GRANT OF EQUIPMENT AUTHORIZATION

ТСВ

Certification Issued Under the Authority of the Federal Communications Commission

By:

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

Date of Grant: 06/29/2023

.

Application Dated: 06/28/2023

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:
 PCS Licensed Transmitter

 Modular Type:
 Single Modular

	Frequency	Output	Frequency	Emission
FCC Rule Parts	Range (MHZ)	Watts	Tolerance	<u>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	966KW7D
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	699.2 - 715.8	0.20091	1.0 PM	203KG7W
27	777.2 - 786.8	0.20512	1.0 PM	203KG7W
90, 22H	814.2 - 848.8	0.2023	1.0 PM	203KG7W
90, 22H	824.0 - 824.0	0.20045	1.0 PM	200KG7W
22H	1710.2 - 1779.8	0.21135	1.0 PM	204KG7W
27	1850.2 - 1914.8	0.21777	1.0 PM	205KG7W
27	897.5 - 900.5	0.19678	1.0 PM	1M1G7W
27	897.5 - 900.5	0.155596	1.0 PM	952KD7W
27	897.8 - 900.2	0.1949844	1.0 PM	128KG7W
27	897.8 - 900.2	0.18281	1.0 PM	186KG7W
	27 27 27 27 90 90 90, 22H 90, 22H 90, 22H 90, 22H 27 24E 24E 24E 90 27 90, 22H 90, 22H 90, 22H 90, 22H 27 27 27 27 27 27 27 27	FCC Rule PartsRange (MHZ)27699.0 - 716.027699.0 - 716.027777.0 - 787.027777.0 - 787.090788.0 - 798.090788.0 - 798.090788.0 - 798.090, 22H814.0 - 849.090, 22H814.0 - 849.090, 22H823.3 - 824.790, 22H823.3 - 824.790, 22H823.3 - 824.790, 22H823.3 - 824.7271710.0 - 1780.0271710.0 - 1780.024E1850.0 - 1915.090699.2 - 715.827777.2 - 786.890, 22H814.2 - 848.890, 22H824.0 - 824.022H1710.2 - 1779.8271850.2 - 1914.827897.5 - 900.527897.5 - 900.527897.8 - 900.2	FCC Rule PartsRange (MHZ)Watts27699.0 - 716.00.1940227699.0 - 716.00.155627777.0 - 787.00.2004527777.0 - 787.00.1949890788.0 - 798.00.2118490788.0 - 798.00.2118490788.0 - 798.00.2177790, 22H814.0 - 849.00.2177790, 22H823.3 - 824.70.2098990, 22H823.3 - 824.70.2098990, 22H823.3 - 824.70.17219971710.0 - 1780.00.2138271710.0 - 1780.00.2177724E1850.0 - 1915.00.176690699.2 - 715.80.2009127777.2 - 786.80.2051290, 22H824.0 - 824.00.2004522H824.0 - 824.00.2004522H814.2 - 1179.80.21135271850.2 - 1914.80.2177727897.5 - 900.50.15559627897.8 - 900.20.1949844	FCC Rule PartsRange (MHZ)WattsTolerance27699.0 - 716.00.194021.0 PM27699.0 - 716.00.15561.0 PM27777.0 - 787.00.200451.0 PM27777.0 - 787.00.200451.0 PM90788.0 - 798.00.211841.0 PM90788.0 - 798.00.190551.0 PM90788.0 - 798.00.190551.0 PM90788.0 - 798.00.190551.0 PM90, 22H814.0 - 849.00.172191.0 PM90, 22H823.3 - 824.70.209891.0 PM90, 22H823.3 - 824.70.172191.0 PM90, 22H823.3 - 824.70.172191.0 PM90, 22H823.3 - 824.70.172191.0 PM91, 22H823.3 - 824.70.172191.0 PM9271710.0 - 1780.00.21381.0 PM271770.0 - 1780.00.21381.0 PM271710.0 - 1780.00.190991.0 PM24E1850.0 - 1915.00.17661.0 PM90699.2 - 715.80.20911.0 PM90, 22H814.2 - 848.80.20231.0 PM90, 22H824.0 - 824.00.200451.0 PM90, 22H814.2 - 848.80.20231.0 PM90, 22H814.2 - 848.80.20231.0 PM90, 22H824.0 - 824.00.200451.0 PM27777.2 - 786.80.211351.0 PM27897.5 - 900.50.196781.0 PM

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.

Maximum antenna gains for mobile operation to comply with MPE and EIRP limits are 9.0 dBi for LTE FDD 2 frequency band, 6.0 dBi for LTE FDD 4 frequency band, 10.41 dBi for LTE FDD 5 frequency band, 10.78 dBi for LTE FDD band 8 frequency band, 9.7 dBi for LTE FDD 12 frequency band, 10.16 dBi for LTE FDD 13 frequency band, 10.22 dBi for LTE FDD 14 frequency band, 9.73 dBi for LTE FDD 17 frequency band, 9.0 dBi for LTE FDD 25 frequency band, 10.36 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

C2PC filing to add band 8 according to USA requirements.