

400 Oyster Point Blvd Suite 414 South San Francisco, CA 94080 T (650) 754-6661

W www.wattiq.io

E info@wattiq.io

Request for Modular/Limited Modular Approval

2025-02-03			
Date:			
Subject: Manufacturer's Declaration for X - Modular Approval □ - Limited Modular Approval	☐ - Split Modula ☐ - Limited Spli		Approval
Confidentiality Request for: <u>2AECNIH-303</u>			
8 Basic Requirements – FCC Part 15.212(a)(` '	· D	
For Items Marked "NO(*)", the Limited Module Description Must be Fil Modular Approval Requirement	led Out on the Followi		ement Met
The modular transmitter must have its own RF shielding. This is intended to ensure that the me to rely upon the shielding provided by the device into which it is installed in order for all mode emissions to comply with FCC limits. It is also intended to prevent coupling between the RF c module and any wires or circuits in the device into which the module is installed. Such coupling non-compliant operation. The physical crystal and tuning capacitors may be located external telements. 15.212(a)(1)(i)	ular transmitter circuitry of the ng may result in	X - YES	□ - NO(*)
Details: The Zigbee MCU radio and Power Amplifier are contained in a metal shield which is located on the top of the board next to the printed Printed Circuit board (PCB) antenna	covers all RF compone	ents and circuit	try. The shield
The modular transmitter must have buffered modulation/data inputs (if such inputs are provide module will comply with FCC requirements under conditions of excessive data rates or over-n 15.212(a)(1)(ii)		X - YES	□ - NO(*)
Details: Data to the modulation circuit is buffered by the Zigbee stack 802.15.4 standard			
3. The modular transmitter must have its own power supply regulation on the module. This is into the module will comply with FCC requirements regardless of the design of the power supplying device into which the module is installed. 15.212(a)(1)(iii)		X - YES	□ - NO(*)
Details: The module contains its own isolated power supply limited to 1 W. Please refer to the state of the s	re schematic filed with	this application	<i>t</i> .



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4.	The modular transmitter must comply with the antenna and transmission system requirements of §§ 15.203, 15.204(b), 15.204(c), 15.212(a), and 2.929(b). 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 § 15.203 is not applicable to modules but can apply to limited modular approvals under paragraph 15.212(b). 15.212(a)(1)(iv)	X - YES	□ - NO(*)
	Details: Antenna is an Inverted F antenna design (IFA) as part of the Printed Circuit board (PCB) layout.		
5.	The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing. This is intended to demonstrate that the module is capable of complying with Part 15 emission limits regardless of the device into which it is eventually installed. 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 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 or commercially available (see Section 15.31(i)). 15.212(a)(1)(v)	X - YES	□ - NO(*)
	Details: The module was tested stand-alone as shown in test setup photographs filed with this application		

	Modular Approval Requirement	Require	ement Met
1.	The modular transmitter must be labeled with its own FCC ID number, or use an electron display (see KDB Publication 784748). If using a permanently affixed label with its own FCC ID number, if the FCC ID 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	Require X - YES	ement Met
	equipment authorization. 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. 15.212(a)(1)(vi)		



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	Model: IH-303 WATT IQ WWW.wattiq.io FCC ID 2AECNP1-303 IC ID 269th 4903		
2.	The modular transmitter must comply with all specific rule or operating requirements applicable to the transmitter, including all the conditions provided in the integration instructions by the grantee. A copy of these instructions must be included in the application for equipment authorization. For example, there are very strict operational and timing requirements that must be met before a transmitter is authorized for operation under Section 15.231. For instance, data transmission is prohibited, except for operation under Section 15.231(e), in which case there are separate field strength level and timing requirements. Compliance with these requirements must be assured. 15.212(a)(1)(vii)	X - YES	□ - NO(*)
	Details: The module complies with FCC Part 15C requirements. Instructions to the installation engr Datasheet filed with this application	are provided	in the
3.	The modular transmitter must comply with any applicable RF exposure requirements. For example, FCC Rules in Sections 2.1091, 2.1093 and specific Sections of Part 15, including 15.319(i), 15.407(f), 15.253(f) and 15.255(g), require that Unlicensed PCS, UNII and millimeter wave devices perform routine environmental evaluation for RF Exposure to demonstrate compliance. In addition, spread spectrum transmitters operating under Section 15.247 are required to address RF Exposure compliance in accordance with Section 15.247(b)(4). Modular transmitters approved under other Sections of Part 15, when necessary, may also need to address certain RF Exposure concerns, typically by providing specific installation and operating instructions for users, installers and other interested parties to ensure compliance. 15.212(a)(1)(viii)	X - YES	□ - NO(*)
	Details: The module meets exclusion levels as shown in the RF exposure information filed with this appropriate the second of the	pplication.	

