

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.
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

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 : _____

TABLE OF CONTENTS

1	General Information.....	5
	1.1. Summary of Test Result.....	5
2	EUT Description.....	6

1 General Information

1.1. Summary of Test Result

Standard	Item	Result	Remark
15.207	AC Power Conducted Emission	N/A	Note
15.203	Antenna Requirement	N/A	Note
15.247(b)(1)	Max. Output Power	N/A	Note
15.247(d)	Transmitter Radiated Emissions	N/A	Note
15.247(a)(1)	20 dB RF Bandwidth	N/A	Note
15.247(a)(1)	Carrier Frequency Separation	N/A	Note
15.247(a)(1)(iii)	Number of Hopping	N/A	Note
15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	N/A	Note
15.247(d)	Out of Band Conducted Spurious Emission	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
DA 00-705	Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems

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)	
Frequency Range	2402 ~ 2480 MHz	
Modulation Type	GFSK for 1 Mbps	
	π/4-DQPSK for 2 Mbps	
	8DPSK for 3 Mbps	
Operate Temp. Range	-20 ~ +60 °C	
EUT Power Rating	19.0 Vdc, 3.42 A	
Antenna information	Type	Max. Gain (dBi)
	PIFA	1.14

CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)	CH	Freq. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
19	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	---	---

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.

---END---