Applicant/Grantee Crosby Engineering Ser			neering Servic	ees			
FCC ID: X2R-RFM2530A							
Section 15.212 Modular Transmitters							
Request	for Modular	Approval	Requ	est for Limited Modular Approval			
		Requirements		EUT Conditions	Comply (Y/N)		
				Approval Requirements			
1	The radio ele	ements of the m		The EUT is equipped with a metal shield	Y		
	transmitter must have their own			covering all components except for the			
	shielding. The physical crystal and		stal and	antenna			
		eitors may be lo					
		he shielded radi					
2	The modular	transmitter mu	ıst have	All inputs to the module are buffered	Y		
	buffered mod	dulation/data in	puts (if such	through microprocessor (logic level)			
		ovided) to ensu	• '	inputs			
		comply with Pa					
		s under condition					
	_	ta rates or over					
3	The modular	transmitter mu	ist have its	The module has an on-board 1.8V	Y		
	own power supply regulation.		on.	voltage regulator	ļ		
4	The modular	transmitter mu	ıst comply	The module has an integral (permanently	Y		
	with the ante	enna and transm	nission	attached) antenna as described in the			
	system requi	irements of Sec	tions 15.203,	User's Manual.			
	15.204(b) an	nd 15.204(c). Tl	he antenna				
	must either b	be permanently	attached or				
	employ a "ui	nique" antenna	coupler (at				
	all connection	ons between the	module and				
	the antenna,	including the c	able). The				
	"professiona	l installation" p	provision of				
		03 is not applic					
		can apply to lin					
		rovals under pa	aragraph (b)				
	of this sectio						
5		r transmitter mu		The module was tested on a generic	Y		
		one configurati		"base board" representative of a sample			
		t not be inside a		"host" device with trace lengths			
		g testing for co	-	representative of the maximum length			
		requirements.		expected in an actual host device. There			
		nodule will be l		were no ferrites installed on this board.			
	-	must comply wi					
		ed requirement					
		07. AC or DC 1	<u> </u>				
	_	ut/output lines					
		nust not contain					
	_	will be markete					
	·	Section 15.27(
	_	ese lines shall be	_				
	• •	tual use or, if th	_				
	,	least 10 centin					
	insure that there is no coupling between the case of the module and supporting		-				
	the case of the	ne 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)).		
6	The modular transmitter must be	A label will be attached to the top of the	Y
	equipped with either a permanently	A label will be attached to the top of the metal shield of each radio supplied.	*
		_ 	
	affixed label or must be capable of	Since this label would not typically be	
	electronically displaying its FCC	visible in a host product, there are	
	identification number.	instructions on the labeling requirements	
	(A) If using a permanently affixed label, the modular transmitter must be labeled with its own	for the host product supplied in the OEM	
	FCC identification number, and, if the FCC	Installation Guide and the User's	
	identification number is not visible when the	Manual.	
	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 instructions		
	must be included in the application for		
	equipment authorization.		
7	The modular transmitter must comply	The RFM2530 Users Manual describes	Y
	with any specific rules or operating	the installation requirements for a host	
	requirements that	products, provides a sample schematic	
	ordinarily apply to a complete	and a description of the usage and	
	transmitter and the manufacturer must	configuration of the module I/O pins.	
	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	Y
	with any applicable RF exposure	
	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.