Annlica	Applicant/Grantee Atheros Communications Inc.						
Applicant/Grantee Atheros Communications Inc FCC ID: PPD- AR6103			mc.				
Section 15.212 Modular Transmitters							
Request for Modular Approval Request for Limited Modular Approval							
Request	IOI WIOGUIAI	Requirements	EUT Conditions	Comply (Y/N)			
				Compty (1714)			
Single Modular Approval Requirements  1 The radio elements of the modular SiP package has a full Y							
1		nust have their own	Metallic coating.	1			
		ne physical crystal and	Wictame coating.				
		itors may be located					
		ne shielded radio elements.					
2		transmitter must have	All inputs to the modules	Y			
		dulation/data inputs (if suc		•			
		ovided) to ensure that the	or microprocessor inputs.				
		comply with Part 15	or interoprocessor inputs.				
		s under conditions of					
		ta rates or over-modulation	1.				
3		transmitter must have its	The transmitter has	Y			
		supply regulation.	its own power supply	_			
	F - · · ·		regulator.				
4	The modular	transmitter must comply	Device complies with 15.203 &	Y			
		enna and transmission	15.204(c) via a permanent trace between	1			
	system requi	rements of Sections 15.203	` '				
		d 15.204(c). The antenna	connector or integrated antenna.				
		be permanently attached or					
	employ a "ur	nique" antenna coupler (at					
	all connectio	ons between the module and	1				
	the antenna,	including the cable). The					
		l installation" provision of					
		03 is not applicable to					
		can apply to limited					
		rovals under paragraph (b)					
	of this sectio						
5		transmitter must be tested		Y			
		one configuration, <i>i.e.</i> , the	the host for modular				
		t not be inside another	approval. Refer to setup				
		g testing for compliance	photos.				
		requirements. Unless the					
		nodule will be battery					
	± '	nust comply with the AC					
		ed requirements found in					
		07. AC or DC power lines					
	_	ut/output lines connected to	,				
		nust 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					
		nere is no coupling between					
	moure mai u	icic is no coupling between	1				

	<u>,                                      </u>		
	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		
	equipped with either a permanently	SiP package is too small to affix	
	affixed label or must be capable of	label or readable text with FCCID.	
	electronically displaying its FCC	label of readable text with FCCID.	
	identification number.	For different construction of the	
	(A) If using a permanently affixed label, the	End Integrators are instructed to	
	modular transmitter must be labeled with its owr	label host device with the required	
	FCC identification number, and, if the FCC	text: Contains FCC ID: PPD-AR6103	
	identification number is not visible when the	and to instruct where to find	
	module is installed inside another device, then the outside of the device into which the module i	the FCCID on the product.	
	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 copyof these instructions		
	must be included in the application for		
	equipment authorization.		Υ
	The modular transmitter must comply		
7	with requirements that		
	ordinarily apply to a complete	Refer to "Instuctions to OEM	
	transmitter and the manufacturer must	Integrators".	
	provide adequate in <b>st</b> uctions 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	Transmitter meets	Y
	with any applicable RF exposure	RF Exposure requirements.	
	requirements in its final configuration.	of Refer to submitted test reports.	
		•	

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.