



## APPROVED BODY

# TYPE EXAMINATION CERTIFICATE

STATUTORY INSTRUMENTS 2017 No. 1206 TELECOMMUNICATIONS

The Radio Equipment Regulations 2017 as amended by Schedule 29 of The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019

## THIS CERTIFICATE IS ISSUED TO

**Nordic Semiconductor ASA**

Otto Niensens veg 12, Company  
7052 Trondheim  
Norway

## TO STATE THAT THE EQUIPMENT KNOWN AS

nRF9161

nRF9161-DK

Conforms (following an evaluation of its associated Technical Documentation and subject to any restrictions stated in the attached Annex) with the essential requirements of Schedule 3, Module B, of the [UK STATUTORY INSTRUMENTS 2017 No. 1206](#) TELECOMMUNICATIONS (the Radio Equipment Regulations 2017) and the mutual recognition of their conformity, in relation to the essential requirements of:

Regulation 6.(3) Special Features

Details of this certification, standards used, RF parameters of this equipment and other information necessary for the correct interpretation and application, including any remarks, restrictions or observations are detailed in the attached Annex.

This is to certify that (a) sample(s) of the Product described herein has been investigated and found to be in compliance with the Standard(s) indicated on this Certificate. This certificate applies only to the product sample(s) submitted by the Applicant. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured products. UL has not established Follow-Up Service or other surveillance of the product. The Applicant/ Manufacturer are solely and fully responsible for conformity of all products to all applicable standard(s), specifications or requirements. This certificate shall only be used in its entirety. Authorization to apply the Approved Body Identification Number adjacent to the UKCA Marking is not permitted for Module B Certifications. The manufacturer shall keep a copy of this Type Examination certificate, its annexes and additions together with the technical documentation at the disposal of the national authorities for 10 years after the radio equipment has been placed on the market.

Signed:

Mark Briggs MIET CEng  
on behalf of UL Verification Services Inc.  
AB 0984

Issue Date: December 13, 2023<sup>1</sup>

Revised: December 18, 2023

Certificate No: AN23C14278-UKCA-1

<sup>1</sup> This certificate **expires 3 years after the issue date** or within one year of publication of a standard that would supersede the standard(s) used to demonstrate compliance and that would require re-assessment of the device.

## ANNEX

### SCOPE OF EXAMINATION

Essential Requirement Applied standard(s) (and version) or reference.

Regulation 6. (2) Radio Spectrum EN 301 406-2 V3.1.1;

This Type Examination AN23C14278-1 is for plug-in Radio Equipment (aka Radio Module) and as such additional assessment for the development kit has been carried out. Refer to the *ADDITIONAL COMMENTS FOR MODULAR RADIO DEVICES* section for more details.

### TECHNICAL DOCUMENTATION DETAILS

Title: Technical Construction File (TCF)  
 Reference Number: Technical Summary document for nRF9161-DK  
 Issue Date: November 17<sup>th</sup>, 2023, plus updates  
 Contact Name: Mona Hämeenaho

### GENERAL PRODUCT DETAILS

Brand / Trade Name: Nordic Semiconductor  
 Model Number(s) / Type Designation: nRF9161  
 nRF9161-DK  
 Build Version / Revision Level: v.0.9.0  
 Software Name and Version: mfw-nr+\_nfr91X1\_1\_0.5.0-74.prealpha  
 Operating Frequency and Declared Maximum Output Power: DECT NR+ 1880 – 1900 MHz 23.4 dBm eirp  
 The above values are for the development kit when using module nRF9161 with maximum gain antennas of 4.4 dBi.  
 Maximum Conducted powers for Module DECT NR+ 1880 – 1900 MHz 19.0 dBm  
 Description of Use / Function: nRF9161 is an IoT module containing a DECT NR+ radio. The Development Kit, nRF9161-DK, is used to design and develop application firmware for the IoT module.  
 Manufacturers Company Name: Nordic Semiconductor ASA  
 Manufacturers Address: Otto Nielsens veg 12, Company  
 7052 Trondheim  
 Norway

### ACCESSORIES

None

### PRODUCT VARIANT DETAILS

The module and development kit can be configured to support either DECT technology or a combination of LTE and GNSS technologies. This certificate is for the version that supports DECT.

