



TEST REPORT

100, Jangjateo-ro, Hobeop-myeon,
Icheon-si, Gyeonggi-do, 17396, Korea
Tel: 031-637-8898 / Fax: 0505-116-8895

Test Report

1. Client

- Name : WIZNET Co., Ltd.
- Address : 5F Humax Village, 216, Hwangsaewul-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Republic of Korea

2. Use of Report : FCC

3. Sample Description :

- Model W6300-EVB-Pico
- Kind of Product iEthernet Module
- Variant Model Name -

4. Date of Receipt : 2025. 08. 07

5. Date of Test : 2025. 08. 27

6. Test Method : FCC part 15 subpart B, 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.

Affirmation	Tested by	Technical Manager
	Park Bum Jun 	YONG MIN, PARK

08. 27, 2025

EMC Labs Co., Ltd.



[Contents]

1. Laboratory Information	3
2. Equipment Under Test	4
2.1 General Information	4
2.2 Configuration of the equipment under test	4
2.3 EUT Description	5
2.4 Operating Conditions.....	5
2.5 The drawing of general test setup	5
2.6 Variant Model.....	6
3. Summary	6
3.1 Modification to the E.U.T.....	6
3.2 Standards & results.....	6
4. Test results.....	7
4.1 Radiated emission	7
4.2 Conducted Emission.....	13
5. Test photographs	16
6. E.U.T. photographs.....	19

1. Laboratory Information

Address

EMC Labs Co., Ltd.

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

SITE MAP



2. Equipment Under Test

2.1 General Information

- Table-Top Floor – Standing
 Table-Top & Floor-Standing (combination)

2.2 Configuration of the equipment under test

Equipment	Model	Manufacturer	Serial No.
USB mouse	B100	LOGITECH	1802HS08MFV8
USB keyboard	km100	HP	-
PC	NCORE	ABKO	-
monitor	27TQ625SW	LG	312NTFAAC427
monitor Adapter	AD2137S20	BAO HUI SCIENCE & TECHNOLOGY CO.,LTD	-
headset	FS-850	FUSION FNC	-

Type	Description	Connection	Spec.	Length (m)
EUT	USB TYPE C	PC	USB TYPE A	1.5
	LAN	PC	LAN	5.0

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

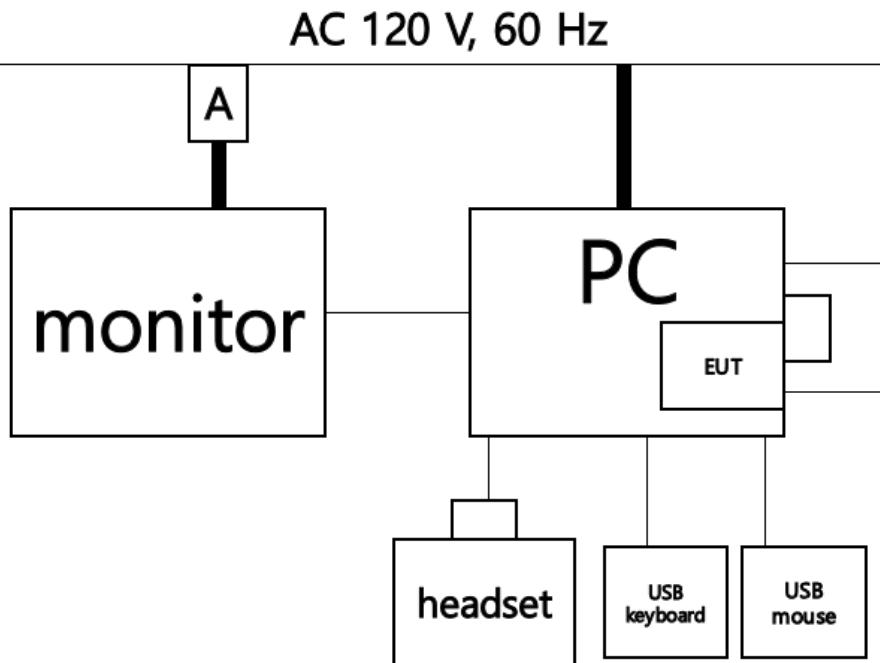
Model Name: W6300-EVB-Pico

2.4 Operating Conditions

The equipment under test was operated during the measurement under following

Test mode	Normal Operating
1	Power on the EUT, enter the PC IP (192.168.0.4), gateway (192.168.0.1), and PC port (5000). Then, use the vendor-provided program (Hercules Tool) to verify operation and test.
2	LAN – Test in Ping Test Mode.

