

TEST REPORT

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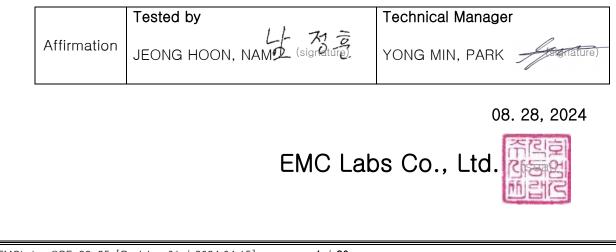
Test Report

1. Client

• Name: • Address:	WIZNET Co., Ltd. 5F Humax Village, 216, Hwangsaeul-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea
2. Use of Report :	FCC
3. Sample Description :	
• Model	W6100-EVB-Pico2
Kind of Product	iEthernet Module
· Variant Model Name	-
4. Date of Receipt :	2024. 08. 05
5. Date of Test :	2024. 08. 24 ~ 2024. 08. 27
6. Test Method :	FCC part 15 subpart A, Class A / IC
7. Test Results :	Complied

* The results shown in this test report are the results of testing the samples provided.

* This test report is prepared according to the requirements of ISO / IEC 17025.



EMCLabs-QPF-26-25 [Revision_01 / 2024.04.15]

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1. Laboratory Information

Address

EMC Labs Co., Ltd.

Laboratory Telephone Number Facsimile Number : 100, Jangjateo-ro, Hobeop-myeon, Icheon-si, Gyeonggi-do, 17396, Korea : +82-31-637-8895 : +82-505-116-8895

SITE MAP



2. Equipment Under Test

2.1 General Information

 \square Table-Top \square Floor – Standing

Table-Top & Floor-Standing (combination)

2.2 Configuration of the equipment under test

Equipment	Model	Serial No.			
Note PC	Note PC P5440F ASUSTek Computer Inc.				
Adapter (Note PC)	ADP-65GD	ASUSTek Computer Inc.	-		

Туре	Description	Description Connection		Length (m)
USB	Type-C	Note PC	USB	1.0
USB	LAN	Note PC	LAN	3.0

2.3 EUT Description

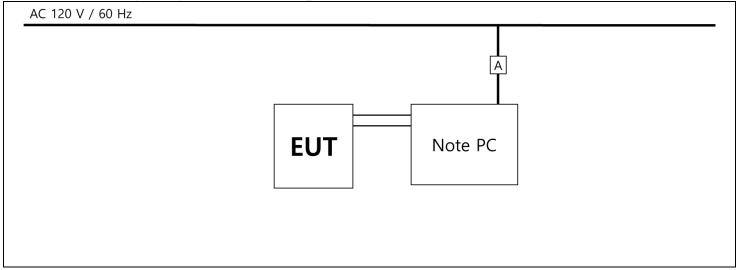
The following features describe EUT represented by this report Test Voltage : AC 120 V / 60 Hz EUT Highest operating frequency: Below 108 MHz Model Name: Clium Cleaner Fit V1

2.4 Operating Conditions

The equipment under test was operated during the measurement under following

Test mode	Normal Operating
1	The EUT power was turned on and tested after checking the operation status through the Note PC.

2.5 The drawing of general test setup



2.6 Variant Model

Variant model name	Differences from the basic mode		
_	-		

3. Summary

In the above configuration tested, The EUT complied with the requirement of the specification

3.1 Modification to the E.U.T.

- No modifications to the EUT were necessary to comply.

3.2 Standards & results

FCC Part 15 Subpart A (Class A) $\label{eq:ansatz} ANSI \ C63.4 - 2014, \ ANSI \ C63.4a - 2017$

Test items	Test method	Result
Radiated Emission	FCC part 15 subpart A ANSI C63.4 – 2014 ANSI C63.4a – 2017	Pass
Conducted Emission	FCC part 15 subpart A ANSI C63.4 – 2014 ANSI C63.4a – 2017	Pass

4. Test results

4.1 Radiated emission

Environmental Conditions	
Temperature	(°C) - Semi anechoic chamber (3m)
	(22.3 °C) - Fully anechoic chamber($10m$)
Humidity	(% R.H.) - Semi anechoic chamber (3m)
	(45 % R.H.) - Fully anechoic chamber(10m)
Test Area	Semi anechoic chamber (3m) – Below 1GHz
	Fully anechoic chamber(10m) – Above 1GHz
Test date	0000.00.00 - Semi anechoic chamber (3m)
	2024.08.24 - Fully anechoic chamber(10m)

4.1.1 Measurement procedure

The test was done at a 3 m fully anechoic chamber test site with a quasi-peak detector.

