Applicant/Grantee Rabbit Semiconductor Incorporated – A Digi International Company							
FCC ID: VCB-E59C4472							
Section 15.212 Modular Transmitters							
Request	for Modular	Approval     R	equest for Limited Modular Approval				
		Requirements	EUT Conditions	Comply (Y/N)			
Single Modular Approval Requirements							
1	The radio ele	ements of the modular	The modular device is equipped with	Y			
	transmitter n	nust have their own	metal shielding to cover the RF section.				
	shielding. Th	ne physical crystal and	Please refer to Figures 1, 2 & 3.				
	tuning capac	eitors may be located					
	external to the	ne shielded radio elements	i.				
2		transmitter must have	All inputs to the module are buffered	Y			
		dulation/data inputs (if suc	through logic or microprocessor inputs.				
		ovided) to ensure that the					
		comply with Part 15					
	_	s under conditions of					
		ta rates or over-modulatio					
3		transmitter must have its	1	Y			
	own power s	supply regulation.	device uses its own 2.8V and 3.3V				
			voltage regulators. Please refer to Figure				
4	Tl 11	. 4	4.	<b>X</b> 7			
4		transmitter must comply enna and transmission		Y			
			equipped with unique RPSMA				
	-	rements of Sections 15.20 at 15.204(c). The antenna	onnectors. Please refer to Figure 5.				
		be permanently attached or	r				
		nique" antenna coupler (at					
		ons between the module an					
		including the cable). The					
		l installation" provision of	f				
		03 is not applicable to					
		can apply to limited					
	modular app	rovals under paragraph (b	)				
	of this sectio	n.					
5	The modular	transmitter must be tested	d The modular device was tested in a	Y			
		one configuration, i.e., the					
		t not be inside another	of another board which supplied only				
		g testing for compliance	physical support and power connections.				
		requirements. Unless the	Please see Figure 6.				
		nodule will be battery					
	_	nust comply with the AC					
		ed requirements found in					
		07. AC or DC power lines					
	_	ut/output lines connected t	iu				
		must not contain ferrites, will be marketed with the					
		Section 15.27(a)). The					
		se lines shall be the length					
		tual use or, if that length is					
		least 10 centimeters to	3				
	unknown, at	reast to cellulliciets 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)).		
6	The modular transmitter must be	The modular device has its FCC	Y
	equipped with either a permanently	identification number printed on the	
	affixed label or must be capable of	PCB. Please see Figure 7. Another label	
	electronically displaying its FCC	is to be placed externally on any system	
	identification number.	into which the module is installed.	
	(A) If using a permanently affixed label, the	Figure 8 shows this labeling requirement	
	modular transmitter must be labeled with its own	recommendation which is stated in the	
	FCC identification number, and, if the FCC identification number is not visible when the	User's 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		
	must display a label rejerring 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	Please Refer to the "OEM User's	Y
	with any specific rules or operating	Manual" supplied separately.	
	requirements that ordinarily apply to a		
	complete transmitter and the		
	manufacturer must provide adequate		
	instructions along with the module to		
	explain any such requirements. A copy		
1	of these instructions must be included in		

	the application for equipment authorization.		
8	The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	Calculated Maximum Permissible Exposure is within limits. Please see Report 08U11724-2, Revision A.	Y

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.



Figure 1 – RCM54XXW top view showing shield and antenna



Figure 2 - RCM54XXW Bottom View



Figure 3 - Close up without shield cover

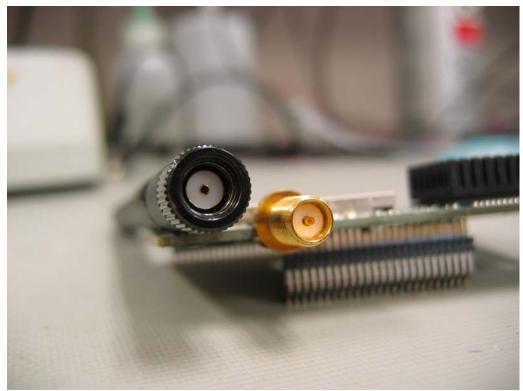


Figure 4 - Unique RPSMA antenna connector



Figure 5 - Stand alone configuration for testing



Figure 6 - PCB Labeling

## Labeling Requirements (FCC 15.19)

## FCC ID: VCB-E59C4472

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.



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 or the device must be capable of displaying the FCC identification number electronically. This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: VCB-E59C4472" or "Contains FCC ID: VCB-E59C4472." Any similar wording that expresses the same meaning may be used.

Figure 7 - Labeling Requirements