



中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



RF EXPOSURE EVALUATION

Applicant: Iconnect

Address: No.9, Aly. 58, Ln. 112, Ruiguang Rd., Neihu Dist., Taipei City, Taiwan

FCC ID: 2AB877921

Product Name: 11ax Module

**Standard(s): 47 CFR §1.1307,
47 CFR §2.1091
447498 D04 Interim General RF Exposure Guidance
v01**

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: 2403S73093E-RF-00FA1

Date Of Issue: 2025/7/18

Reviewed By: Calvin Chen

Title: RF Engineer

Approved By: Sun Zhong

Title: Manager

Test Laboratory: China Certification ICT Co., Ltd (Dongguan)
No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China

Tel: +86-769-83085888

www.ccttt.com.cn

Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

This report cannot be reproduced except in full, without prior written approval of the Company.

This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

This report may contain data that are not covered by the accreditation scope and shall be marked with an asterisk “★”.

Each test item follows the test standard(s) without deviation.

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2403S73093E-RF-00FA1	Original Report	2025/7/18

Note:

This is an application for adding a new equipment class to the existing FCC ID: 2AB877921.

The differences between the original device (FCC Grant Date: 07/18/2024) and the current version are as follows:

Based on the original hardware design, the 6GHz Wi-Fi function has been enabled via software, without any hardware modifications.

GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	11ax Module
EUT Model:	AWM27921EU
Multiple Model:	AWM27921U, AWM27921BU, AMLGA7921, AMST7921, AMST7921U, AWSP7921U, AWM27921XX, AMLGA7921XX, AMST7921XX, AWSP7921XX (X: Any alphanumeric character or blank)
Rated Input Voltage:	3.3V DC from Debug board
Sample Number:	2KOD-1 (2.4G/5G Wi-Fi) 2XX1-1 (6G Wi-Fi)
EUT Received Date:	2024/4/28 (2.4G/5G Wi-Fi) 2025/1/24 (6G Wi-Fi)
EUT Received Status:	Good
Note: The multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer.	

1. RF EXPOSURE EVALUATION

2.1 Applicable Standard

According to §1.1307(b)(3)(i)

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source frequency (MHz)	Threshold ERP (watts)
0.3-1.34	$1,920 R^2$.
1.34-30	$3,450 R^2/f^2$.
30-300	$3.83 R^2$.
300-1,500	$0.0128 R^2 f$.
1,500-100,000	$19.2 R^2$.

2.2 Measurement Result

Radio	Frequency (MHz)	$\lambda/2\pi$ (mm)	Distance (mm)	Exemption ERP (mW)	Maximum Conducted Power including Tune-up Tolerance (dBm)	Antenna Gain (dBi)	ERP		MPE-Based Exemption
							dBm	mW	
2.4G Wi-Fi	2412-2462	19.81	200	768	21	1.76	20.61	115.08	Compliant
5.2G Wi-Fi	5180-5240	9.22	200	768	14	1.33	13.18	20.80	Compliant
5.3G Wi-Fi	5260-5320	9.08	200	768	14.5	1.47	13.82	24.10	Compliant
5.6G Wi-Fi	5500-5720	8.69	200	768	15	1.2	14.05	25.41	Compliant
5.8G Wi-Fi	5745-5825	8.32	200	768	14	0.03	11.88	15.42	Compliant
6.4G Wi-Fi	5955-6415	8.02	200	768	7	2.40	7.25	5.31	Compliant
6.5G Wi-Fi	6435-6515	7.42	200	768	7	2.40	7.25	5.31	Compliant
6.8G Wi-Fi	6535-6855	7.31	200	768	7	2.40	7.25	5.31	Compliant
7G Wi-Fi	6875-7095	6.93	200	768	7	2.40	7.25	5.31	Compliant

Note:

1. The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.
2. The 2.4G Wi-Fi and 5G Wi-Fi and 6GHz Wi-Fi cannot transmit simultaneously.

Result: The device compliant the MPE-Based Exemption at 20cm distances.

2. EUT PHOTOGRAPHS

Please refer to the attachment 2403S73093E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and
2403S73093E-RF-INP EUT INTERNAL PHOTOGRAPHS

===== END OF REPORT =====