

EU-type examination (Module B) certificate

No: 202140122/AA/02

In compliance with the procedure specified in RD_061, Telefication declares as designated Notified Body 0560 for the European Radio Equipment Directive, that the stated product, complies with the essential requirements, in accordance with Article 3 of Directive 2014/53/EU, 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: **LTE Cat M1 Module**
Trademark: **Quectel**
Type designation: **BG95-M1**
Hardware / Software version: **R2.1 / BG95M1LAR02A04**

This certificate is granted to manufacturer:

Name: **Quectel Wireless Solutions Co., Ltd.**
Address: **Building 5, Shanghai Business Park Phase III (Area B), No.1016
Tianlin Road, Minhang District**
City: **200233 Shanghai**
Country: **China**

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

This certificate has THREE Annexes.

Apeldoorn, 27 May 2021



George Lo
Product Assessor



General Conditions

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

Article 3.1

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 3.2

- 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.

Article 3.3

Radio equipment within certain categories or classes shall be so constructed that it complies with the following essential requirements:

- NA (a) Radio equipment interworks with accessories, in particular with common chargers;
- NA (b) Radio equipment interworks via networks with other radio equipment;
- NA (c) Radio equipment can be connected to interfaces of the appropriate type throughout the Union;
- NA (d) Radio equipment does not harm the network or its functioning nor misuse network resources, thereby causing an unacceptable degradation of service;
- NA (e) Radio equipment incorporates safeguards to ensure that the personal data and privacy of the user and of the subscriber are protected;
- NA (f) Radio equipment supports certain features ensuring protection from fraud;
- NA (g) Radio equipment supports certain features ensuring access to emergency services;
- NA (h) Radio equipment supports certain features in order to facilitate its use by users with a disability;
- NA (i) Radio equipment supports certain features in order to ensure that software can only be loaded into the radio equipment where the compliance of the combination of the radio equipment and software has been demonstrated.

Legend

- C = Conform
- NC = Not Conform
- NA = Not applicable (for this equipment)
- NP = Not performed (for this certificate)

- This EU-type examination certificate is limited to the Radio Equipment Directive.
- This EU-type examination certificate is part of the Conformity Assessment procedure Module B and C, as described in annex III of the Radio Equipment Directive.
- The validity of this EU-type examination certificate is limited to products, which are equal to the one(s) assessed for this EU-type examination.
- When the manufacturer (or holder of this EU-type examination certificate) is placing the listed products on the European market or the countries of the EEA, he is obliged to label the products with the prescribed CE logo. The CE logo stands for conformity to all applicable Directives. Next to the CE logo the manufacturer has to draw up and issue a Declaration of Conformity, declaring that the product(s) described in this EU type-examination certificate, are in compliance with Directive 2014/53/EU and any other applicable EU 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, Telefication shall be notified immediately. Depending on the modifications, Telefication may have additional examinations carried out in consultation with the applicant.
- Enforcement of a new amending directive voids the validity of this EU-type examination certificate.
- In case any referenced standard in this EU-type examination certificate is withdrawn or superseded and the presumption of conformity with the essential requirements has ceased, investigation by Telefication is needed to determine the validity of this EU-type examination.

Remarks and observations

The following conditions are applicable:

AA/02: The standard updates/the change of SW version

This radio module has been assessed for use in the temperature range of -40°C to +85°C and with an input voltage of 3.3 V DC, with low, and high extrimity of 2.6V, and 4.8V. This radio module is for professional installation only. When installing this radio module permanently into a host product to a create new radio equipment device; the manufacturer responsible for placing the final radio product on the market in the EU must assess if the combination of this radio module and the host product complies with the essential requirements of the RE Directive 2014/53/EU Device supports supports Cat. M1, and NB2
Device supports non-EU bands.

Documentation lodged for this EU-type examination

Test Reports:

- TA Technology (Shanghai) Co., Ltd.: R2103A0194-E1, 30 April 2021
- TA Technology (Shanghai) Co., Ltd.: R2103A0194-L1, 29 April 2021
- TA Technology (Shanghai) Co., Ltd.: R2103A0194-M1, 29 April 2021
- TA Technology (Shanghai) Co., Ltd.: R2103A0194-R1V1, 21 May 2021
- TA Technology (Shanghai) Co., Ltd.: R2103A0194-R2, 30 April 2021

Product Documentation:

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

Technical Standards and Specifications

The product is compliant with:

EN 303 413	April, 2021	V1.2.1
Draft EN 301 489-19	September, 2020	V2.2.0
Draft EN 301 489-52	Dec, 2020	V1.1.2
EN 301 489-1	November, 2019	V2.2.3
EN 301 908-1	Nov, 2019	V13.1.1
EN 301 908-13	November, 2019	V13.1.1
EN 50665	November, 2017	
EN 55032:2015+A11:2020	March, 2020	
EN 55035:2017+A11:2020	May, 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:

GPS receiver

- Operating frequency range: 1559-1610 MHz

GLONASS receiver

- Operating frequency range: 1559-1610 MHz

BDS receiver

- Operating frequency range: 1559-1610 MHz

Galileo receiver

- Operating frequency range: 1559-1610 MHz

LTE FDD Band 1

- Operating frequency range: 1920-1980, 2110 - 2170 MHz
- Maximum output power: 21 dBm rated

LTE FDD Band 3

- Operating frequency range: 1710-1785, 1805-1880 MHz
- Maximum output power: 21dBm rated

LTE FDD Band 8

- Operating frequency range: 880-915, 925-960 MHz
- Maximum output power: 21 dBm rated

LTE FDD Band 20

- Operating frequency range: 832-862, 791-821 MHz
- Maximum output power: 21 dBm rated

LTE FDD Band 28

- Operating frequency range: 703-748, 758-803 MHz
- Maximum output power: 21 dBm rated

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

- Product description: LTE Cat M1 Module
- Trademark: Quectel
- Type designation: BG95-M1
- Hardware version: R2.1
- Software version: BG95M1LAR02A04