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 B (Class A)

ANSI C63.4 – 2014, ANSI C63.4a – 2017

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

4. Test results

4.1 Radiated emission

Environmental Conditions

Temperature	(23.7 °C) - Semi anechoic chamber (10m) (°C) - Fully anechoic chamber (3m)
Humidity	(36.0 % R.H.) - Semi anechoic chamber (10m) (% R.H.) - Fully anechoic chamber (3m)
Test Area	Semi anechoic chamber(10m) – Below 1GHz Fully anechoic chamber (3m) – Above 1GHz
Test date	2025.08.27 - Semi anechoic chamber(10m) 2025.00.00 - Fully anechoic chamber (3m)

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
Spectrum Analyzer	E4401B	HP.Agilent	US39440387	2026.06.25	<input checked="" type="checkbox"/>
EMI TEST RECEIVER	ESU8	ROHDE&SCHWARZ	100219	2026.06.25	<input checked="" type="checkbox"/>
Controllers	CO3000-4port	Innco Systems GmbHRE	CO3000/ 1060/4211117/P	-	<input checked="" type="checkbox"/>
Antenna Masts	MA4640/800-XP-ET	Innco Systems GmbHRE	-	-	<input checked="" type="checkbox"/>
Turn tables	DS3000-S-1t	Innco Systems GmbHRE	-	-	<input checked="" type="checkbox"/>
AMPLIFIER	PO-LS960	PANOPTICS	PL181004	2026.01.03	<input checked="" type="checkbox"/>
Bi-Log Ant	VULB9160	Schwarzbeck	3260	2026.04.01	<input checked="" type="checkbox"/>

[Above 1GHz]

Equipment	Model no	Manufacturer	Serial no.	Next cal. date	Used
MEASUREMENT SOFTWARE	EMC32 VER 10.60.15	Rohde&Schwarz	-	-	<input type="checkbox"/>
EMI TEST RECEIVER	ESW44	Rohde&Schwarz	101952	2026.03.17	<input type="checkbox"/>
Controllers	CO3000-4port	Innco Systems GmbHRE	CO3000/ 1061/ 4211117/P	-	<input type="checkbox"/>
Antenna Masts	MA4640/800-XP-ET	Innco Systems GmbHRE	-	-	<input type="checkbox"/>
Turn tables	DS2000-S-1t	Innco Systems GmbHRE	-	-	<input type="checkbox"/>
Horn Ant.	SCHWARZBECK	BBHA9120D	974	2025.11.29	<input type="checkbox"/>
AMPLIFIER	TK-PA18H	TESTEK	220104-L	2026.05.23	<input type="checkbox"/>

4.1.3 Test data

* Receiving Antenna Mode : Horizontal, Vertical

* 3 m Chamber

* Note : Reading = Test Receiver meter,

Pol.= Polarization → H = Horizontal, V = Vertical

Result [dB(μ A/m)] = Reading [dB(μ A)] + Antenna factor [dB/m] + Cable Loss [dB] – Amp Gain [dB]

