

December 14, 2018

RE: U5X-RE307 Request for Limited Modular Approval

To Whom It May Concern:

We hereby request Limited Modular Approval for U5X-RE307 as described under 47 CFR 15.212(b). This device is usable on only a few host devices that have been designed to work with RE307 and RE607 PCB boards. The RE307/RE607 board can operate on its own or with two specific host devices that have unique connectors. In addition, when using the RE307/RE607 in a host device, it is installed into one of the PIR enclosures prior to shipping to customers. This process ensures that only complete units reaches customers. The following pages further describe the compliance of this device with Limited Modular Approval requirements.

Sincerely,

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Paul Saldin Vice President

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Applicar	t/Grantee Alula			
FCC ID: U5X-RE307				
Section 15.212 Modular Transmitters				
Request	for Modular Approval 🛛 🗌 Request for	Limited Modular Approval	\square	
	Requirements	EUT Conditions	Comply (Y/N)	
	Single Modular Appro		Γ	
1	The radio elements of the modular transmitter must have their own shielding. The physical crystal and tuning capacitors may be located external to the shielded radio elements.	Not required for LMA. All tuning components are still on module.	N	
2	The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with Part 15 requirements under conditions of excessive data rates or over-modulation.	Only two binary inputs are accepted from host devices. Data rates are controlled by the module.	Y	
3	The modular transmitter must have its own power supply regulation.	Modular transmitter has its own 3 VDC battery power supply.	Y	
4	The modular transmitter must comply with the antenna and transmission system requirements of Sections 15.203, 15.204(b) and 15.204(c). 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 installation" provision of Section 15.203 is not applicable to modules but can apply to limited modular approvals under paragraph (b) of this section.	The antenna is permanently attached to the board and is not removable.	Y	
5	The modular transmitter must be tested in a stand-alone configuration, <i>i.e.</i> , the module must not be inside another device during testing for compliance with Part 15 requirements. 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 marketed with the module (see Section 15.27(a)). The length of these lines shall be the 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 and commercially available (see Section 15.31(i)).	Not required for LMA. As specified in 15.212(b), the manufacturer must only "demonstrate by alternative means in the application for equipment authorization that the modular transmitter meets all the applicable Part 15 requirements under the operating conditions in which the transmitter will be used." We have done this by testing the device in each host device to show compliance with emission limits and will test in future host devices. Test result details for the device in each host device are in Exhibit I1, Exhibit I2, and Exhibit I3.	Ν	
6	The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.	FCC label will be affixed to the transmitter board inside the host device and a "Contains" label will also be affixed to the outside	Y	

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	(A) If using a permanently affixed label, the modular	of the host device enclosure.				
	transmitter must be labeled with its own FCC	Please see Internal Photos and ID				
	identification number, and, if the FCC identification	Label Photos for details.				
	number 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.					
	(B) 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					
	<i>instructions must be included in the application for equipment authorization.</i>					
7		We have provided instructions in	Y			
1	The modular transmitter must comply with any		1			
	specific rules or operating requirements that	the user manual.				
	ordinarily apply to a complete transmitter and					
	the manufacturer must provide adequate					
	instructions along with the module to explain					
	any such requirements. A copy of these					
	instructions must be included in the application					
	for equipment authorization.					
0		This device is not moont to be	V			
8	The modular transmitter must comply with any	This device is not meant to be	Y			
	applicable RF exposure requirements in its final	used near the body. Details				
	configuration.	explained in RSS-102 SAR and				
		RF Exp Exemption Techincal				
		Brief.				
A limite	d modular approval may be granted for single or	split modular transmitters that do no	t comply with all			
of the above requirements, <i>e.g.</i> , shielding, minimum signaling amplitude, buffered modulation/data inputs, or power supply regulation, if the manufacturer can demonstrate by alternative means in the application for						
equipment authorization that the modular transmitter meets all the applicable Part 15 requirements under the						
operating conditions in which the transmitter will be used. Limited modular approval also may be granted in						
	tances where compliance with RF exposure rules is					
configura	configurations. The applicant for certification must state how control of the end product into which the module					
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will be installed will be maintained such that full compliance of the end product is always ensured.