



研華股份有限公司

Advantech Co Ltd.

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[www.advantech.com](http://www.advantech.com)

### Declaration of the Modular Approval

<b>Applicant / Grantee</b>	<b>Advantech Co Ltd / Lily Huang</b>
<b>FCC ID:</b>	<b>M82-AIW-173</b>
<b>Model:</b>	<b>AIW-173LQ-GI1, AIW-173LQ-GI2, AIW-173BQ-GI1, AIW-173BQ-GI2, AIW-173HQ-GI1 and AIW-173HQ-GI2</b>

**The single module transmitter has been evaluated then tested meeting the requirements under Part 15C Section 2.12 as below:**

<b>Modular approval requirement</b>	<b>EUT Condition</b>	<b>Comply</b>
(a) 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 radio portion of this module has been shielded, please see exhibition External	Yes
(b) 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 over-modulation.	The EUT has buffered data inputs, it is integrated in chip WCN-7851	Yes
(c) The modular transmitter must have its own power supply regulation.	The part number of this regulator is WCN-7851	Yes
(d) 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 EUT meets the FCC antenna requirements. The spurious emission, unique antenna connector and photo of antennas are shown in the test report.	Yes
(e) The modular transmitter must be tested in a stand-alone configuration, i.e., the 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,	The EUT was tested in a stand-alone configuration via a PCIE extender. Please see section Photographs of Test Configuration in the test report, the EUT was plugged in this extender.	Yes



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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)) must not be inside another device during testing.		
(f) The modular transmitter must be equipped with either a permanently affixed label or must be capable of electronically displaying its FCC identification number.	Please see exhibition Label Sample for the FCC ID of this module. And also in the exhibition user manual, there are instructions give to the OEM on how to label the end product.	Yes
(g) 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 requirements, which are based on the intended use/configurations.	The BUT is compliant with all applicable FCC rules. Detail instructions for maintaining compliance are give in the user manual.	Yes
(h) The modular transmitter must comply with any applicable RF exposure requirements in its final configuration.	The EUT is compliant with all applicable RF exposure requirements. RF exposure is addressed in the RF exposure exhibition.	Yes

(Signature)

Name/Title: Lily Huang / Manager

Company Name: Advantech Co Ltd

Address: No. 1, Alley 20, Lane 26, Rueiguang Road Neihu District, Taipei, Taiwan 114

DATE: 2025/04/02