

## **Request for Modular/Limited Modular Approval**

Date: 2024.05.31		
Subject: Manufacturer's Declaration for $oximes$ - Modular Approval $oximes$ - Sp	olit Modular	Approval
☐ - Limited Modular Approval ☐ - Limited Sp	lit Modular	Approval
		•
Confidentiality Request for: 2BEY3LCUR57WWDC		
8 Basic Requirements – FCC Part 15.212(a)(1)	E. II	
For Items Marked "NO(*)", the Limited Module Description Must be Filled Out on the Modular Approval Requirement		ages ement Met
The modular transmitter must have its own RF shielding. This is intended to ensure that the	Require	ment wet
module does not have to rely upon the shielding provided by the device into which it is		
installed in order for all modular transmitter emissions to comply with FCC limits. It is also	⊠ - YES	□ NO(*)
intended to prevent coupling between the RF circuitry of the module and any wires or circuits in the device into which the module is installed. Such coupling may result in non-compliant	□ - YES	☐ - NO(*)
operation. The physical crystal and tuning capacitors may be located external to the shielded		
radio elements. 15.212(a)(1)(i)		
Detailer revenue. The module contains a motal shield which severe all DE company	sto and aireu	itm. The
Details: <example a="" all="" componer<br="" contains="" covers="" metal="" module="" rf="" shield="" the="" which="" –="">shield is located on the top of the board next to antenna connector&gt;</example>	ns and circui	itry. The
The modular transmitter must have buffered modulation/data inputs (if such inputs are	T	
provided) to ensure that the module will comply with FCC requirements under conditions of	⊠ - YES	☐ - NO(*)
excessive data rates or over-modulation. 15.212(a)(1)(ii)		
Details: <example as="" buffered="" circuit="" data="" described="" in="" is="" modulation="" opera<="" td="" the="" to="" –=""><td>etional descr</td><td>intion</td></example>	etional descr	intion
provided with the application>	inonai deseri	ption
3. The modular transmitter must have its own power supply regulation on the module. This is		
intended to ensure that the module will comply with FCC requirements regardless of the	⊠ - YES	☐ - NO(*)
design of the power supplying circuitry in the device into which the module is installed. 15.212(a)(1)(iii)		
13.212(a)(1)(iii)		
Details: <example -="" contains="" its="" module="" own="" please="" power="" refe<="" regulation.="" supply="" td="" the=""><td>r to schemat</td><td>ic filed with</td></example>	r to schemat	ic filed with
this application>		
4. The modular transmitter must comply with the antenna and transmission system requirements of §§ 15.203, 15.204(b), 15.204(c), 15.212(a), and 2.929(b). The antenna		
requirements of §§ 15.203, 15.204(b), 15.204(c), 15.212(a), and 2.929(b). The antenna must either be permanently attached or employ a "unique" antenna coupler (at all		
connections between the module and the antenna, including the cable). The "professional	⊠ - YES	☐ - NO(*)
installation" provision of § 15.203 is not applicable to modules but can apply to limited		
modular approvals under paragraph 15.212(b). 15.212(a)(1)(iv)		
Details: <example an="" antenna="" connector="" connects="" its="" module="" td="" the="" to="" ufl="" using="" which<="" –=""><td>n is consider</td><td>ed a non-</td></example>	n is consider	ed a non-
standard connector. A list of antennas tested and approved with this device may be for		
provided with the application>		
5. The modular transmitter must be tested in a stand-alone configuration, i.e., the module must		
not be inside another device during testing. This is intended to demonstrate that the module is capable of complying with Part 15 emission limits regardless of the device into which it is		
eventually installed. Unless the transmitter module will be battery powered, it must comply		
with the AC line conducted requirements found in Section 15.207. AC or DC power lines and		
data input/output lines connected to the module must not contain ferrites, unless they will be	⊠ - YES	☐ - NO(*)
marketed with the module (see Section 15.27(a)). The length of these lines shall be length typical of actual use or, if that length is unknown, at least 10 centimeters to insure that there		
is no coupling between the case of the module and supporting equipment. Any accessories,		
peripherals, or support equipment connected to the module during testing shall be unmodified		
or commercially available (see Section 15.31(i)). 15.212(a)(1)(v)		
Details: <example as="" in="" module="" photog<="" setup="" shown="" stand-alone="" td="" test="" tested="" the="" was="" –=""><td>ranhs filed w</td><td>ith this</td></example>	ranhs filed w	ith this