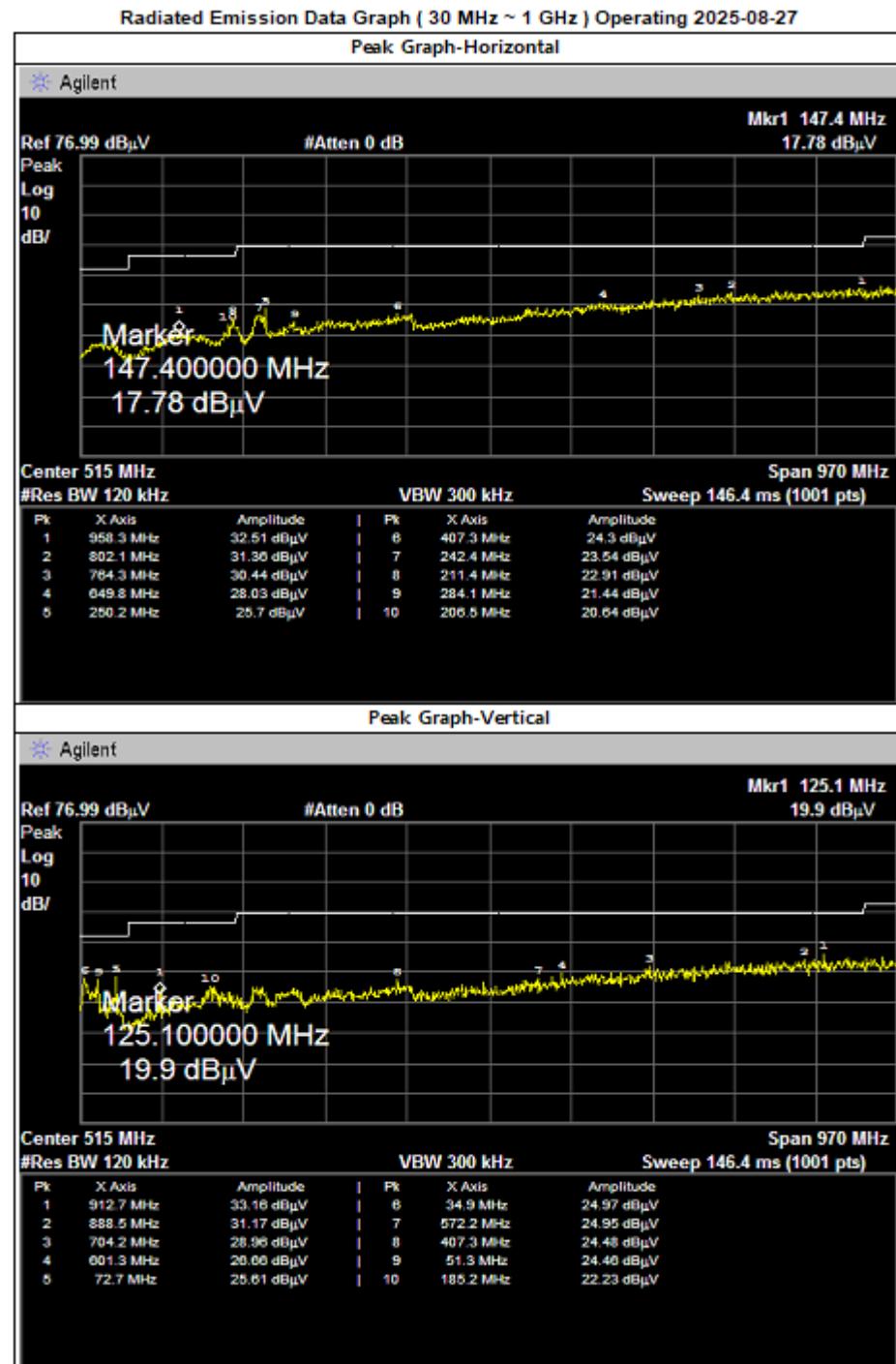
* Measurement uncertainty

- Below 1GHz : 6.08 dB (Confidence level about 95 %, k = 2)

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]



* Test Result

Complied

Not complied

A

Frequency [MHz]	Total Reading [dB μ /m]	Pol.	Height [m]	angle [°]	Quasi-Peak [dB μ /m]	Correction			Limits [dB μ /m]	Result [dB μ /m]	Margin [dB]
						Antenna [dB/m]	Cable [dB]	Amp Gain [dB]			
35,16	46,05	V	1,0	251	(21,12)	17,70	2,90	41,72	40,0	24,93	15,07
72,94	46,79	V	1,0	109	(21,16)	15,90	4,26	41,32	40,0	25,63	14,37
211,69	40,88	H	4,0	304	(17,98)	15,60	7,42	41,00	43,5	22,90	20,60
764,82	29,67	H	4,0	196	0,76	28,30	14,97	42,51	47,0	30,43	16,57
802,46	30,02	H	4,0	271	1,33	28,50	15,42	42,59	47,0	31,35	15,65
912,85	29,79	V	1,0	136	3,37	29,84	16,60	43,07	47,0	33,16	13,84

* Test Result

Complied Not complied

[Above 1GHz]

* Test Result

Complied Not complied

4.2 Conducted Emission

Environmental Conditions

Temperature	(23.6 °C)
Humidity	(39.0 % R.H.)
Test Area	Conducted Room
Test date	2025.08.27

4.2.1 Limits of conducted emission measurement

Frequency [MHz]	Class A (dBuV)		Class B (dBuV)	
	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

