

## RF Test Report

Applicant : Winmate Inc.  
Product Name : Intel Wi-Fi 6E AX210 Module  
Trade Name : Intel  
Model Number : AX210NGW  
Applicable Standard : FCC 47 CFR PART 15 SUBPART C  
ANSI C63.10:2013  
Received Date : Jan. 01, 2024  
Issued Date : Feb. 21, 2024

### Issued by

Eurofins E&E Wireless Taiwan Co., Ltd.  
No. 140-1, Changan Street, Bade District,  
Taoyuan City 334025, Taiwan (R.O.C.)  
Tel : +886-3-2710188 / Fax : +886-3-2710190  
Taiwan Accreditation Foundation accreditation number: 1330  
Frequency Range: 9 kHz to 325 GHz  
Bade test site :  
Test Firm Registration Number: 226252  
Test Firm Designation Number: TW0010  
Wugu test site :  
Test Firm Registration Number: 191812  
Test Firm Designation Number: TW0034



### Note:

1. The test results are valid only for samples provided by customers and under the test conditions described in this report.
2. This report shall not be reproduced except in full, without the written approval of Eurofins E&E Wireless Taiwan Co., Ltd.
3. The relevant information is provided by customers in this test report. According to the correctness, appropriateness or completeness of the information provided by the customer, if there is any doubt or error in the information which affects the validity of the test results, the laboratory does not take the responsibility.

### Revision History

Rev.	Issued Date	Description	Revised by
00	Feb. 21, 2024	Initial Issue	Snow Wang

## Verification of Compliance

Applicant : Winmate Inc.

Product Name : Intel Wi-Fi 6E AX210 Module

Trade Name : Intel

Model Number : AX210NGW

FCC ID : PX9AX210

Applicable Standard : FCC 47 CFR PART 15 SUBPART C  
 ANSI C63.10:2013

Test Result : Complied

Performing Lab. : Eurofins E&E Wireless Taiwan Co., Ltd.  
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Taiwan Accreditation Foundation accreditation number: 1330



Eurofins E&E Wireless Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Eurofins E&E Wireless Taiwan Co., Ltd. based on interpretations and/or observations of test results. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Approved By : \_\_\_\_\_

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# 1 General Information

## 1.1. Summary of Test Result

Standard	Item	Result	Remark
15.207	AC Power Conducted Emission	N/A	Note
15.247(d)	Transmitter Radiated Emissions	N/A	Note
15.247(b)(3)	Max. Output Power	N/A	Note
15.247(a)(2)	6 dB RF Bandwidth	N/A	Note
15.247(e)	Maximum Power Spectral Density	N/A	Note
15.247(d)	Out of Band Conducted Spurious Emission	N/A	Note
15.203	Antenna Requirement	N/A	Note

Note: No need for verification.

### Decision Rule

- Uncertainty is not included.
- Uncertainty is included.

Standard	Description
CFR47, Part 15, Subpart C	Intentional Radiators
ANSI C63. 10: 2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074 D01 15.247 Meas Guidance v05r02	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES
KDB 662911 D01 v02r01	Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc)

## 2 EUT Description

The product specifications of the EUT presented in the report are declared by the manufacturer who shall take full responsibility for the authenticity(except Max. RF Output Power).

Applicant	Winmate Inc. 9F, No.111-6, Shing-De Rd., San-Chung District, New Taipei City 241, Taiwan			
Product Name	Intel Wi-Fi 6E AX210 Module			
Trade Name	Intel			
Model Number	AX210NGW			
FCC ID	PX9AX210			
Host Information	Product Name: Rugged Tablet PC Trade Name: Winmate Model Name: M101AD, M101XXXXXXXXXXXX ("X"= A~Z,a~z,0~9,"-" Blank or Slash for marketing purpose only, no impact safety related constructions or critical components)			
Operate Freq. Band	Frequency Range (MHz)	Modulation	Channel Bandwidth	Data Rate (ns)
802.11b	2412 ~ 2472	DSSS	20 MHz	Up to 11 Mbps
802.11g	2412 ~ 2472	OFDM	20 MHz	Up to 54 Mbps
802.11n HT20	2412 ~ 2472	OFDM (64QAM)	20 MHz	Up to 144.4 Mbps
802.11n HT40	2422 ~ 2462	OFDM (64QAM)	40 MHz	Up to 300 Mbps
802.11ax HE20	2412 ~ 2472	OFDMA	20 MHz	Up to 286.8 Mbps
802.11ax HE40	2422 ~ 2462	OFDMA	40 MHz	Up to 873.5 Mbps
Antenna information	ANT	Model Number	Type	Max. Gain (dBi)
	Main	90RF0900001X	PIFA	2.29
	Aux	90RF06000021	PIFA	1.14
Antenna Delivery	See section 3.1			
Operate Temp. Range	-20 ~ +60 °C			
EUT Power Rating	19.0 Vdc, 3.42 A			

WIFI 2.4G

BW 20M	CH	1	2	3	4	5	6	7	8	9	10	11	12	13
	Freq. (MHz)	2412	2417	2422	2427	2432	2437	2442	2447	2452	2457	2462	2467	2472
BW 40M	CH	NA		3	4	5	6	7	8	9	10	11	NA	
	Freq. (MHz)			2422	2427	2432	2437	2442	2447	2452	2457	2462		

EUT Modify Description :

Modify Description:  
 Additional chassis added, model number: M101AD, M101XXXXXXXXXXXX ("X"= A~Z,a~z,0~9,"-" Blank or Slash for marketing purpose only, no impact safety related constructions or critical components)  
 Models differences: All models are electrically identical, different model names are for marketing purpose.

Add one antenna which have the same antenna type as original grant, and each antenna gain is lower.

Unable WLAN 5G and WIFI-6E function by firmware, and there are no WLAN 5G and WIFI-6E driver installed in the system. Host requires professional installation and cannot be modified by end users.

After the evaluation, retest of all test items is not required.

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