application>

	Modular Approval Requirement	Require	ment 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: 2BEY3LCUR57WWDC" or "Contains FCC ID: 2BEY3LCUR57WWDC" 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.	⊠ - YES	□ - NO(*)
	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="" application.<="" are="" as="" exhibit="" filed="" host="" in="" installation="" instructions="" is="" label="" labeling="" manual="" module="" on="" shown="" specific="" td="" the="" there="" this="" with=""><td></td><td>plication.</td></example>		plication.
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.="" are="" complies="" fcc="" filed="" in="" installation="" instructions="" manual="" module="" part="" provided="" requirements.="" the="" this="" with="" –=""></example>	s to the OEM	l installer
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 module meets RF exposure in mobile configuration.>		

## **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	Requirement Met		
<ol> <li>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.</li> </ol>	☐ - Provided in Separate Cover Letter	⊠ - N/A	
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>			
<ol> <li>For <u>Software Defined Radio (SDR)</u> devices, transmitter module applications must provide a software security description; see KDB Publication 442812.</li> </ol>	☐ - Provided in Separate Cover Letter	⊠ - N/A	
Details: <example a="" –n=""></example>			

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: <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	•				
Is this module intended for sale to third parties?	⊠ - YES	☐ - 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 user manual and the information below must still be included in the operational 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 re	quired 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.					
<ol> <li>List of applicable FCC rules.</li> <li>Only list rules re</li> </ol>	KDB 996369 D03, S lated to the transmit				
point systems, p  3. Limited Module Procedures. A  a. Describe alternate necessary limiting b. When RF expossive that complete the state of the stat	as limits on antennal professional installation (DB 996369 D03, Sective means that the programme of the provided in the method of the provided in the end of the provided in the end of the provided in the end of the provided in the applicable monopole, PIFA, diponer installation in the property of the provided in the applicable monopole, PIFA, diponer installation in the property of the provided in the applicable monopole, PIFA, diponer installation in the property of the provided in the applicable monopole, PIFA, diponer installation in the property of the provided in the applicable monopole, PIFA, diponer in the provided in the provided to the provided in the applicable monopole, PIFA, diponer in the provided in the applicable monopole, PIFA, diponer in the provided in the applicable monopole, PIFA, diponer in the provided in the applicable monopole, PIFA, diponer in the provided in the applicable monopole, PIFA, diponer in the provided in the applicable monopole, PIFA, diponer in the provided in the applicable monopole, PIFA, diponer in the provided in the applicable monopole, PIFA, diponer in the provided in the provided in the applicable monopole, PIFA, diponer in the provided in the provide	as, cable loss, reduction of power for point to on info ection 2.4 grantee uses to verify the host meets the cessary, state how control will be maintained ch as Class II for new hosts, etc. in 2.5 grantee uses to verify the host meets the cessary, state how control will be maintained ch as Class II for new hosts, etc. in 2.5 grants are connectors, isolation requirements, duction test procedures for ensuring and used to keep confidential must be at the operational description. The ection 2.6 grants at allow host manufacturers to use the re necessary: first to the host manufacturer end at allow host product manuals. It is attended to the host product manuals. It is attended to the color, etc. — note that "omni-directional" is not	<ul> <li>☑ - All Items shown to the left are provided in the Modular Integration Guide (or UM) for Full Modular Approval (MA) or LMA.</li> <li>☐ - An LMA applies and is approved ONLY for use by the grantee in their own products, and not intended for sale to 3rd parties as provided in a separate cover letter. Therefore the information shown to the left is found in the</li> </ul>		
"Contains FCC  8. Information on test modes an a. Test modes that clarifications ne	ntegrators that they note in the properties of t	need to provide a physical or e-label stating d product equirements. KDB 996369 D03, Section 2.9 consideration by host integrators including one and simultaneous configurations. Jure test modes for evaluation	the left is found in the theory of operation.		

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