EUT was placed on a non-metallic table height of 0.8 m above the reference ground plane.

They were folded back and forth forming a bundle 0.3 m to 0.4 m long and were hanged at a 0.4 m height to the ground plane.

Cables connected to EUT were fixed to cause maximum emission.

Test was made with the antenna positioned in both the horizontal and vertical planes of polarization.

The measurement antenna was varied in height above the conducting ground plane to obtain the maximum signal strength.

4.1.2 Used equipments

[Below 1GHz]

Equipment	Model no	Manufacturer	Serial no.	Next cal. date	Used
MEASUREMENT SOFTWARE	EMC32 VER 10.60.15	Rohde&Schwarz	-	-	\square
EMI TEST RECEIVER	ESW44	Rohde&Schwarz	101952	2025.03.14	\boxtimes
Controllers	CO3000-4port	Innco Systems GmbHRE	CO3000/ 1061/ 42111117/P	-	
Antenna Masts	MA4640/800-XP-ET	Innco Systems GmbHRE	-	-	\boxtimes
Turn tables	DS2000-S-1t	Innco Systems GmbHRE	-	-	
Bi-Log ANT.	VULB 9160	Schwarzbeck	3260	2025.02.03	\square
Amplifier	PO-LS960	PANOPTICS	PL181004	2025.01.28	\square

[Above 1GHz]

Equipment	Model no	Manufacturer	Serial no.	Next cal. date	Used
MEASUREMENT SOFTWARE	EMC32 VER 10.60.15	Rohde&Schwarz	-	-	
EMI TEST RECEIVER	ESW44	Rohde&Schwarz	101952	2025.03.14	
Controllers	CO3000-4port	Innco Systems GmbHRE	CO3000/ 1061/ 42111117/P	-	
Antenna Masts	MA4640/800-XP-ET	Innco Systems GmbHRE	-	-	
Turn tables	DS2000-S-1t	Innco Systems GmbHRE	-	-	
Horn ANT	BBHA9120D	Schwarzbeck	974	2024.11.30	
Amplifier	TK-PA18H	TESTEK	220104-L	2025.05.27	

4.1.3 Test data

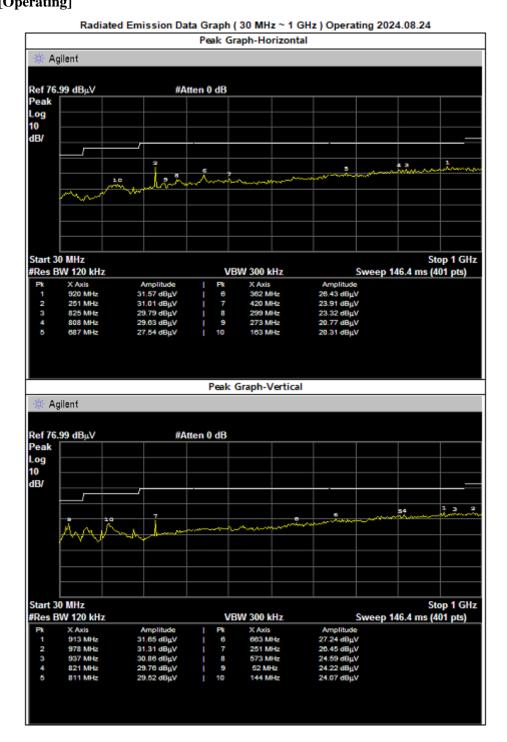
- * Receiving Antenna Mode : Horizontal, Vertical
- * 3 m Chamber
- * Note : Reading = Test Receiver meter,

Pol.= Polarization \rightarrow H = Horizontal, V = Vertical

Result $[dB(\mu N/m)] =$ Reading $[dB(\mu N)] +$ Antenna factor [dB/m] + Cable Loss [dB] - Amp Gain [dB]

If, in accordance with §15.33 of this part, measurements must be performed above 1000 MHz, compliance above 1000 MHz shall be demonstrated with the emission limit in paragraph (a) or (b) of this section, as appropriate. Measurements above 1000 MHz may be performed at the distance specified in the CISPR 32 publications for measurements below 1000 MHz provided the limits in paragraphs (a) and (b) of this section are extrapolated to the new measurement distance using an inverse linear distance extrapolation factor (20 dB/decade)

