Request for Modular/Limited Modular Approval

Date	e: August 20, 2019				
Sub	ject: Manufacturer's Declaration for	☑ - Modular Approval☐ - Limited Modular Approval	☐ - Split Modula ☐ - Limited Spli		Approval
Con	fidentiality Request for: XPYLISAU2	200			
		sic Requirements – FCC Part 15.212(Limited Module Description Must be		llowing Page	9
		pproval Requirement	rinea Out on the ro		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 instaith FCC limits. It is also intended to prevany wires or circuits in the device into wompliant operation. The physical crysta	alled in order for all vent coupling which the module is	⊠ - YES	□ - NO(*)
	Details: <example contains<br="" module="" the="" –="">the top of the board next to antenna conne</example>	a metal shield which covers all RF conctor>	nponents and circuit	ry. The shield	l is located on
	The modular transmitter must have buffered ensure that the module will comply with FC over-modulation. 15.212(a)(1)(ii)			⊠ - YES	□ - NO(*)
	Details: <example application="" data="" modulation="" the="" to="" –=""></example>	on circuit is buffered as described in the	e operational descrip	tion provided	with the
	The modular transmitter must have its own ensure that the module will comply with FC supplying circuitry in the device into which	C requirements regardless of the design	of the power	⊠ - YES	□ - NO(*)
	Details: <example contains<="" module="" td="" the="" –=""><td>its own power supply regulation. Pleas</td><td>se refer to schematic</td><td>filed with this</td><td>s application></td></example>	its own power supply regulation. Pleas	se refer to schematic	filed with this	s application>
	The modular transmitter must comply with 15.203, 15.204(b), 15.204(c), 15.212(a), and attached or employ a "unique" antenna countenna, including the cable). The "profession modules but can apply to limited modular	d 2.929(b). The antenna must either be pupel (at all connections between the motional installation" provision of § 15.203	ermanently dule and the is not applicable	⊠ - YES	□ - NO(*)
3	Details: <example a="" an="" and="" antenna="" antennas="" application="" approved="" be="" connector="" connector.="" connects="" considered="" device="" found="" in="" is="" its="" list="" manual="" may="" module="" non-standard="" of="" provided="" tested="" the="" this="" to="" ufl="" users="" using="" which="" with="" –=""></example>				
	The modular transmitter must be tested in a sinside another device during testing. This is complying with Part 15 emission limits regard. 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 no equipment. Any accessories, peripherals, or shall be unmodified or commercially available.	intended to demonstrate that the module ardless of the device into which it is ever by 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 ler be coupling between the case of the modus 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(*)
į.	Details: <example application="" as="" filed="" in="" module="" photographs="" setup="" shown="" stand-alone="" test="" tested="" the="" this="" was="" with="" –=""></example>				

	Modular Approval Requirement	Doguire	ement Met
6.	The modular transmitter must be labeled with its own FCC ID number, or use an electron display (see KDB Publication 784748).	Kequire	ment iviet
	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.	⊠ - YES	□ - NO(*)
	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)		
	Details: <example a="" applaced="" application.="" are="" as="" exhibit="" filed="" in="" installation="" instructions="" is="" label="" labeling="" manual="" module="" on="" shown="" the="" there="" this="" with="" –=""></example>	olication. Hos	st specific
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: <example 15c="" application.="" complies="" fcc="" filed="" installation="" instructions="" manual="" module="" oem="" part="" requirements.="" the="" this="" to="" with="" –=""></example>	l installer are	provided in
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: <example as="" exclusion="" exposure="" in="" informapplication.="" levels="" meets="" module="" portable="" rf="" shown="" the="" –=""></example>	ation filed wit	th this

* 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		Requirement Met		
compliance of the device, tech	lio transmitter modules where software is used to ensure nical description must be provided about how such are prevention of third-party modification; see KDB	☐ - Provided in Separate Cover Letter	□ - N/A	
Details: <example firm<br="" the="" –="">letter filed with this application</example>	Details: <example a="" adjusted="" application.="" as="" be="" by="" can="" cover="" described="" device="" end="" filed="" firmware="" in="" letter="" modified="" not="" of="" or="" separate="" the="" this="" user="" with="" –=""></example>			
	SDR) devices, transmitter module applications must scription; see KDB Publication 442812.	- Provided in Separate Cover Letter	□ - N/A	
Details: <example -n="" a=""></example>				

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/ <i>l</i>
Details: <example -="" a="" n=""></example>		

OI	M Introduction Manual Co. 1	L L/DD 00/3/0 D03 C 3		
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 ca		
		make the following detailed info public.		
Is this module intended for	⊠ - YES	to be basic integration instructions for	a users manual and the	
sale to third parties?	E - 125	information below must still be includescription. If the applicant wishes to k		
		this will require a separate statement co		
		module is not for sale to third partie		
		instructions are internal confidence		
		nal - See KDB 996369 D03, Section 2		
As of May 1, 2019, the FCC req	uires ALL the following info	ormation to be in the installation manual.	Modular transmitter	
applicants should include informat	ion in their instructions for a	all these items indicating clearly when the	ey are not applicable. For	
products and not intended for sale	nna design could indicate "r	Not Applicable". Also if a module is limit structions may not need to be detailed an	ed to only a grantees own	
		this should include a cover letter as cited		
1. List of applicable FCC rules. K				
 Only list rules rel 	ated to the transmitter.			
2. Summarize the specific operatio	nal use conditions. KDB 9963	69 D03, Section 2.3		
		ss, reduction of power for point to point	Later parties and a march	
	onal installation info			
3. Limited Module Procedures. KD				
a. Describe alternati		s to verify the host meets the necessary		
		te how control will be maintained such	☐ - All Items shown to	
	s ensured, such as Class II for		the left are provided in	
4. Trace antenna designs. KDB 99			the Modular Integration	
	Modular Amproval (MAA)			
		ires for ensuring compliance. If	or LMA.	
confidential, the r	nethod used to keep confident	tial must be identified and information		
5. RF exposure considerations. KD	perational description.		☐ - An LMA applies	
		w host manufacturers to use the module.	and is approved ONLY	
			for use by the grantee in	
	conditions (mobile, portable – xx cm from body) and second additional text needed to be their own products, and			
	d user in the host product ma	nuals.	not intended for sale to	
6. Antennas. KDB 996369 D03, Se			3 rd parties as provided in	
a. List of antennas ii	icluded in the application and	all applicable professional installer	a separate cover letter. Therefore the	
		hall also identify the antenna types -directional" is not considered a type)	information shown to the	
7. Label and compliance information			left is found in the	
		vide a physical or e-label stating	theory of operation.	
	D: " with their finished produc			
8. Information on test modes and ac	dditional testing requirements.	. KDB 996369 D03, Section 2.9		
		ion by host integrators including		
	essary for stand-alone and sim			
	on on how to configure test m			
9. Additional testing, Part 15 Subpa	in d disciallier, KDB 990309	7 DOS, SECTION 2.10		
Sincerely,				

By: Roseelan Sathiyaseelan (Print name)

¹ - 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.