



**GRANT OF EQUIPMENT
AUTHORIZATION**



**Certification
Issued Under the Authority of the
Federal Communications Commission**

By:

**DEKRA Testing and Certification, S.A.U.
Parque Tecnológico de Andalucía, Calle
Severo Ochoa 2 y 6
Campanillas - Malaga, 29590
Spain**

Date of Grant: 09/21/2020

Application Dated: 09/21/2020

**Nordic Semiconductor ASA
Otto Nielsens vei 12
Trondheim, 7052
Norway**

Attention: Ketil Aas-Johansen , Application Engineer

NOT TRANSFERABLE

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

**FCC IDENTIFIER: 2ANPO00NRF9160
Name of Grantee: Nordic Semiconductor ASA
Equipment Class: PCS Licensed Transmitter
Notes: IOT Module
Modular Type: Single Modular**

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
	27	699.0 - 716.0	0.19402	1.0 PM	1M14G7W
	27	699.0 - 716.0	0.1556	1.0 PM	965KD7W
	27	777.0 - 787.0	0.20045	1.0 PM	1M11G7W
	27	777.0 - 787.0	0.19498	1.0 PM	947KD7W
	90	788.0 - 798.0	0.21184	1.0 PM	1M11G7W
	90	788.0 - 798.0	0.19055	1.0 PM	968KD7W
	90, 22H	814.0 - 849.0	0.21777	1.0 PM	1M12G7W
	90, 22H	814.0 - 849.0	0.17219	1.0 PM	966KD7W
	90, 22H	823.3 - 824.7	0.20989	1.0 PM	1M11G7W
	90, 22H	823.3 - 824.7	0.17219	1.0 PM	963KD7W
	27	1710.0 - 1780.0	0.2138	1.0 PM	1M12G7W
	27	1710.0 - 1780.0	0.19099	1.0 PM	952KD7W
	24E	1850.0 - 1915.0	0.21777	1.0 PM	1M12G7W
	24E	1850.0 - 1915.0	0.1766	1.0 PM	956KD7W
	90	699.0 - 716.0	0.20091	1.0 PM	203KG7W
	27	777.0 - 787.0	0.20512	1.0 PM	203KG7W
	90, 22H	814.0 - 849.0	0.2023	1.0 PM	203KG7W
	90, 22H	823.9 - 824.1	0.20045	1.0 PM	200KG7W
	22H	1710.0 - 1780.0	0.21135	1.0 PM	204KG7W
	27	1850.0 - 1915.0	0.21777	1.0 PM	205KG7W

Output power listed is conducted.

This grant is valid only when the module is sold to OEM integrators and must be installed by the OEM or OEM integrators. This module can only be used with a host antenna circuit trace layout design in strict compliance with the OEM instructions provided.

The antenna of this transmitter must provide a separation distance of at least 20 cm from all persons. Installers and end-users must be provided with antenna installation instructions and transmitter operating conditions and instructions for satisfying RF exposure compliance.

The final product operating with this transmitter must include operating instructions and antenna installation instructions, for end-users and installers to satisfy RF exposure compliance requirements.

The maximum antenna gain including cable loss for compliance with radiated power limits, RF exposure requirements and the categorical exclusion requirements of 2.1091 is 9.0 dBi for LTE FDD 2 frequency band, 6.0 dBi for LTE FDD 4 frequency band, 7.1 dBi for LTE FDD 5 frequency band, 6.6 dBi for LTE FDD 12 frequency band, 6.9 dBi for LTE FDD 13 frequency band, 6.9 dBi for LTE FDD 14 frequency band, 6.6 dBi for LTE FDD 17 frequency band, 9.0 dBi for LTE FDD 25 frequency band, 7.0 dBi for LTE FDD 26 frequency band and 6.0 dBi for LTE FDD 66 frequency band.

Multi-transmitter, supporting simultaneous transmission configurations, have not been evaluated and shall be evaluated according to KDB Publication 447498 and §2.947(f) composite system and §2.1 end product terms and concepts.

Compliance of this device in all final product configurations is the responsibility of the Grantee.

Installation of this device into specific final products may require the submission of a Class II permissive change application containing data pertinent to RF Exposure, emissions and host/module authentication, or new application if appropriate.

This device contains functions that are not operational in U.S. Territories. This filing is only applicable for U.S. operations.