4.1.4 Test Result [Below 1GHz] – [Operating]



* Test Result

 \boxtimes Complied

□ Not complied

EMCLabs-QPF-26-25 [Revision_01 / 2024.04.15]

제품명 : iEthernet Module

모델명 : W6100-EVB-Pico2 제조사 : ㈜위즈네트

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Г	-	-	

Frequency	Total		Height	angle	angle Quasi-Peak -	Correction		Limits	Result	Margin	
riequency	Reading	Pol,	ricigni	angie	Quasi i cak	Antenna	Cable	Amp Gain	Linits	nesuit	Margin
[MHz]	[dB #V/m]		[m]	[°]	[dB,#V/m]	[dB/m]	[dB]	[dB]	[dB,#V/m]	[dBµV/m]	[dB]
51,49	50,40	V	1,0	310	(25,14)	13,70	2,59	41,43	39,0	25,26	13,74
143,23	47,10	V	1.4	152	(22,92)	13,10	5,09	41,11	43,5	24,18	19,32
250,41	43,80	V	2,5	219	(15,65)	17,90	7,20	40,75	46.4	28,15	18,25
686,17	35,10	Н	3,7	241	(6,87)	21,96	13,49	42,32	46,4	28,23	18,17
824,54	35,60	Н	3,8	13	(4,88)	22,58	15,19	42,65	46,4	30,72	15,68
919,43	35,25	Н	4.0	210	(3,41)	23,58	16,10	43,10	46,4	31,84	14,56

측정일 : 2024,08,24

모 드 : Operating

* Test Result

 \boxtimes Complied

□ Not complied

[Above 1GHz]

- Not applicable because the highest frequency of EUT is less than 108 MHz.

* Test Result

 \Box Complied \boxtimes Not complied

4.2 Conducted Emission

Environmental Conditions

Temperature	(22.5 °C)
Humidity	(45 % R.H.)
Test Area	Conducted Room
Test date	2024.08.26

4.2.1 Limits of conducted emission measurement

Frequency	Class A (dl	BuV)	Class B (dBuV)		
[MHz]	Quasi-peak	Average	Quasi-peak	Average	
0.15 - 0.5	79	66	66-56 *	58-46*	
0.5 - 5	73	60	56	46	
5 - 30	73	60	60	50	

*The limit decreases linearly with the logarithm of frequency.

4.2.2 Measurement procedure

Mains

The measurements were performed in a shielded room. EUT was placed on a non-metallic table height of 0.8 m above the reference ground plane. The rear of table was located 0.4 m to the vertical conducted plane. EUT was power through the LISN, which was bonded to the ground plane. The LISN power was filtered. Each EUT power lead, except ground (safety) lead, was individually connected through a LISN to input power source. All I.O cables are positioned to simulate typical actual usage according to the test standard. Both lines of power cord, hot and neutral, were measured.

4.2.3 Used equipments

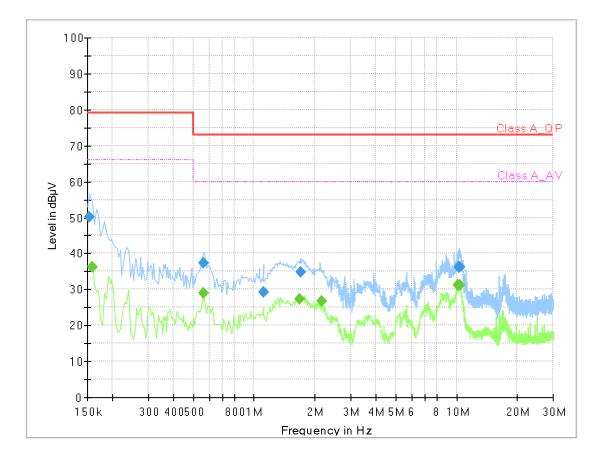
Equipment	Model	Manufacturer	Serial or Firmware (No./Ver.)	Next Cal. Date	Used
MEASUREMENT SOFTWARE	EMC32 VER 10.60.15	Rohde&Schwarz	-	-	\boxtimes
Test Receiver	ESR7	Rohde&Schwarz	101616	2025.06.27	\boxtimes
LISN	ENV216	Rohde&Schwarz	100409	2025.01.04	\square
LISN	3825-2	EMCO	8901-1458	2025.01.04	
PULSE LIMITER	EPL-30	lignex1	-	2025.01.04	\square