Limited Module Description – When Applicable

Details: <N/A>

^{*} If a module does NOT meet one or more of the above 8 requirements, the applicant may request Limited Modular Approval (LMA). This Limited Modular Approval (LMA) is applied with the understanding that the applicant will demonstrate and will retain control over the final installation of the device, such that compliance of the end product is always assured. The operating condition(s) for the LMA; the module is only approved for use when installed in devices produced by grantee. A description regarding how control of the end product, into which the module will be installed, will be maintained by the applicant/manufacturer, such that full compliance of the end product is always ensured should be provided here.



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Software Considerations – KDB 594280 / KDB 442812 (One of the following 2 items must be applied)			
Requirement	Requirement Met		
 For non-Software Defined Radio transmitter modules where software is used to ensure compliance of the device, technical description must be provided about how such control is implemented to ensure prevention of third-party modification; see KDB Publication 594280. 	☐ - Provided in Separate Cover Letter	X - N/A	
Details: <n a=""></n>			
 For <u>Software Defined Radio (SDR)</u> devices, transmitter module applications must provide a software security description; see KDB Publication 442812. 	- Provided in Separate Cover Letter	X - N/A	
Details: <n a=""></n>			

Split Modular Requirements			
Requirement	Provided in Manual		
 For split modular transmitters, specific descriptions for secure communications between front-end and control sections, including authentication and restrictions on third-party modifications; also, instructions to third-party integrators on how control is maintained. 	☐ - Provided in Separate Cover Letter	X - N/A	
Details: <n a=""></n>			



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	OEM Integration Manual C	Guidance – KDB 996369 D03 Section 2		
Clear and Specific Instructions Describing the Conditions, Limitations, and Procedures				
		integrate the module into a host device.		
Requirement				
		X - No,		
		If No, and LMA applies, the applicant can optionally		
		detailed info public. However there still needs to be		
Is this module intended for sale to third	□ - YES	users manual and the information below must stil		
parties?		description. If the applicant wishes to keep this inference separate statement cover letter explaining the module		
		that integration instructions are internal co		
		that integration histractions are internal or	omdenial documents.	
	Items required to be in the m	anual – See KDB 996369 D03, Section 2		
As of May 1, 2019, the FCC requires ALL	the following information to be in	the installation manual. Modular transmitter applicant	s should include information in	
		applicable. For example information on trace antenna		
		not intended for sale to third parties, the user instruction		
	and the following items can be placed in the operational description, but this should include a cover letter as cited above. 1. List of applicable FCC rules. KDB 996369 D03, Section 2.2			
List of applicable FCC rules. KDB 996. a. Only list rules related				
a. Only list fules lefated	to the transmitter.			
2. Summarize the specific operational use				
installation info				
3. Limited Module Procedures. KDB 9963		d I a a d I I W IV		
		the host meets the necessary limiting conditions atrol will be maintained such that compliance is ensured,	X- All Items shown to the left	
such as Class II for n	2.7	into will be maintained such that comphance is ensured,	are provided in the Modular	
4. Trace antenna designs. KDB 996369 De			Integration Guide (or UM) for	
		plation requirements, tests for design verification, and	Full Modular Approval (MA)	
		onfidential, the method used to keep confidential must be	or LMA.	
	ation provided in the operational des	scription.		
5. RF exposure considerations. KDB 9963			☐ - An LMA applies and is	
		nufacturers to use the module. Two types of instructions ditions (mobile, portable – xx cm from body) and second	approved ONLY for use by the	
	d to be provided to the end user in th		grantee in their own products,	
6. Antennas. KDB 996369 D03, Section 2.		to nost product mandais.	and not intended for sale to 3 rd	
		able professional installer instructions when applicable.	parties as provided in a separate cover letter. Therefore the	
The antenna list shall	also identify the antenna types (mor	nopole, PIFA, dipole, etc – note that "omni-directional" is	information shown to the left is	
not considered a type			found in the theory of	
Label and compliance information. KDI			operation.	
	ators that they need to provide a phy	sical or e-label stating "Contains FCC ID: " with their		
finished product 8. Information on test modes and additional	Ltagting requirements VDD 006260	DO2 Section 2.0		
		st integrators including clarifications necessary for		
	stand-alone and simultaneous configurations.			
9. Additional testing, Part 15 Subpart B dis	claimer. KDB 996369 D03, Section	2.10		
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Sincerely,

2025-02-03

By:

Priya Vijayakumar Priya Vijayakumar

Audit trail

Details	
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SIGNED	Signed by Priya Vijayakumar (priya@wattiq.io)	2025/02/03 22:14:41 UTC
COMPLETED	This document has been signed by all signers and is complete	2025/02/03 22:14:41 UTC

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