



DEKRA Testing and Certification, S.A.U.

Product certification body accredited by ENAC with accreditation No. 134/C-PR301
and designated by the competent national authority of Spain

to act as Notified Body (Notified Body No: 1909) in accordance with the Directive 2014/53/EU of 16 April 2014

Directive 2014/53/EU – EU-TYPE EXAMINATION CERTIFICATE

Identification Number: **64610RNB.001**
Issue date: **2020-09-16**

MANUFACTURER DETAILS:

Company name: **Nordic Semiconductor ASA**
Address: **Otto Nielsens vei 12
N-7052 Trondheim
Norway**

EQUIPMENT DETAILS:

Type of equipment: **IOT Module**
Brand name: **nRF91**
Model name: **nRF9160**
HW version: **nRF9160-SICA-B1A**
SW versions: **mfw_nRF9160_1.1.3**

SCOPE OF OPINION:

Essential requirements	Specifications / Standards	Submitted documents
Article 3.1(a): Electrical safety	EN 62368-1:2014 + AC:2015	EUTEC
Article 3.1(a): EMF exposure	EN 62311:2008	EUTEC
Article 3.1(b): EMC	EN 301 489-1 V2.2.3 Draft EN 301 489-19 V2.1.0 Draft ETSI EN 301 489-52 V1.1.0	Test report EUTEC
Article 3.2: Radio spectrum use	EN 301 908-1 V11.1.1 EN 301 908-13 V13.1.1 EN 303 413 v1.1.1	Test reports EUTEC

OPINION:

Our opinion in accordance with Annex III of DIRECTIVE 2014/53/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on radio equipment and the mutual recognition of their conformity is that the equipment complies with the requirements of that directive stated in the above scope.

This opinion has 1 annex with 2 pages and it is only valid in conjunction with it.

Signed on behalf of DEKRA Testing and Certification, S.A.U. in Málaga (Spain)

Name: Benjamin Ramirez
Position: Responsible for Certification



Annex I to EU-Type Examination Certificate No. 64610RNB.001

TECHNICAL DOCUMENTATION:

Held at: **Nordic Semiconductor ASA**
Address: **Otto Nielsens vei 12**
N-7052 Trondheim
Norway

TECHNICAL FEATURES AND CHARACTERISTICS:

Operating modes: **LTE Cat-NB1, LTE Cat-M1, GPS**
Operating frequency bands: **LTE: FDD 1, FDD 3, FDD 8, FDD 20, FDD 28**
GNSS: GPS L1
Modulations: **LTE Cat-NB1: BPSK, QPSK**
LTE Cat-M1: QPSK, 16QAM
Output power: **23 dBm -3/+1 dB**
Antenna: **External antenna. Impedance 50 Ohm**
Operating voltage: **From 3.0 to 5.5 VDC**
Operating temperature: **From -10°C to 55 °C**
Intended use: **IOT Module that has Application CPU, LTE Cat-M1, Cat-NB1 Radio and GPS Receiver.**

CONFORMITY DETAILS:

Essential requirements	Specifications / Standards	Reference documents
Article 3.1(a): Electrical safety	EN 62368-1:2014 + AC:2015	59675RNB.001
Article 3.1(a): EMF exposure	EN 62311:2008	59675RNB.001
Article 3.1(b): EMC	EN 301 489-1 V2.2.3 Draft EN 301 489-19 V2.1.0 Draft ETSI EN 301 489-52 V1.1.0	64610REM.003A1 59675RNB.001
Article 3.2: Radio spectrum use	EN 301 908-1 V11.1.1 EN 301 908-13 V13.1.1 EN 303 413 v1.1.1	59675RNB.001 64610REM.001A1 64610REM.002A1 64610RMV.001

REMARKS AND COMMENTS:

It is mandatory to inform DEKRA Testing and Certification, S.A.U. in writing about any change in the approved equipment identified in this certificate, which could affect the conformity of the apparatus with the essential requirements or the conditions of validity of this certificate.

EMF exposure only evaluated when the antenna used with the device is located at a minimum distance of 20 cm from the user.

Device tested with a reference antennas as detailed below:

- LTE: P822601 / P822602
- GNSS: AS-146235-001

Antenna should be installed following manufacturer instructions. The use of different antennas or the integration conditions may affect the compliance; if the manufacturer is in doubt about the compliance then the equipment with the new antennas or under new integration conditions must be assessed to demonstrate compliance with the essential requirements of the 2014/53/EC Directive. It should be noted that assessment does not necessarily lead to testing.

59675RNB.001 certificate for nRF91 IOT module, model nRF9160 which conformity with the essential requirements of Directive 2014/53/EU has been previously evaluated by Notified Body No. 1909 (Registration Number: 134/C-PR301). Documentation can be available by contacting with that Notified Body or with module manufacturer.



Host devices integrating this device will need to be evaluated according to the essential requirements of Directive 2014/53/EU following the guidelines provided in the document "REDCA Technical Guidance Note 01 on the RED compliance requirements for a Radio Equipment often referred to as Radio Module and the Final Radio Equipment Product that integrates a Radio Module". This Technical Guidance Note may be accessed in RED Compliance Association website or may be obtained by contacting with DEKRA Testing and Certification, S.A.U. Notified Body at certification.rcb.es@dekra.com.