4.2.4 Test data

• Note. QP = Quasi-Peak, AV= Average, • Loss = LISN Loss + Cable Loss, • Measurement time : 1 s

4.2.5 Test Result

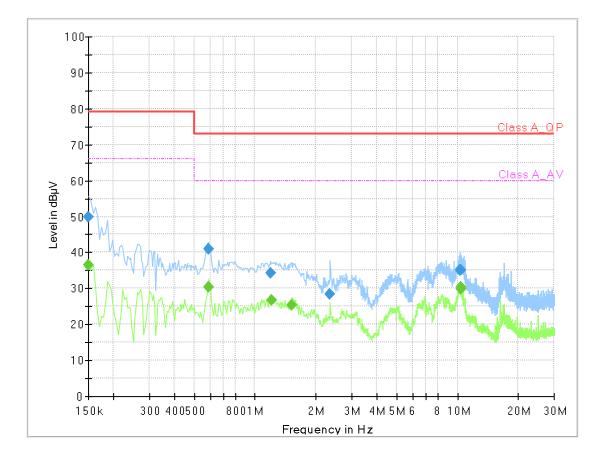
[HOT] – [Operating]



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
•••••••						14	
0.154	50.19		79.00	28.81	9	L1	20.8
0.158		36.19	66.00	29.81	9	L1	20.8
0.560		28.97	60.00	31.03	9	L1	20.8
0.560	37.36		73.00	35.64	9	L1	20.8
1.110	29.14		73.00	43.86	9	L1	20.0
1.680		27.22	60.00	32.78	9	L1	20.0
1.690	34.76		73.00	38.24	9	L1	20.0
2.170		26.85	60.00	33.15	9	L1	20.0
10.140		31.07	60.00	28.93	9	L1	20.1
10.240	36.18		73.00	36.82	9	L1	20.1
10.400	36.24		73.00	36.76	9	L1	20.1
10.430		31.13	60.00	28.87	9	L1	20.1

[NEUTRAL] – [Operating]



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.150		36.55	66.00	29.45	9	N	20.8
0.150	49.79		79.00	29.21	9	N	20.8
0.590		30.37	60.00	29.63	9	N	20.8
0.590	41.04		73.00	31.96	9	N	20.8
1.190	34.33		73.00	38.67	9	N	20.1
1.210		26.71	60.00	33.29	9	N	20.1
1.510		25.33	60.00	34.67	9	N	20.0
2.350	28.44		73.00	44.56	9	N	20.0
10.290	35.09		73.00	37.91	9	N	20.2
10.380		29.93	60.00	30.07	9	N	20.2
10.420		30.44	60.00	29.56	9	N	20.2
10.450	35.01		73.00	37.99	9	N	20.2

