Annlica	nt/Grantee	Atheros Communications Ir	ne.					
FCC ID		PPD- AR5BXB112	ic.					
Section 15.212 Modular Transmitters								
Request for Modular Approval Request for Limited Modular Approval								
Request	lor Modular	Requirements	EUT Conditions	Comply (Y/N)				
		•	Approval Requirements	Comply (1/11)				
1	The radio ele	ements of the modular	Device is equipped with Y					
1	transmitter must have their own		Metal shielding to cover	1				
	shielding. The physical crystal and		RF section. Refer to					
	tuning capacitors may be located		external photos					
	external to the shielded radio elements.		external photos					
2		r transmitter must have	All inputs to the modules	Y				
	buffered modulation/data inputs (if such		are buffered through logic	•				
	inputs are provided) to ensure that the		or microprocessor inputs.					
		comply with Part 15	or interoprocessor inputs.					
	requirements under conditions of							
	excessive data rates or over-modulation.							
3		r transmitter must have its	The transmitter has	Y				
	own power supply regulation.		its own power supply					
	1		regulator.					
4	The modular	r transmitter must comply	Device is equipped with	Y				
		enna and transmission	unique antenna ( u.FL(v)-					
	system requi	irements of Sections 15.203,	LP-040) connector. Refer					
	15.204(b) an	nd 15.204(c). The antenna	to external photos					
		be permanently attached or	-					
	employ a "u	nique" antenna coupler (at						
	all connection	ons between the module and						
	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 section							
5		r transmitter must be tested	Device was tested outside	Y				
		one configuration, <i>i.e.</i> , the	the laptop for modular					
		t not be inside another	approval. Refer to setup					
		g testing for compliance	photos.					
		requirements. Unless the						
		nodule will be battery						
	-	must comply with the AC						
		ed requirements found in						
		.07. AC or DC power lines						
		ut/output lines connected to						
		must not contain ferrites,						
		will be marketed with the						
	,	Section 15.27(a)). The see lines shall be the length						
	_	tual use or, if that length is						
		least 10 centimeters to						
	msure that th	nere 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 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" 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 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.	Two proposed FCC ID label format are included in the filing. One label is to be placed on the module and the other label is to be placed on the outside of system. Refer to FCC ID label format and location file.	Y
7	The modular transmitter must comply 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	Refer to "User's Guide" Exhibit	Y

	application for equipment authorization.		
8	The modular transmitter must comply	Transmitter meets	Y
	with any applicable RF exposure	MPE calculations	
	requirements in its final configuration.	of 47 CFR 1.1307(b)(1).	
		Refer to MPE section of the 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.