



NB Identification Number 0680

Authorized by the German government to act as Notified Body in accordance with Council Directive 2014/53/EU of 18 April 2014

Certificate Holder: ifm electronic GmbH
Friedrichstraße 1
45130, Essen
Germany

Product Manufacturer: See Certificate Holder

Product Designation: io-key

Product Description: IoT cellular gateway
Type: AIK050

Essential Requirement(s)	Applied Specification(s)/Standard(s)	Result
Radio Spectrum RED, Article 3.2	EN 301 511 V12.5.1 / EN 301 908-1 V13.1.1 / EN 301 908-13 V13.1.1 / EN 300 328 V2.2.2	conform
EMC RED, Article 3.1b	EN 301 489-1 V2.2.3 / EN 301 489-17 V3.2.4 / Draft EN 301 489-52 V1.1.0	conform
Safety RED, Article 3.1a	EN 62368-1:2014+AC:2015+A11:2017	conform
Health RED, Article 3.1a	EN 62311:2008	conform

Due to the absence of harmonized standards acc. to Council Directive 2014/53/EU at the time of the assessment at hand, this EU Type Examination Certificate is based on harmonized standards acc. to Council Directive 1999/5/EC and/or draft standards which haven't been harmonized so far but represent the latest state of standardization.

Type Examination Certificate:

Our opinion in accordance with Annex III of Council Directive 2014/53/EU on Radio Equipment Directive and the mutual recognition of their conformity is that the evaluation of the submitted documents related to the apparatus identified above complies with the requirement of that directive stated in the above scope. The scope of this evaluation relates to the submitted documents only.



BNNetzA-bS-13/51-58

Marking:

The product shall be marked with the CE marking as required in the Council Directive 2014/53/EU.

Annexes:

The certificate is only valid in conjunction with the following **number** of annexes: 1

Validity:

The validity of this certificate is limited to 5 years after the date of issue. Revisions of the applied standards and/or modifications of the approved type that may affect the conformity of the radio equipment with the essential requirements of Directive 2014/53/EU may also have an impact on the validity of this certificate.

Certificate Registration No.:

M20-0925-03-TEC

CETECOM GmbH

Place, issue date
Essen, 2022-06-22

Authorized signature



Product Characteristics:

HW Version: 1.2.27

SW Version: 1.0

GSM / E-UTRA part:

Frequency Band(s):

GSM 850^(*)/900/1800/1900^(*)E-UTRA (FDD 1,2^(*),3,4^(*),5^(*),8,12^(*),18^(*),19^(*),20,26^(*),28)

Power Class:

GSM 850/900: 4 / GSM 1800/1900: 1 / E-UTRA: 3

Bluetooth® part:

Operating Frequency Range:

2400 – 2483,5 MHz

EIRP:

≤ 10 dBm

Number of Channels:

40

Modulation:

GFSK

^(*)Note: Non-EU designated radio frequency bands and/or technologies supported by the equipment were not part of the assessment**Conformity Details:**

Requirement	Standard(s), test report number & laboratory
Radio spectrum	EN 301 511 V12.5.1 / EN 301 908-1 V13.1.1 / EN 301 908-13 V13.1.1 / EN 300 328 V2.2.2 / -No.: 19-1-0109601T03a by CETECOM GmbH (*) -No.: 19-1-0109601T04a by CETECOM GmbH (*) -No.: 19-1-0109601T06a by CETECOM GmbH (*) -No.: 19-1-0109601T07a by CETECOM GmbH -No. : 1-0223/20-01-02 by CTC advanced (*) -No. : 1820125R-001 by DEKRA Testing and Certification, S.A.U. (*) -No. : 1860154R-002.03 by DEKRA Testing and Certification, S.A.U. (*) -No.: T818294-01-TEC by CTC advanced GmbH (TEC for BLE module) -No.: 60864RNB.001A1 by DEKRA Testing and Certification, S.A.U. (TEC for cellular module) Note: TCs 12.2.x of 3GPP TS 51 010-1 have been performed under nominal voltage conditions (please refer to chapters 12.2.1.1/12.2.2.1 of 3GPP TS 51 010-1).
EMC	EN 301 489-1 V2.2.3 / EN 301 489-17 V3.2.4 / Draft EN 301 489-52 V1.1.0 -No.: 19-1-0109608T01a by CETECOM GmbH (*)
Safety	EN 62368-1:2014+AC:2015+A11:2017 -No.: TR19-1-0109601T09a_C04 by CETECOM GmbH (*)
Health	EN 62311:2008 -No.: 19-1-0109601T08a by CETECOM GmbH

Miscellaneous:

- Product's Technical Documentation

Note: The assessment documented herein is partially based on documentation (including the test reports marked with an asterisk ^(*)) documentation from assessments applied to a product variant and/or a former version of the product which can be seen as identical in most relevant parts. That documentation is an additional part of the current technical documentation or may be given there by reference, together with relevant update and / or comparison information.
