



Number: 222340145/AA/00

Issue Date: 29 July 2022

Expiration Date: -

Page 1 of 5

## 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 Regulation 2017, that the stated product, complies with the essential requirements, in accordance with part 2 (chapter 1) of Radio Equipment Regulation, 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:	MGM240P22A
Variants:	MGM240P32A, MGM240P32N, BGM240P22A, BGM240P32A, BGM240P32N

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 Regulation 2017.

This certificate has THREE Annexes.

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

Mark Chung  
Product Assessor

**UK  
CA**

**Kiwa Gastec**  
Kiwa House  
Malvern View Business Park  
Stella Way  
Bishops Cleeve  
Cheltenham  
GL52 7DQ  
United Kingdom  
T +44 (0)1242 677877  
F +44 (0)1242 676506  
[www.kiwa.co.uk](http://www.kiwa.co.uk)



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# UKCA Type Examination Certificate (page 2 of 5)

Annex 1 to certificate 222340145/AA/00

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## 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 Directive 2014/35/EU, but with no voltage limit applying;
- C (b) An adequate level of electromagnetic compatibility as set out in Directive 2014/30/EU.

### Article 6.2

- C Radio equipment shall be so constructed 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)   |

# UKCA Type Examination Certificate (page 3 of 5)

Annex 1 to certificate 222340145/AA/00

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- This UKCA-type examination certificate is limited to the Radio Equipment Regulation.
- This UKCA-type examination certificate is part of the Conformity Assessment procedure Module B, as described in annex III of the Radio Equipment Regulation.
- 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 Regulation 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 directive 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:*

Model difference:

1. Models BGM240P22A and BGM240P32A and BGM240P32N have the 802.15.4 wireless protocol disabled.
2. Models BGM240P22A and MGM240P22A have 10dBm nominal max output power.
3. Models BGM240P22A and BGM240P32A and MGM240P22A and MGM240P32A have an integral antenna with peak gain of 1.82dBi. Models BGM240P32N and MGM240P32N have an RF pin and are compliant with an external reference dipole antenna having peak gain of 2.80dBi.

The product is a Radio module.

# UKCA Type Examination Certificate (page 4 of 5)

Annex 2 to certificate 222340145/AA/00

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## Documentation lodged for this type examination

### *Test Reports:*

- Bureau Veritas CPS (H.K.) Limited, Taoyuan Branch: LDCDBM-WTW-P22030865, 11 May 2022
- Bureau Veritas CPS (H.K.) Limited, Taoyuan Branch: RECDBM-WTW-P22030865, 27 June 2022
- Bureau Veritas CPS (H.K.) Limited, Taoyuan Branch: RECDBM-WTW-P22030865-1, 27 June 2022
- Bureau Veritas CPS (H.K.) Limited, Taoyuan Branch: RMCDBM-WTW-P22030865, 16 June 2022
- Bureau Veritas CPS (H.K.) Limited, Taoyuan Branch: SECDBM-WTW-P22030865, 27 June 2022

### *Product Documentation:*

- Assembly drawings
- Bill of materials
- Block diagram
- Internal photos
- External photos
- Manual
- Label and label placement
- Test setup photos

## 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 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: 19.92 dBm EIRP average (calculated)
- LE: low energy, 1M Symbol/s PHYs

#### **Bluetooth LE**

- Operating frequency range: 2404-2478 MHz (37 channels)
- Maximum output power: 19.93 dBm EIRP average (calculated)
- LE: low energy, 2M Symbol/s PHY

#### **Zigbee**

- Operating frequency range: 2405-2480 MHz (16 channels)
- Maximum output power: 11.91 dBm EIRP average (calculated)

# UKCA Type Examination Certificate (page 5 of 5)

Annex 3 to certificate 222340145/AA/00

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**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: MGM240P22A
  
- Product description: Bluetooth Low Energy and 802.15.4 wireless radio module
- Trademark: Silicon Labs
- Type designation: MGM240P32A
  
- Product description: Bluetooth Low Energy and 802.15.4 wireless radio module
- Trademark: Silicon Labs
- Type designation: MGM240P32N
  
- Product description: Bluetooth Low Energy wireless radio module
- Trademark: Silicon Labs
- Type designation: BGM240P22A
  
- Product description: Bluetooth Low Energy wireless radio module
- Trademark: Silicon Labs
- Type designation: BGM240P32A
  
- Product description: Bluetooth Low Energy wireless radio module
- Trademark: Silicon Labs
- Type designation: BGM240P32N