

Request for Modular/Limited Modular Approval

Date: No	ovember 12, 2021				
Subject:	Manufacturer's Declaration for	☑ - Modular Approval☐ - Limited Modular Approval	□ - Split Mo		
Confider	ntiality Request for: SCCNUR31	W6			
8 Basic Requirements – FCC Part 15.212(a)(1) For Items Marked "NO(*)", the Limited Module Description Must be Filled Out on the Following Pages					
		pproval Requirement		Require	ment Met
1.	module does not have to rely upon the installed in order for all modular transintended to prevent coupling between circuits in the device into which the results in the results in the device into which the results in the device into which the results in the results in the device into which the results in the results in the results in the device into which the results in the results	ts own RF shielding. This is intended to the shielding provided by the device into the smitter emissions to comply with FCC I in the RF circuitry of the module and any module is installed. Such coupling may recognize any tuning capacitors may be located a)(1)(i)	which it is imits. It is also wires or result in non-	⊠ - YES	□ - NO(*)
		hield which covers all RF components a			
2.		ouffered modulation/data inputs (if such in will comply with FCC requirements under ion. 15.212(a)(1)(ii)		⊠ - YES	□ - NO(*)
Details:	Yes, in the module there is the m	icro controller that provides data bu	ffering for the	inputs.	
3.	intended to ensure that the module w	ts own power supply regulation on the mrill comply with FCC requirements regar try in the device into which the module in the mo	dless of the	⊠ - YES	□ - NO(*)
<i>Details:</i> capabil		power regulators for improving	the power s	supply nois	e rejection
4.	requirements of \$\ \\$\ 15.203, 15.20 \\ must either be permanently attached \\ connections between the module and	y with the antenna and transmission syst 04(b), 15.204(c), 15.212(a), and 2.929(b) or employ a "unique" antenna coupler (all the antenna, including the cable). The "s not applicable to modules but can apply 15.212(b). 15.212(a)(1)(iv)). The antenna (at all 'professional	⊠ - YES	□ - NO(*)
be conn	ected directly with coaxial cable	ale surface mounted connection for to the RP SMA connectors of the NU UR3-1W6 Implementation Guide.		-	
5.	not be inside another device during to is capable of complying with Part 15 eventually installed. Unless the transwith the AC line conducted requirement and data input/output lines connected will be marketed with the module (see length typical of actual use or, if that that there is no coupling between the accessories, peripherals, or support experiments.)	ted in a stand-alone configuration, i.e., the esting. This is intended to demonstrate the emission limits regardless of the device smitter module will be battery powered, nents found in Section 15.207. AC or DC of the to the module must not contain ferrites, the Section 15.27(a)). The length of these is length is unknown, at least 10 centimeters case of the module and supporting equipment connected to the module during lable (see Section 15.31(i)). 15.212(a)(1)	nat the module into which it is it must comply power lines , unless they lines shall be ers to insure pment. Any ig testing shall	⊠ - YES	□ - NO(*)
Det	ails: The module was tested stand-al	one as shown in test setup photographs	filed with this ap	pplication	



Modular Approval Requirement		Requirement Met			
6. The modular transmitter must be labeled with its own FCC ID number, or use an electron display (see KDB Publication 784748). If using a permanently affixed label with its own FCC ID number, if the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: XYZMODEL1" or "Contains FCC ID: XYZMODEL1." Any similar wording that expresses the same meaning may be used. The Grantee may either provide such a label, an example of which must be included in the application for equipment authorization, or, must provide adequate instructions along with the module which explain this requirement. In the latter case, a copy of these instructions must be included in the application for equipment authorization. If the modular transmitter uses an electronic display of the FCC identification number, the information must be readily accessible and visible on the modular transmitter or on the device in which it is installed. If the module is installed inside another device, then the outside of the device into which the module is installed must display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains FCC certified transmitter module(s)." Any similar wording that expresses the same meaning may be used. The user manual	⊠ - YES	□ - NO(*)			
must include instructions on how to access the electronic display. A copy of these instructions must be included in the application for equipment authorization. 15.212(a)(1)(vi)					
Details: There is a label on the module as shown in the labeling exhibit filed with this application. Host specific labeling instructions are shown in the installation manual filed with this application.>					
7. The modular transmitter must comply with all specific rule or operating requirements applicable to the transmitter, including all the conditions provided in the integration instructions by the grantee. A copy of these instructions must be included in the application for equipment authorization. For example, there are very strict operational and timing requirements that must be met before a transmitter is authorized for operation under Section 15.231. For instance, data transmission is prohibited, except for operation under Section 15.231(e), in which case there are separate field strength level and timing requirements. Compliance with these requirements must be assured. 15.212(a)(1)(vii)	⊠ - YES	□ - NO(*)			
Details: The module complies with FCC Part 15C requirements. Instructions to the OEM installer are provided in the installation manual filed with this application.>					
8. The modular transmitter must comply with any applicable RF exposure requirements. For example, FCC Rules in Sections 2.1091, 2.1093 and specific Sections of Part 15, including 15.319(i), 15.407(f), 15.253(f) and 15.255(g), require that Unlicensed PCS, UNII and millimeter wave devices perform routine environmental evaluation for RF Exposure to demonstrate compliance. In addition, spread spectrum transmitters operating under Section 15.247 are required to address RF Exposure compliance in accordance with Section 15.247(b)(4). Modular transmitters approved under other Sections of Part 15, when necessary, may also need to address certain RF Exposure concerns, typically by providing specific installation and operating instructions for users, installers and other interested parties to ensure compliance. 15.212(a)(1)(viii)	⊠ - YES	□ - NO(*)			
Details: The NUR3-1W6 module is intended for the RFID reader devices being of a mobile application includes MPE report of the NUR3-1W6 for mobile category use. The Impleme requirements of the end-user directions for using or installing the final RFID reader device minimum separation distance between the radiator and user's/nearby people's body.	ntation Guid	de gives the			



