



MAXIMUM PERMISSIBLE EXPOSURE **EVALUATION REPORT**

Applicant: SHENZHEN IP-COM NETWORKS CO.,LTD.

Unit A, First Floor, Tower E3, No. 1001, Zhongshanyuan Road,

Nanshan District, Shenzhen, China. 518052

Product Name: AX1500 Wi-Fi 6 Dual-Band Gigabit Ceiling AP

FCC ID: 2ABZM-PRO6MINI

47 CFR §1.1310, 47 CFR §2.1091, **Standard(s):**

47 CFR §15.247(i), 47 CFR §15.407(f)

Report Number: 2402W89283E-RF-00D

Report Date: 2024/9/2

The above device has been tested and found compliant with the requirement of the relative standards by Bay Area Compliance Laboratories Corp. (Dongguan).

Ganin Xn

Reviewed By: Gavin Xu **Approved By:** Ivan Cao

> Title: RF Engineer Title: EMC Manager

from Cas

Bay Area Compliance Laboratories Corp. (Dongguan)

No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, China

Tel: +86-769-86858888 Fax: +86-769-86858891

www.baclcorp.com.cn

Note: The information marked ▲ is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. 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 ★.This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

CONTENTS

DOCUMENT REVISION HISTORY	3
1. GENERAL INFORMATION	4
1.1 GENERAL DESCRIPTION OF EQUIPMENT UNDER TEST	
2. RF EXPOSURE EVALUATION (MPE)	5
2.1.1 Applicable Standard	5
2.1.3 Calculated Data:	6
EXHIBIT A - EUT PHOTOGRAPHS	

DOCUMENT REVISION HISTORY

Revision Number Report Number		Description of Revision	Date of Revision	
1.0	2402W89283E-RF-00D	Original Report	2024/9/2	

Report Template Version: FCC §2.1091-V1.0 Page 3 of 7

1. GENERAL INFORMATION

1.1 General Description Of Equipment under Test

EUT Name: AX1500 Wi-Fi 6 Dual-Band Gigabit Ceiling AP		
EUT Model:	Pro-6-Mini	
Rated Input Voltage:	DC 24V from POE or DC 48V from 802.3af POE	
EUT Received Date:	2024/8/9	
EUT Received Status:	Good	

Report No.: 2402W89283E-RF-00D

Report Template Version: FCC §2.1091-V1.0 Page 4 of 7

2. RF EXPOSURE EVALUATION (MPE)

2.1 RF Exposure Evaluation

2.1.1 Applicable Standard

According to subpart 15.247(i) ,15.407(f)and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Report No.: 2402W89283E-RF-00D

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure						
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minutes)		
0.3–1.34	614	1.63	*(100)	30		
1.34–30	824/f	2.19/f	*(180/f²)	30		
30–300	27.5	0.073	0.2	30		
300-1500	/	/	f/1500	30		
1500-100,000	/	/	1.0	30		

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

2.1.2 Calculation formula:

Prediction of power density at the distance of the applicable MPE limit

 $S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_{i} \frac{S_{i}}{S_{Limit,i}} \le 1$$

2.1.3 Calculated Data:

Operation Modes	Frequency (MHz)	Antenna Gain Conducted power incl Tune-t Tolerar		including ne-up	Evaluation Distance (cm)	Power Density (mW/cm²)	MPE Limit (mW/cm²)	
		(dBi)	(numeric)	(dBm)	(mW)			
2.4G Wifi	2412-2462	7.25	5.31	25	316.23	20.00	0.334	1.0
5.2G Wifi	5150-5250	7.13	5.16	19	79.43	20.00	0.082	1.0
5.8G Wifi	5725-5850	7.26	5.32	19.5	89.13	20.00	0.094	1.0

Note:

The Conducted output power including Tune-up Tolerance provided by manufacturer.

The antenna gain was the maximum directional gain(in beamformming mode)

The WLAN 2.4G and 5G can't transmit simultaneously.

Result: Compliant. The device compliant Simultaneous transmission at 20cm distances.

Report Template Version: FCC §2.1091-V1.0

Report No.: 2402W89283E-RF-00D

EXHIBIT A - EUT PHOTOGRAPHS

Please refer to the attachment 2402W89283E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2402W89283E-RF-INP EUT INTERNAL PHOTOGRAPHS.

***** END OF REPORT *****

Report Template Version: FCC §2.1091-V1.0 Page 7 of 7