



RADIO EXPOSURE TEST REPORT

FCC ID : HEDEAP105S

Equipment : Wi-Fi 7 Access Point

Brand Name : Edgecore

Model Name : EAP105sXXXXZ
(Please refer to section 1.3 for detailed information)

Applicant : Accton Technology Corporation
No. 1, Zhihui 1st Rd., Zhubei City , Hsinchu County 302 Taiwan

Manufacturer : Edgecore Networks Corporation
3F., No.1, Creation Rd. 3, Hsinchu Science Park, Hsinchu City
300, Taiwan

Standard : 47 CFR Part 2.1091

The product was received on May 26, 2026, and testing was started from Jun. 02, 2026 and completed on Aug. 29, 2026. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in 47 CFR Part 2.1091 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 EUT General Information	5
1.2 Antenna Information	6
1.3 Table for Multiple Listing	9
1.4 Table for Radio Function	9
1.5 Accessories	9
1.6 Testing Location	10
2 Maximum Permissible Exposure	11
2.1 Limit of Maximum Permissible Exposure	11
2.2 MPE Calculation Method.....	11
2.3 Calculated Result and Limit.....	12

Photographs of EUT v01



History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A1_1 Ver1.1

Page Number : 3 of 12
Issued Date : Oct. 08, 2026
Report Version : 01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
2	-	Exposure evaluation	PASS	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen

Report Producer: Muse Chan



1 General Description

1.1 EUT General Information

RF General Information			
Evaluation Mode	Frequency Range (MHz)	Operating Frequency (MHz)	Modulation Type
2.4GHz WLAN	2400-2483.5	2412-2462	802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) VHT: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
5GHz WLAN	5150-5250 5250-5350 5470-5725 5725-5850	5180-5250 5250-5320 5500-5720 5745-5825	802.11a/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
6GHz WLAN	5925-7125	5955-7115	802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
Bluetooth	2400-2483.5	2402-2480	LE: GFSK



1.2 Antenna Information

Ant.	Port				Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Remark
	2.4GHz	5GHz	6GHz	Bluetooth						
1	1	-	-	-	ACCTON Technology Corporation	A8M8M-800000-2G1	Omni	I-PEX	Note 1	Radio 1
2	2	-	-	-	ACCTON Technology Corporation	A8M8M-800000-2G2	Omni	I-PEX		
3	-	1	-	-	ACCTON Technology Corporation	A8M8M-800000-5G1	Omni	I-PEX		Radio 2
4	-	2	-	-	ACCTON Technology Corporation	A8M8M-800000-5G2	Omni	I-PEX		
5	-	-	1	-	ACCTON Technology Corporation	A8M8M-800000-6G1	Omni	I-PEX		Radio 3
6	-	-	2	-	ACCTON Technology Corporation	A8M8M-800000-6G2	Omni	I-PEX		
7	-	-	-	-	ACCTON Technology Corporation	A8M8P-100266	Omni	I-PEX		Radio 4
8	-	-	-	-	ACCTON Technology Corporation	A8M8P-100267	Omni	I-PEX		
9	-	-	-	1	ACCTON Technology Corporation	GT128V007S-001	Omni	N/A		Radio 5



Note 1:

Antenna Gain (dBi)							
Ant.	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Scanning radio			Bluetooth
				WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	
1	5.31	-	-	-	-	-	-
2	5.25	-	-	-	-	-	-
3	-	6.42	-	-	-	-	-
4	-	6.76	-	-	-	-	-
5	-	-	6.88	-	-	-	-
6	-	-	6.83	-	-	-	-
7	-	-	-	5.58	5.43	5.26	-
8	-	-	-	5.52	5.33	5.77	-
9	-	-	-	-	-	-	3.71

Note 2: The above information was declared by manufacturer.

Note 3: Directional gain information

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{ANT}} \left(\sum_{k=1}^{N_{ANT}} g_{j,k} \right)^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20} ; NSS1(g1,3) = 10^{G3/20} ; NSS1(g1,4) = 10^{G4/20}$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2) + NSS1(g1,3) + NSS1(g1,4))^2 / N_{ANT}] => 10$$

$$\log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$$

Where ;

2.4G G1= 5.31 dBi ; G2= 5.25 dBi ;

5G UNII-1 G1 = 6.42 dBi; G2 = 6.76 dBi;

5G UNII-2A G1 = 6.42 dBi; G2 = 6.76 dBi;

5G UNII-2C G1 = 6.42 dBi; G2 = 6.76 dBi;

5G UNII-3 G1 = 6.42 dBi; G2 = 6.76 dBi;