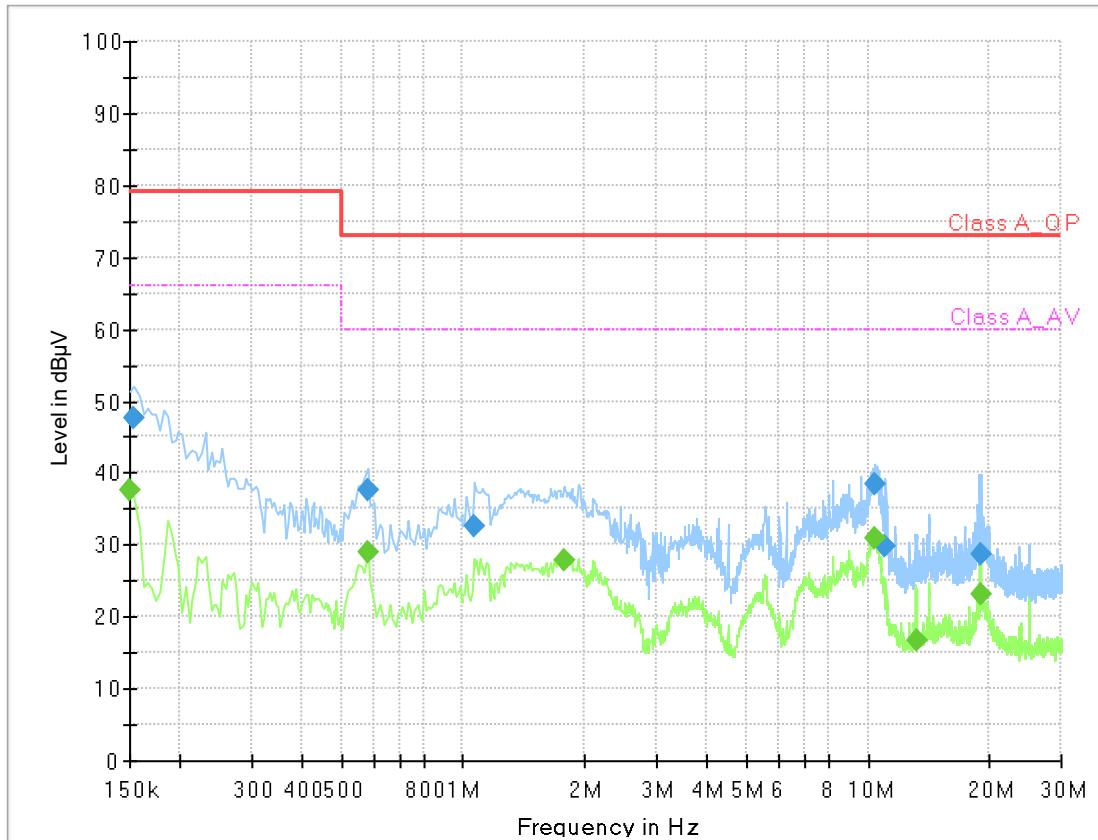
Equipment	Model	Manufacturer	Serial or Firmware (No./Ver.)	Next Cal. Date	Used
MEASUREMENT SOFTWARE	EMC32 VER 10.60.15	Rohde&Schwarz	-	-	<input checked="" type="checkbox"/>
Test Receiver	ESR7	Rohde&Schwarz	101616	2026.06.25	<input checked="" type="checkbox"/>
LISN	ENV216	Rohde&Schwarz	102596	2026.04.14	<input checked="" type="checkbox"/>
LISN	3825-2	EMCO	8901-1458	2026.01.06	<input checked="" type="checkbox"/>
Pulse Limiter	EPL-30	lignex1	-	2026.01.04	<input checked="" type="checkbox"/>

4.2.4 Test data

- Note. QP = Quasi-Peak, AV= Average , • Loss = LISN Loss + Cable Loss, • Measurement time : 1 s
- Measurement uncertainty : Below 1GHz : 2.00 dB (Confidence level about 95 %, k = 2)

