

Sulfall

December 13, 2018

RE: U5X-RE107 Request for Limited Modular Approval

To Whom It May Concern:

We hereby request Limited Modular Approval for U5X-RE107 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 the RE107 PCB board. The RE107 board can operate on its own or with two specific host devices that have unique connectors. In addition, when using the RE107 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,

Paul Saldin Vice President

Alula

Applica	nt/Grantee	Alula						
FCC ID		U5X-RE10	07					
Section 15.212 Modular Transmitters								
Request for Modular Approval Request for				Limited Modular Approval				
		Require	ements	EUT Conditions	Comply (Y/N)			
Single Modular Approval Requirements								
1	must have the crystal and t	eir own shie uning capaci	e modular transmitter elding. The physical itors may be located 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 power suppl		must have its own	Modular transmitter has its own 3 VDC battery power supply.	Y			
4	antenna and of Sections 1. The antenna attached or e (at all conne antenna, inclinstallation" applicable to modular appsection.	transmission 15.203, 15.20 must either employ a "ur ctions betwe luding the ca provision of modules bu rovals under	must comply with the a system requirements 04(b) and 15.204(c). be permanently an antenna coupler ten the module and the able). The "professional of Section 15.203 is not at can apply to limited a paragraph (b) of this	The antenna is permanently attached to the board and is not removable.	Y			
5	stand-alone of not be inside compliance of the transmitt it must comprequirements DC power liconnected to ferrites, unle module (see these lines shade or, if that centimeters to between the equipment. A support equiduring testing	configurations another device another device with Part 15 are module wolly with the stand data of the module ess they will. Section 15.2 hall be the left length is unto insure that case of the rang accessor pment conneg shall be un	must be tested in a n, <i>i.e.</i> , the module must vice during testing for requirements. Unless vill be battery powered, AC line conducted ection 15.207. AC or input/output lines must not contain be marketed with the 27(a)). The length of ength typical of actual nknown, at least 10 there is no coupling module and supporting ries, peripherals, or ected to the module modified and (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.	N			
6	commercially available (see Section 15.31(i)).  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 the transmitter daughter board inside the host device and will also be affixed to the outside of	Y			

	(A) If using a permanently affixed label, the modular	the host device enclosure. Please	1
	transmitter must be labeled with its own FCC	see Internal Photos and ID Label	
	identification number, and, if the FCC identification	Photos for details.	
	number is not visible when the module is installed inside	Thotos for details.	
	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  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		
	instructions must be included in the application for		
	equipment authorization.		
7	The modular transmitter must comply with any	We have provided instructions in	Y
	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.		
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.	
1 10 01			

A **limited modular approval** may be granted for single or split modular transmitters that do not comply with all of the above requirements, *e.g.*, 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 those instances where compliance with RF exposure rules is demonstrated only for particular product configurations. The applicant for certification must state how control of the end product into which the module will be installed will be maintained such that full compliance of the end product is always ensured.