2.4G DG = 8.29 dBi

5G UNII-1 DG = 9.6 dBi

5G UNII-2A G1 = 9.6 dBi

5G UNII-2C G1 = 9.6 dBi

5G UNII-3 DG = 9.6 dBi

<Radio 1>

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/2RX)

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

<Radio 2>

For 5GHz function:

For IEEE 802.11a/n/ac/ax/be mode (2TX/2RX)

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

<Radio 3>

For 6GHz function:

For IEEE 802.11ax/be mode (2TX/2RX)

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

**<Scan Radio 4>****For Scanning radio:****2.4GHz IEEE 802.11 b/g/n/VHT/ax/be mode (2RX)****5GHz IEEE 802.11a/n/ac/ax/be mode (2RX)****6GHz IEEE 802.11ax/be mode (2RX)**

Ant.7 and Ant.8 can be used as receiving antenna.

Ant.7 and Ant.8 could receive simultaneously.

<Radio 5>**For Bluetooth function:****For Bluetooth mode (1TX/1RX):**

Only Port 1 can be used as transmitting/receiving antenna.

1.3 Table for Multiple Listing

Equipment Name	Brand Name	Model Name	Description
Wi-Fi 7 Access Point	Edgecore	EAP105sXYYYYZ	The difference of "XYYYYZ" would be marketing strategy: X can be symbol "(" or "blank" Y can be "A~Z, a~z, 1~9 or blank and -" Z can be symbol ")" or "blank"

Note 1: From the above models, model: EAP105s was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

1.4 Table for Radio Function

Radio (R)	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth	Remark
R1	✓	-	-	-	TX/RX
R2	-	✓	-	-	TX/RX
R3	-	-	✓	-	TX/RX
R4 (Scan radio)	✓	✓	✓	-	Only RX
R5	-	-	-	✓	TX/RX

Note: The above information was declared by manufacturer.

1.5 Accessories

Accessories
Bracket*1



1.6 Testing Location

Testing Location Information	
Test Lab. : Sporton International Inc. Hsinchu Laboratory	
Hsinchu	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)
(TAF: 3787)	TEL: 886-3-656-9065 FAX: 886-3-656-9085
	Test site Designation No. TW3787 with FCC.
	Conformity Assessment Body Identifier (CABID) TW3787 with ISED.



2 Maximum Permissible Exposure

2.1 Limit of Maximum Permissible Exposure

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	*(100)	<6
3.0-30	1842/f	4.89/f	*(900/f ²)	<6
30-300	61.4	0.163	1.0	<6
300-1500	-	-	f/300	<6
1500-100,000	-	-	5	<6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<30
30-300	27.5	0.073	0.2	<30
300-1500	-	-	f/1500	<30
1500-100,000	-	-	1.0	<30

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

2.2 MPE Calculation Method

The MPE was calculated at 27 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d}$$

$$\text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

E = Electric field (V/m)

P = RF output power (W)

G = EUT Antenna numeric gain (numeric)

d = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$



2.3 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
2.4G;D1D	8.29	27.20	35.49	0.50	35.99	27	0.43357	1.00000	0.43357
5.2G;D1D	9.60	26.35	35.95	0.04	35.99	27	0.43357	1.00000	0.43357
5.3G;D1D	9.60	20.35	29.95	0.02	29.97	27	0.10841	1.00000	0.10841
5.6G;D1D	9.60	20.31	29.91	0.06	29.97	27	0.10841	1.00000	0.10841
5.8G;D1D	9.60	26.36	35.96	0.03	35.99	27	0.43357	1.00000	0.43357
6.2G;D1D	-	-	26.89	0.50	27.39	27	0.05985	1.00000	0.05985
6.4G;D1D	-	-	26.32	0.50	26.82	27	0.05249	1.00000	0.05249
6.7G;D1D	-	-	25.74	0.50	26.24	27	0.04593	1.00000	0.04593
7.0G;D1D	-	-	24.37	0.50	24.87	27	0.03350	1.00000	0.0335
2.4G;BT-LE	3.71	4.38	8.09	0.50	8.59	27	0.00079	1.00000	0.00079

Simultaneous Transmission Analysis Mode: WLAN 2.4GHz + WLAN 5GHz + WLAN 6GHz + Bluetooth

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
2.4G;D1D	8.29	27.20	35.49	0.50	35.99	27	0.43357	1.00000	0.43357
5.8G;D1D	9.60	26.36	35.96	0.03	35.99	27	0.43357	1.00000	0.43357
6.2G;D1D	-	-	26.89	0.50	27.39	27	0.05985	1.00000	0.05985
2.4G;BT-LE	3.71	4.38	8.09	0.50	8.59	27	0.00079	1.00000	0.00079
Sum S/Limit Ratio	0.92778								
Ratio Limit	1								

—THE END—