NOTIFIED BODY

MODULE B: EU TYPE EXAMINATION CERTIFICATE

(For Council Directive 2014/53/EU)

THIS CERTIFICATE IS ISSUED TO

Nordic Semiconductor ASA

Otto Nielsens 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 Annex III, Module B, of the Council Directive **2014/53/EU** on Radio Equipment (RED) and the mutual recognition of their conformity, in relation to the essential requirements of:

Article 3.2 Radio Spectrum

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 Notified Body Identification Number adjacent to the CE Marking is not permitted for Module B Certifications. The manufacturer shall keep a copy of the EU-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

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

Issue Date: December 13, 2023[1]
Revised: December 18, 2023

Certificate No: AN23C14278-1

[1] This certificate expires 3 years after the issue date or within one year of publication of a standard that supersedes the standard(s) listed under the SCOPE OF EXAMINATION section of this certificate.

ANNEX

SCOPE OF EXAMINATION

Article	Applied standard(s) (and version) or reference.
Article 3.2 Radio Spectrum use	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 17th, 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 RE-D harmonised standards consider Official Journal entries to the Commission Implementing Decision (EU) 2023/2392 of 3 October 2023.

The non-harmonised standard ETSI EN 301 406-2 V3.1.1 was used. There are no harmonised versions of this standard available. This standard represents state-of-the-art for the equipment within its scope with respect to demonstrating compliance with Article 3.2 of the RE-D.

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

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 simplified DoC is included in the user documentation, meeting the requirements of Article 10.9. The EU Declaration of Conformity and the Technical Documentation, which includes this certificate, shall be kept at the disposal of the National Authorities for ten years after the radio equipment has been placed on the market.

The product labelling and product packaging contained the CE mark as required by the RE-D. As required by article 10.7 the registered trademark / name of the manufacturer and their postal address is/are indicated on the equipment. Due to the size / nature of the module the manufacturer has placed their postal address on the packaging or in a document accompanying the radio equipment.

The user information provided in the technical documentation includes the operating frequency and output power information required by article 10.8. This information should be consistent with the actual maximum power supported by the technical documentation and with the output power across production units.

It is the responsibility to the manufacturer to ensure the ongoing compliance of this equipment. The manufacturer shall inform the notified body of all modifications to the approved type that may affect the conformity of the radio equipment with the essential requirements of the Radio Equipment Directive or the conditions for validity of this certificate. Such modifications shall require additional approval in the form of an addition to this EU-type examination certificate.

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 RE-D and may contain recommendations about the scope of re-evaluation.

Compliance with essential requirements related to use of the radio spectrum (Article 3.2) 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 systems using this module to demonstrate compliance with the essential requirements of Radio Equipment Directive Articles 3.1(a), 3.1(b), 3.3 and 3.4 taking into consideration all 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.