

Applican	t/Grantee	Atr	nel Norway	AS	
FCC ID:		VW	/4A092201		
		Sc	ection 15.	212 Modular Transmitters	
Request for Single Modular Approval			Request for Lin Single Modular appro		
SI. No	Requi	irements		EUT Conditions	Comply (Y/N)
01	The radio elements of the modular transmitter must have their own Shielding. The physical crystal and tuning capacitors may be located external to the shielded radio elements			The Module has its own shielding.	Υ
02	The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with Part 15 requirements under conditions of excessive data rates or overmodulation			All Modulation and data input(s) are buffered. Refer block diagram and schematic diagram.	Υ
03	The modular transmitter must have its Own power supply regulation.			The AT86RF212B IC has internal power supply regulator of 1.8V, that is used to power the Radio core	Υ
04	The modular transmitter must comply with the antenna and transmission system requirements of Sections 15.203, 15.204(b) and 15.204(c). The antenna must either be permanently attached or employ a "unique" antenna coupler (at all connections between the module and The antenna, including the cable). The "professional installation" provision of Section 15.203 is not applicable to modules but can apply to limited Modular approvals under paragraph (b) of this section.			The Antenna connector is a unique connector. Please refer FCC response at the end of this document	Y
05	The mo	ndular transmitter mu			Y



module must not be inside another device during testing for compliance With Part 15 requirements. Unless the transmitter module will be battery powered, it must comply with the AC line conducted requirements found in Section 15.207. AC or DC power lines and data input/output lines connected to the module must not contain ferrites, unless they will be marketed with the Module (see Section 15.27(a)). The length of these lines shall be the length typical of actual use or, if that length is unknown, at least 10 centimeters to insure that there is no coupling
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is unknown, at least 10 centimeters to insure that there is no coupling
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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)).
The modular transmitter must be Refer Zigbit RF212B User Manual
equipped with either a permanently document.
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
06 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
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		
	<u> </u>		
	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.		
	The modular transmitter must	. D. (7'. ! !! DE040D	
	comply	Refer Zigbit RF212B	
	with any specific rules or operating	User Manual document.	
	requirements that ordinarily apply to		
	a complete transmitter and the		
07	manufacturer must provide		Υ
	adequate instructions along with the		1
	module to explain any such		
	Requirements. A copy of these		
	Instructions must be included in the		
	application for equipment		
	authorization.		
	The modular transmitter must		
	comply		
08	with any applicable RF exposure		Υ
	requirements in its final		•
	•		
	configuration		



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

Sincerely,

Saravanakumar Marudhachalam

Manager, Tools HW development