

Request for Modular/Limited Modular Approval

Date:	October 12, 2022					
Subje	ect: Manufacturer's Declaration for	\square - Modular Approval	\square - Split Modular Approval			
		oxtimes - Limited Modular Approval	☐ - Limited S	plit Modula	r Approval	
Mod	ular Request for: 2A4DE-3S001	_				
	8 Bas	sic Requirements – FCC Part 15.212(a)	(1)			
	For Items Marked "NO(*)", the Li	mited Module Description Must be Fi	lled Out on the Fo	ollowing Page	2S	
	Modular Approval Requirement			Requirement Met		
1.	The modular transmitter must have its ow module does not have to rely upon the shinstalled in order for all modular transmit intended to prevent coupling between the in the device into which the module is insoperation. The physical crystal and tuning radio elements. 15.212(a)(1)(i)	nielding provided by the device into wh ter emissions to comply with FCC limit e RF circuitry of the module and any w talled. Such coupling may result in no	hich it is ts. It is also vires or circuits n-compliant	⊠ - YES	□ - NO(*)	
	Details: The module contains a metal shield which covers all RF components and circuitry. Refer to EUT photos.					
2.	The modular transmitter must have buffe provided) to ensure that the module will excessive data rates or over-modulation.	comply with FCC requirements under		⊠ - YES	□ - NO(*)	
	Details: The component number is 88W8	3997				
3.	The modular transmitter must have its over intended to ensure that the module will of design of the power supplying circuitry in 15.212(a)(1)(iii)	comply with FCC requirements regardle	ess of the	⊠ - YES	□ - NO(*)	
	Details: The module contains its own po	wer supply regulation. The compone	nt number is N-PC	СН		
4.	The modular transmitter must comply wir of §§ 15.203, 15.204(b), 15.204(c), 15 permanently attached or employ a "unique module and the antenna, including the cation 15.203 is not applicable to modules but coparagraph 15.212(b). 15.212(a)(1)(iv)	.212(a), and 2.929(b). The antenna mu ue" antenna coupler (at all connection able). The "professional installation" p	ust either be ns between the rovision of §	⊠ - YES	□ - NO(*)	
	Details: The module connects to its antenna using an IPEX MHF 4L(HSC) Connector which is considered a non-standard connector.					
5.	The modular transmitter must be tested in not be inside another device during testing capable of complying with Part 15 emission eventually installed. Unless the transmitt with the AC line conducted requirements data input/output lines connected to the marketed with the module (see Section 1 typical of actual use or, if that length is un no coupling between the case of the module (see Section 1 typical of actual use or, if that length is un no coupling between the case of the module (see Section 1 typical of actual use or, if that length is un no coupling between the case of the module (see Section 1 typical of actual use or, if that length is un no coupling between the case of the module (see Section 1 typical of actual use or, if that length is un no coupling between the case of the module (see Section 1 typical of actual use or, if that length is un no coupling between the case of the module (see Section 1 typical of actual use or, if that length is un no coupling between the case of the module (see Section 1 typical of actual use or, if that length is un no coupling between the case of the module (see Section 1 typical of actual use or, if that length is un no coupling between the case of the module (see Section 1 typical of actual use or, if the typical of actual use or, if typical of actual use or, if typical or ty	ng. This is intended to demonstrate that on limits regardless of the device into the module will be battery powered, it found in Section 15.207. AC or DC power module must not contain ferrites, unlibrated in the section 15.27(a)). The length of these lines shall aknown, at least 10 centimeters to institute the section of the section o	at the module is which it is must comply wer lines and ess they will be length ure that there is	□ - YES	⊠ - NO(*)	



	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: The module was tested installed in the TRIOS 5 host device as shown in test setup photographs filed with that pplication				
	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: There is a label on the module as shown in the labeling exhibit filed with this application. Host specific labeling as shown in the labeling exhibit 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(*)		
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 levels as shown in the SAR test report exhibit information filed with this application				



Limited	Module	Descri	ption –	When A	٩рр	licat	ole
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* 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: The module in this application is installed in the TRIOS 5 device as shown in the information filed with this application.

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 letter filed with this application.	user as described in a separa	ate cover				
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						
Since	erely,						
Ву:							
Senior Regulatory Affairs Specialist Mike Simpson							

(Print name)

(Signature/Title)