## ASSESSMENT OF STANDARDS APPLIED

References to designated standards for the Radio Regulations are with reference to the list published on 19 January, 2023 ([www.gov.uk](http://www.gov.uk)).

The non-designated standard ETSI EN 301 406-2 V3.1.1 was used. There are no designated versions of this standard available. This standard represents state-of-the-art for the equipment within its scope with respect to demonstrating compliance with Regulation 6(2).

The manufacturer needs to consider re-assessment of compliance as newer versions of standards used are published and designated.

## REMARKS AND OBSERVATIONS

The manufacturer's declaration of conformity (DoC) appropriately lists the standards used and identifies the equipment by a model number. The additional inclusion of batch or serial numbers in the DoC may be required to identify which version of a DoC applies whenever the DoC is updated and applies only to specific versions of a model (e.g. after a modification to meet a requirement introduced through revisions in standards). The manufacturer is reminded that the UKCA Declaration of Conformity and the Technical Documentation, which includes this certificate, shall be kept at the disposal of the National Authority for ten years after the radio equipment has been placed on the market.

The simplified DoC is included in the user documentation, meeting the requirements of regulation 13(3).

The product labelling and product packaging contained the UKCA mark as required by the Regulations. As required by regulation 12 the registered trademark / name of the manufacturer is also included. The product label did not include the manufacturer or importer information however, as the development kit is not for sale on the open market and the is a module to be pre-installed in a host device before importation, the manufacturer/importer information will be supplied in the host manual. The product labeling included a type, batch or serial number or other element allowing its identification as required by the Regulations.

The user information provided in the technical documentation does include the operating frequency and output power information required by Regulation 13. This information must be included in the user documentation prior to placing the device on the market in the UK.

## ADDITIONAL COMMENTS FOR MODULAR RADIO DEVICES

This certificate is limited to the radio module as identified and documented. It does not constitute compliance of products which will incorporate this module, with the exception of the Development Kit nR1961-DK.

Integrators shall be provided with sufficient technical detail instruction for compliant installation / integration of the module. Such instruction should include an alert to the integrator to evaluate the host product with the integrated radio module against the essential requirements of the Radio Regulations and may contain recommendations about the scope of re-evaluation.

Compliance with essential requirements related to use of the Regulation 6(2) for most host systems may be limited to the radiated spurious emissions and receiver blocking test requirements detailed in the referenced standards provided that the host system is intended for use in indoor/outdoor locations (temperature range of -10°C to 70°) and providing a stable voltage (+/- 10% of nominal 5 Volts) to the module over a +/-15% input voltage range to the host system. Additional, host-level evaluation is required for host systems using this module to demonstrate compliance with the essential requirements of the Radio Equipment Directive not covered by the module testing including, but not limited to, EMC, safety (rf exposure and LVD).

Additional, host-level evaluation is required for systems using this module to demonstrate compliance with the essential requirements of Radio Regulations 6.1(a), 6.1(b), 6.3 and 4.4 taking into consideration all of the functions and features of the combined equipment.

System integrators may find the following ETSI technical guide of use when performing evaluations of the final product: ETSI EG 203 367 V1.1.1 "*Guide to the application of harmonised standards covering articles 3.1b and 3.2 of the Directive 2014/53/EU (RED) to multi-radio and combined radio and non-radio equipment*". In addition, Guidance Note 01 published by the [RED CA](#) contains guidance on requirements for host system incorporating radio modules.

## REVISION HISTORY

December 13, 2023	Original version (-1) released.
December 18, 2023	Updated firmware and device description.

