#### Request for Modular/Limited Modular Approval

Date	e: September 15, 2022				
Sub	ject: Manufacturer's Declaration for	<ul><li>☑ - Modular Approval</li><li>☐ - Limited Modular Approval</li></ul>	<ul><li>□ - Split Modula</li><li>□ - Limited Spli</li></ul>		approval
Con	fidentiality Request for: 2AXJ4RM10	<u>00</u>			
		sic Requirements - FCC Part 15.212(			
		Limited Module Description Must be proval Requirement	Filled Out on the Fo		ment Met
	The modular transmitter must have its own does not have to rely upon the shielding promodular transmitter emissions to comply w between the RF circuitry of the module and installed. Such coupling may result in non-capacitors may be located external to the sh	RF shielding. This is intended to ensure wided by the device into which it is instatith FCC limits. It is also intended to prevany wires or circuits in the device into vecompliant operation. The physical crysta	alled in order for all vent coupling which the module is	⊠ - YES	□ - NO(*)
	Details: < YES, Please refer to External F	Photos>			
	The modular transmitter must have buffered ensure that the module will comply with FC over-modulation. 15.212(a)(1)(ii)			⊠ - YES	□ - NO(*)
	Details: < YES,U2 RTL8720CM is used for	or the function.>			
	The modular transmitter must have its own ensure that the module will comply with FC supplying circuitry in the device into which	CC requirements regardless of the design	of the power	⊠ - YES	□ - NO(*)
	Details: < YES, the modular has its own p	ower supply regulation.>			
	The modular transmitter must comply with 15.203, 15.204(b), 15.204(c), 15.212(a), an attached or employ a "unique" antenna cou antenna, including the cable). The "profess to modules but can apply to limited modula	d 2.929(b). The antenna must either be pupler (at all connections between the motional installation" provision of § 15.203	ermanently dule and the is not applicable	⊠ - YES	□ - NO(*)
	Details: < YES, it is Dipole antenna.>				
	The modular transmitter must be tested in a inside another device during testing. This is complying with Part 15 emission limits regularly unless the transmitter module will be batter requirements found in Section 15.207. AC of the module must not contain ferrites, unless 15.27(a)). The length of these lines shall be least 10 centimeters to insure that there is nequipment. Any accessories, peripherals, or shall be unmodified or commercially availa	intended to demonstrate that the module ardless of the device into which it is every powered, it must comply with the AC or DC power lines and data input/output they will be marketed with the module length typical of actual use or, if that let o coupling between the case of the module support equipment connected to the module.	e is capable of ntually installed. line conducted lines connected to (see Section ngth is unknown, at alle and supporting dule during testing	⊠ - YES	□ - NO(*)
	Details: < Yes, the module is tested in a st	and-alone configuration as the test pho	tos show.>		

Modular Approval Requirement	Require	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 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)	⊠ - YES	□ - NO(*)	
Details: < YES, please refer to the exhibition label sample for this module.>			
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: < YES, please refer to the user manual.>			
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: < YES, RF exposure statement is attached in the user manual.>			

### 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: < N/A>

Software Considerations - KDB 594280 / KDB 442812 (One of the following 2 items must be applied)			
	Requirement	Requirement Met	
1.	For <u>non-Software Defined Radio</u> 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.	☐ - Provided in Separate Cover Letter	⊠ - N/A
	Details: < The firmware of the device can not be modified or adjusted by the end user with this application.>	as described in a separate cov	ver letter filed
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: < N/A>		

Split Modular Requirements		
Requirement	Provided in Manual	
<ol> <li>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.</li> </ol>	☐ - Provided in Separate Cover Letter	⊠ - N/A
Details: < N/A >		

OE	M Integration Manual Guid	dance – 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.					
	in a parties to use ana/or me	regrate the module into a nost 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			
Is this module intended for	_	to be basic integration instructions for a users manual and the			
sale to third parties?	□ - YES	information below must still be inclu			
•		description. <u>If the applicant wishes to ke</u>			
		this will require a separate statement co			
		module is not for sale to third parties and that integration instructions are internal confidential documents.			
Item	s required to be in the man	ual – See KDB 996369 D03, Section 2	ittar documents.		
		ormation to be in the installation manual.	Modular transmitter		
		all these items indicating clearly when the			
		Not Applicable". Also if a module is limite			
		structions may not need to be detailed and			
		t this should include a cover letter as cited	above.		
1. List of applicable FCC rules. KI					
	ated to the transmitter.	260 D02 G 2.2	1		
2. Summarize the specific operatio					
	onal installation info	ss, reduction of power for point to point			
3. Limited Module Procedures. KE					
		es to verify the host meets the necessary			
limiting condition			□ - All Items shown to		
		te how control will be maintained such	the left are provided in		
	s ensured, such as Class II for	new hosts, etc.	the Modular Integration		
	4. Trace antenna designs. KDB 996369 D03, Section 2.5				
		nectors, isolation requirements, tests for	Modular Approval (MA)		
		ures for ensuring compliance. If tial must be identified and information	or LMA.		
	perational description.	that must be identified and information			
5. RF exposure considerations. KD			☐ - An LMA applies		
		w host manufacturers to use the module.	and is approved ONLY		
	Two types of instructions are necessary: first to the host manufacturer to define for use by the grantee in				
		y) and second additional text needed to be	their own products, and not intended for sale to		
	nd user in the host product ma	nnuals.	3 <sup>rd</sup> parties as provided in		
6. Antennas. KDB 996369 D03, Se		1 -111:b1fi1:4-11	a separate cover letter.		
	a. List of antennas included in the application and all applicable professional installer instructions when applicable. The antenna list shall also identify the antenna types  Therefore the				
			information shown to the		
7. Label and compliance information	1, dipole, etc – note that offini-directional is not considered a type)				
		ovide a physical or e-label stating	theory of operation.		
	D: " with their finished produc				
8. Information on test modes and a					
		tion by host integrators including			
	essary for stand-alone and sin				
	ion on how to configure test n				
9. Additional testing, Part 15 Subp	art B disclaimer. KDB 996369	9 D03, Section 2.10			

Sincerely,

By: Regulatory Compliance Manager
Sarah Wang (Signature/Title¹)

Sarah Wang (Print name)

<sup>&</sup>lt;sup>1</sup> - Must be signed by applicant contact given for applicant on the FCC site, or by the authorized agent if an appropriate authorized agent letter has been provided. Letters should be placed on appropriate letterhead.