Applicant/Grantee Atheros Communications Inc.									
FCC ID		PPD- ARS42, PPD-ARS4							
Section 15.212 Modular Transmitters									
Request	Request for Modular Approval Request for Limited Modular Approval								
riequest		Requirements	EUT Conditions	Comply (Y/N)					
	Single Modular Approval Requirements								
1	The radio ele	ements of the modular	Device is equipped with	Y					
1	transmitter must have their own		Metal shielding to cover	•					
		he physical crystal and	RF section. Refer to						
	tuning capacitors may be located		external photos						
	external to the shielded radio elements.		_						
2	The modular	r transmitter must have	All inputs to the modules	Y					
	buffered modulation/data inputs (if such								
		rovided) to ensure that the	or microprocessor inputs.						
	module will	comply with Part 15							
	requirements under conditions of								
	excessive da	ata rates or over-modulation	n.						
3	The modular	r transmitter must have its	The transmitter has	Y					
	own power s	supply regulation.	its own power supply						
			regulator.						
4	The modular	r transmitter must comply	Device is equipped with	Y					
		enna and transmission	unique antenna (u.FL(v)-						
		irements of Sections 15.203							
		nd 15.204(c). The antenna	to external photos						
		be permanently attached or							
		nique" antenna coupler (at							
		ons between the module and	d						
		including the cable). The							
	-	al installation" provision of							
		203 is not applicable to							
		can apply to limited							
		orovals under paragraph (b)							
	of this section		D	*7					
5		r transmitter must be tested		Y					
		one configuration, <i>i.e.</i> , the t not be inside another	the laptop for modular approval. Refer to setup						
		g testing for compliance	photos.						
		requirements. Unless the	photos.						
		nodule will be battery							
		must comply with the AC							
	-	ed requirements found in							
		207. AC or DC power lines							
		ut/output lines connected to							
	_	must not contain ferrites,							
		will be marketed with the							
	_	Section 15.27(a)). The							
		ese lines shall be the length							
	_	tual use or, if that length is							
		least 10 centimeters to							
		here is no coupling between	1						

	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)).	T IFCCIPILIE	T 7
6	The modular transmitter must be	Two proposed FCC ID label format	Y
	equipped with either a permanently	are included in the filing. One label	
	affixed label or must be capable of	is to be placed on the module and the	
	electronically displaying its FCC	other label is to be placed on the	
	identification number.	outside of system. Refer to FCC ID	
	(A) If using a permanently affixed label, the	label format and location file.	
	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" 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	Refer to "User's Guide" Exhibit	Y
	with any specific rules or operating		
	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		
	of these instructions must be included in		
	the application for equipment		
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	authorization.		
8	The modular transmitter must comply	Transmitter tested compliance for	Y
	with any applicable RF exposure	modular SAR. Refer to SAR test	
	requirements in its final configuration.	report.	

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.