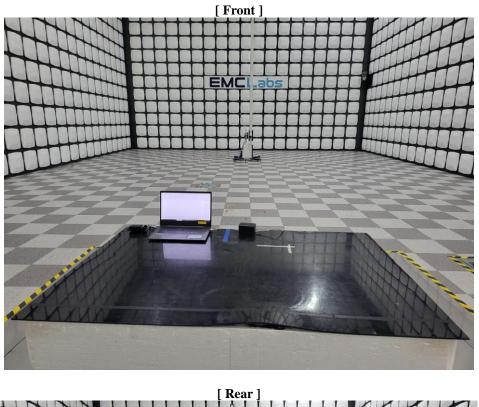
* Test Result

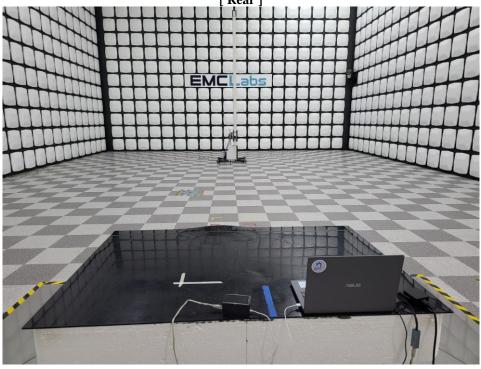
 \boxtimes Complied

□ Not complied

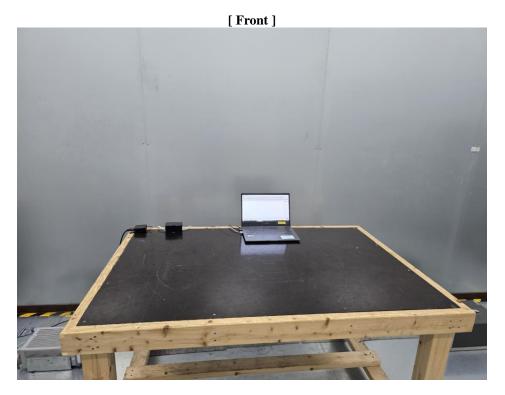
5. Test photographs

Radiated Emission (Below 1GHz)

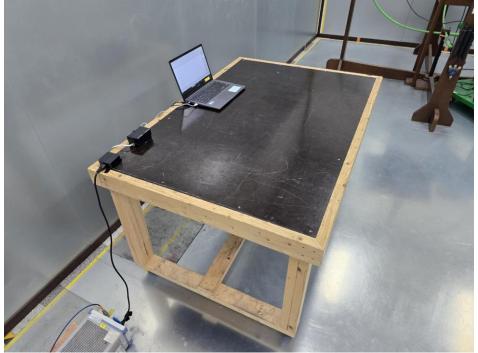




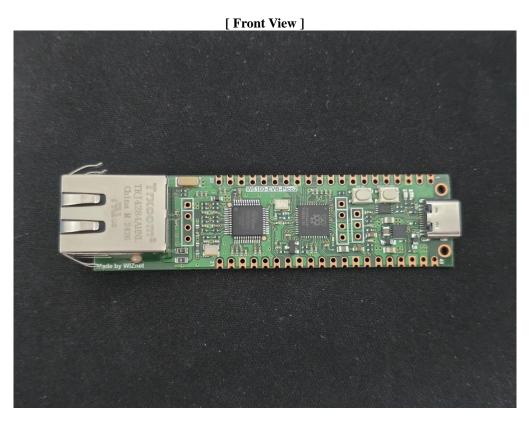
Conducted Emission (Main Power)



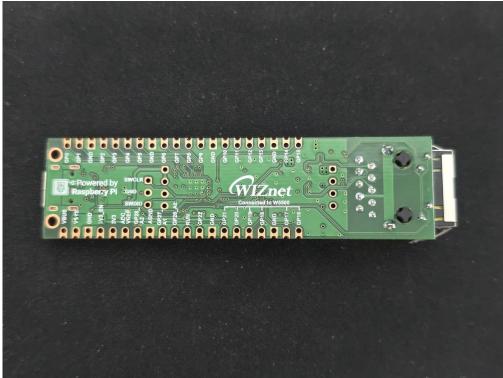
[Rear]



6. E.U.T. photographs



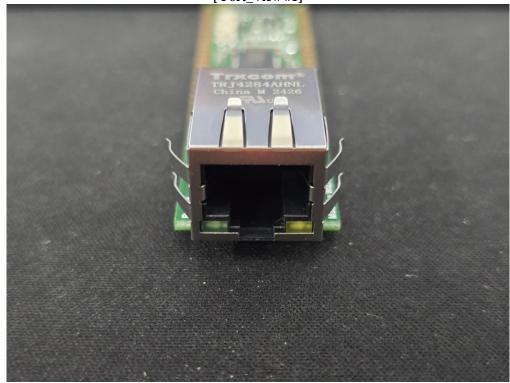
[Rear View]

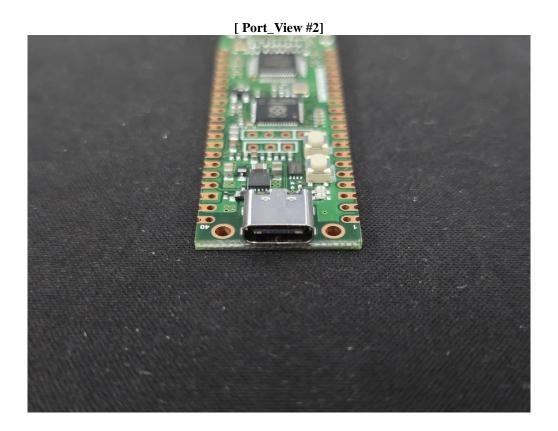


[Inside View]

N/A

[Port_View #1]





-THE END-