Limited Module Description – When Applicable

* If a module does NOT meet one or more of the above 8 requirements, the applicant may request Limited Modular Approval (LMA). This Limited Modular Approval (LMA) is applied with the understanding that the applicant will demonstrate and will retain control over the final installation of the device, such that compliance of the end product is always assured. The operating condition(s) for the LMA; the module is only approved for use when installed in devices produced by grantee. A description regarding how control of the end product, into which the module will be installed, will be maintained by the applicant/manufacturer, such that full compliance of the end product is always ensured should be provided here.

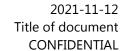
Details: <example - N/A>

Software Considerations – KDB 594280 / KDB 442812 (One of the following 2 items must be applied)							
Requirement							
 For non-Software Defined Radio transmitter modules where software is used to ensure compliance of the device, technical description must be provided about how such control is implemented to ensure prevention of third-party modification; see KDB Publication 594280. 		□ - N/A					
Details: The firmware of the device cannot be modified or adjusted by the end user as described in a separate operational description document filed with this application. >							
2. For <u>Software Defined Radio (SDR)</u> devices, transmitter module applications must provide a software security description; see KDB Publication 442812.	☐ - Provided in Separate Cover Letter	⊠ - N/A					
Details: <example -n="" a=""></example>							

Split Modular Requirements							
Requirement	Requirement Provided in Manual						
 For split modular transmitters, specific descriptions for secure communications between front-end and control sections, including authentication and restrictions on third-party modifications; also, instructions to third-party integrators on how control is maintained. 	☐ - Provided in Separate Cover Letter	⊠ - N/A					
Details: <example a="" n="" –=""></example>							



OEM Integration Manual Guidance – KDB 996369 D03 Section 2 Clear and Specific Instructions Describing the Conditions, Limitations, and Procedures for third-parties to use and/or integrate the module into a host device. Requirement ⊠ - No, If No, and LMA applies, the applicant can optionally choose to not make the following detailed info public. However there still needs to be basic integration instructions for a users manual and Is this module intended for □ - YES the information below must still be included in the operational sale to third parties? description. If the applicant wishes to keep this info confidential, this will require a separate statement cover letter explaining the module is not for sale to third parties and that integration instructions are internal confidential documents Items required to be in the manual – See KDB 996369 D03, Section 2 As of May 1, 2019, the FCC requires ALL the following information to be in the installation manual. Modular transmitter applicants should include information in their instructions for all these items indicating clearly when they are not applicable. For example information on trace antenna design could indicate "Not Applicable". Also if a module is limited to only a grantees own products and not intended for sale to third parties, the user instructions may not need to be detailed and the following items can be placed in the operational description, but this should include a cover letter as cited above. List of applicable FCC rules. KDB 996369 D03, Section 2.2 Only list rules related to the transmitter. Summarize the specific operational use conditions. KDB 996369 D03, Section 2.3 Conditions such as limits on antennas, cable loss, reduction of power for point to point systems, professional installation info 3. Limited Module Procedures. KDB 996369 D03, Section 2.4 Describe alternative means that the grantee uses to verify the host meets the necessary limiting conditions □ - All Items shown to When RF exposure evaluation is necessary, state how control will be maintained such that compliance is ensured, such as Class II for new hosts, etc. the left are provided in 4. Trace antenna designs. KDB 996369 D03, Section 2.5 the Modular Integration Layout of trace design, parts list, antenna, connectors, isolation requirements, tests Guide (or UM) for Full for design verification, and production test procedures for ensuring compliance. If Modular Approval confidential, the method used to keep confidential must be identified and information (MA) or LMA. provided in the operational description. 5. RF exposure considerations. KDB 996369 D03, Section 2.6 ☐ - An LMA applies Clearly and explicitly state conditions that allow host manufacturers to use the and is approved ONLY module. Two types of instructions are necessary: first to the host manufacturer to for use by the grantee in define conditions (mobile, portable – xx cm from body) and second additional text their own products, and needed to be provided to the end user in the host product manuals. not intended for sale to 6. Antennas. KDB 996369 D03, Section 2.7 3rd parties as provided List of antennas included in the application and all applicable professional installer in a separate cover instructions when applicable. The antenna list shall also identify the antenna types letter. Therefore the (monopole, PIFA, dipole, etc – note that "omni-directional" is not considered a type) information shown to the left is found in the 7. Label and compliance information. KDB 996369 D03, Section 2.8 theory of operation. Advice to host integrators that they need to provide a physical or e-label stating "Contains FCC ID: " with their finished product 8. Information on test modes and additional testing requirements. KDB 996369 D03, Section 2.9 Test modes that should be taken into consideration by host integrators including clarifications necessary for stand-alone and simultaneous configurations. Provide information on how to configure test modes for evaluation 9. Additional testing, Part 15 Subpart B disclaimer. KDB 996369 D03, Section 2.10





Paune Willia

Sincerely,

By:

Certification specialist, Nordic ID Oy (Signature/Title¹)

Rauno Nikkilä (Print name)