

Wireless Security Solutions

Resolution Products, Inc. 1402 Heggen St. Hudson, WI 54016 715-808-0164

December 15, 2014

RE: U5X-RE213 Request for Limited Modular Approval

To Whom It May Concern:

We hereby request Limited Modular Approval for U5X-RE213 as described under 47 CFR 15.212(b). This device is usable on only a few host devices. Installation of module into completed device is under full control and done before shipping to the customer. The following pages describe the compliance of this device with the requirements.

Sincerely,

Paul Saldin Vice President

Resolution Products, Inc.

	nt/Grantee Resolution Products, Inc					
FCC ID: U5X-RE213						
Section 15.212 Modular Transmitters						
Request	,	est for Limited Modular Approval				
	Requirements	EUT Conditions	Comply (Y/N)			
1		Approval Requirements	*7			
1	The radio elements of the modular	Not required for LMA	Y			
	transmitter must have their own					
	shielding. The physical crystal and					
	tuning capacitors may be located external to the shielded radio elements.					
2	The modular transmitter must have	N/A - These inputs are not provided	Y			
2	buffered modulation/data inputs (if such	1 N/A - These inputs are not provided	1			
	inputs are provided) to ensure that the					
	module will comply with Part 15					
	requirements under conditions of					
	excessive data rates or over-modulation.					
3	The modular transmitter must have its	Not required for LMA	Y			
	own power supply regulation.					
4	The modular transmitter must comply	The antenna is permanently attached to	Y			
	with the antenna and transmission	the board and is not removable.				
	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.					
5	The modular transmitter must be tested	Not required for LMA. As specified in	Y			
	in a stand-alone configuration, <i>i.e.</i> , the	15.212(b), the manufacturer must only				
	module must not be inside another	"demonstrate by alternative				
	device during testing for compliance	means in the application for				
	with Part 15 requirements. Unless the	equipment authorization that the				
	transmitter module will be battery	modular transmitter meets all the				
	powered, it must comply with the AC	applicable Part 15 requirements				
	line conducted requirements found in	under the operating conditions in				
	Section 15.207. AC or DC power lines and data input/output lines connected to	which the transmitter will be used."				
	the module must not contain ferrites,	We have done this by testing the device				
	unless they will be marketed with the	in the host with which it will be used.				
	module (see Section 15.27(a)). The	This is the ONLY host that may be used				
	length of these lines shall be the length	with this device.				
	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,					

module during testing shall be unmodified and commercially available (see Section 15.31(i)). 6 The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number. (A) If using a permanently affixed label, the modular transmitter must be labeled with its own FCC identification number, and, if the FCC identification 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." 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, 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.		or support againment connected to the		
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1 (R) It the modular transmitter uses an electronic 1				
		(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.			W 1 111 11 11 11 11 11 11 11 11 11 11 11	X 7
7 The modular transmitter must comply We have provided instructions in the Y	/	1	1	Y
with any specific rules or operating user manual.		1	user manual.	
requirements that		-		
ordinarily apply to a complete		1 2 2 2 2		
transmitter and the manufacturer must				
provide adequate instructions along with		1.5		
the module to explain any such	1			
requirements. A copy of these		1		
instructions must be included in the		requirements. A copy of these		
application for equipment authorization.		1 -		
8 The modular transmitter must comply N/A - this device is not meant to be used Y		instructions must be included in the		

with any applicable RF exposure	near the body	
requirements in its final configuration.		

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.