

## 研華科技股份有限公司

## Advantech Co., Ltd.

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## Request for full transmitter modular approval

FCC ID: M82-ART-310

	FCC ID. IVI82-		
the organization	cant/Grantee Advantech		
FCC I	Service of the programme reference and the programme of t		94000
	Section 15.212 Modular	Transmitters	
Reque	est for Modular Approval	Request for Limited Modular Approval	
	Requirements	EUT Conditions	Comply (Y/N)
	Single Modular Approval	Requirements	
1	The radio elements of the modular transmitter	The radio element of the	Yes
	must have their own shielding. The physical	modular transmitter is	
	crystal and tuning capacitors may be located	implementing a metal for	
	external to the shielded radio elements.	shielding	
2	The modular transmitter must have buffered	The buffer is located in	Yes
	modulation/data inputs (if such inputs are	schematic in U22,U23,U24	
	provided) to ensure that the module will		
	comply with Part 15 requirements under conditions of excessive data rates or		
	over-modulation.		
3	The modular transmitter must have its own	Chin III 0 11 12 and in novyon	Yes
0	power supply regulation.	Chip U10,11,12 are in power	100
		supply regulation.	
4	The modular transmitter must comply with the	The antenna is an unique	Yes
	antenna and transmission system	connector (inverse SMA), it is	
	requirements of Sections 15.203, 15.204(b) and 15.204(c). The antenna must either be	comply with the antenna and transmission system	
	permanently attached or employ a "unique"	requirements of Sections	
	antenna coupler (at all connections between	15.203, 15.204(b) and	
	the module and the antenna, including the	15.204(c).	
	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.		
5	The modular transmitter must be tested in a	The modular transmitter is	Yes
	stand-alone configuration, i.e., the module	tested in a stand-alone	
	must not be inside another device during	configuration	
	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	1	
	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 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)).		
	available (see Section 19.31(1)).		

7	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." 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.  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 application for equipment authorization.	The modular transmitter will be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.  A copy of these instructions will be included in the application for equipment authorization.	Yes
8	The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	The modular transmitter will comply with any applicable RF exposure requirements.	Yes

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.

DEC	LARED	BY:
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2011/12/20

Date

Name (print)

