS
Type designation:	MGM240S22A
Variants:	See Annex 3

This certificate is granted to manufacturer:

Name:	Silicon Laboratories Finland Oy
Address:	Alberga Business Park - Bldg D/Floor 5, Bertel Jungin aukio 3
City:	02600 ESPOO
Country:	FINLAND

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)

Mark Chung
Product Assessor

UK CA



0217

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Annex 1 to certificate 222340203/AA/01

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) |

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Annex 1 to certificate 222340203/AA/01

- 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:

AA/01: Revise the certificate.

The device is a module.

Power Supply Rating: 1.8 Vdc to 3.8 Vdc; Operating temperature range: -40 °C~ 105 °C .

Model difference: Function is disabled by software.

Model MGM240S22A has BLE and 802.15.4 ; Model BGM240S22A only has BLE.

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Annex 2 to certificate 222340203/AA/01

Documentation lodged for this type examination

Test Reports:

- Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories: LDCDBM-WTW-P22060902, 18 October 2022
- Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories: RECDBM-WTW-P22060902, 04 October 2022
- Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories: RECDBM-WTW-P22060902-1, 04 October 2022
- Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories: RMCDBM-WTW-P22060902, 10 August 2022
- Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories: MECDBM-WTW-P22060902, 04 October 2022

Product Documentation:

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

Technical Standards and Specifications

The product is compliant with:

EN 300 328	July, 2019	V2.2.2
EN 301 489-1	November, 2019	V2.2.3
EN 301 489-17	September , 2020	V3.2.4
EN 55032:2015+A11:2020	March, 2020	
EN 61000-4-2	March, 2009	
EN 61000-4-3	October, 2020	
EN 61000-4-3:2006+A1:2008+A2:2010	March, 2010	
EN IEC 62311	January, 2020	
EN IEC 62368-1:2020+A11:2020	March, 2020	

Technical features and characteristics

The product includes the following features and characteristics:

Bluetooth LE

- Operating frequency range: 2402-2480 MHz (40 channels)
- Maximum output power: 11.04 dBm EIRP average (calculated)
- Maximum antenna gain: 2.8 dBi

Zigbee

- Operating frequency range: 2405-2480 MHz (16 channels)
- Maximum output power: 11.96 dBm EIRP average (calculated)
- Maximum antenna gain: 2.8 dBi

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Annex 3 to certificate 222340203/AA/01

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

- Product description:	Bluetooth Low Energy and 802.15.4 wireless radio module
- Trademark:	SILICON LABS
- Type designation:	MGM240S22A

- Product description:	Bluetooth Low Energy and 802.15.4 wireless radio module
- Trademark:	SILICON LABS
- Type designation:	BGM240S22A