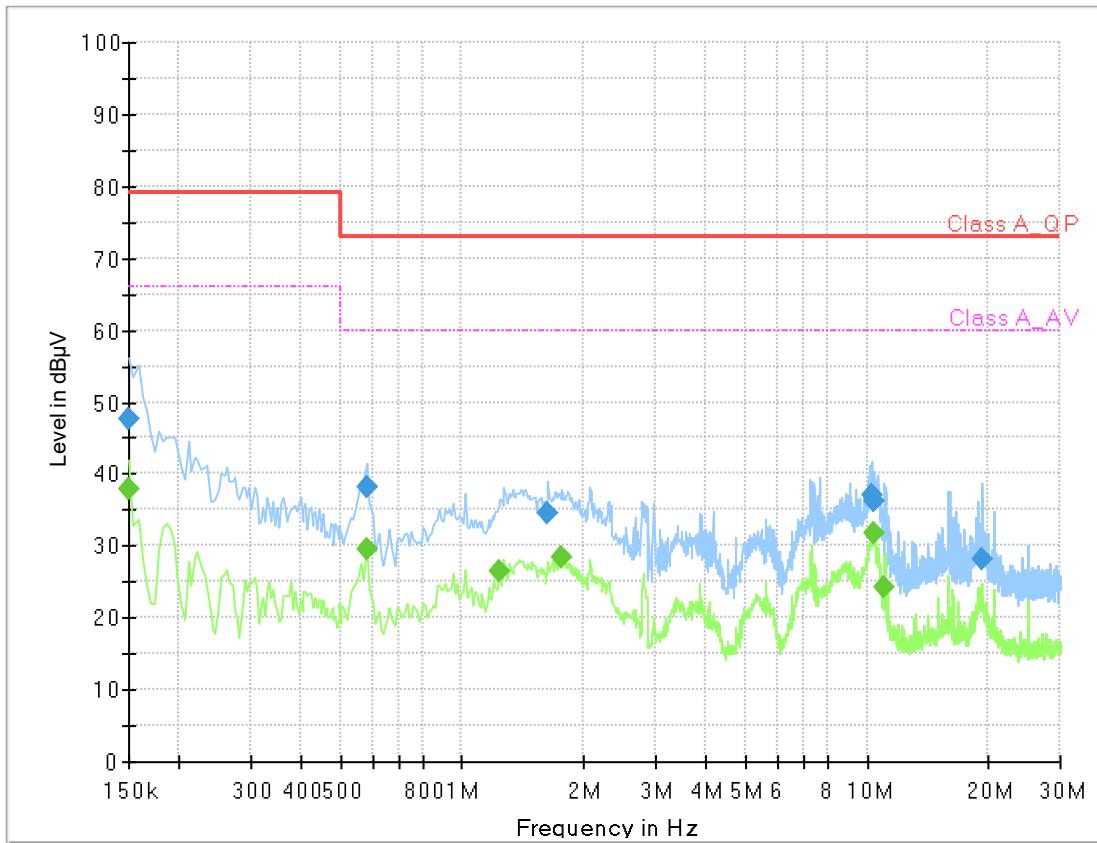
4.2.5 Test Result

[HOT]

**Final_Result**

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Limit (dB μ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.150	---	37.71	66.00	28.29	9	L1	19.4
0.154	47.73	---	79.00	31.27	9	L1	19.5
0.580	---	29.05	60.00	30.95	9	L1	19.8
0.580	37.54	---	73.00	35.46	9	L1	19.8
1.070	32.72	---	73.00	40.28	9	L1	19.7
1.770	---	27.92	60.00	32.08	9	L1	19.6
10.350	38.54	---	73.00	34.46	9	L1	19.9
10.370	---	31.02	60.00	28.98	9	L1	19.9
11.060	29.70	---	73.00	43.30	9	L1	19.9
13.140	---	16.59	60.00	43.41	9	L1	19.9
18.940	28.60	---	73.00	44.40	9	L1	20.0
18.960	---	23.08	60.00	36.92	9	L1	20.0

[NEUTRAL]



Final Result

Frequency (MHz)	QuasiPeak (dB μ V)	CAverage (dB μ V)	Limit (dB μ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.150	---	37.85	66.00	28.15	9	N	19.4
0.150	47.59	---	79.00	31.41	9	N	19.4
0.580	---	29.56	60.00	30.44	9	N	19.8
0.580	38.24	---	73.00	34.76	9	N	19.8
1.240	---	26.52	60.00	33.48	9	N	19.7
1.630	34.61	---	73.00	38.39	9	N	19.6
1.760	---	28.36	60.00	31.64	9	N	19.6
10.260	36.95	---	73.00	36.05	9	N	19.9
10.360	---	31.81	60.00	28.19	9	N	19.9
10.440	36.32	---	73.00	36.68	9	N	19.9
11.040	---	24.09	60.00	35.91	9	N	19.9
19.200	28.23	---	73.00	44.77	9	N	20.0

* Test Result

 Complied Not complied

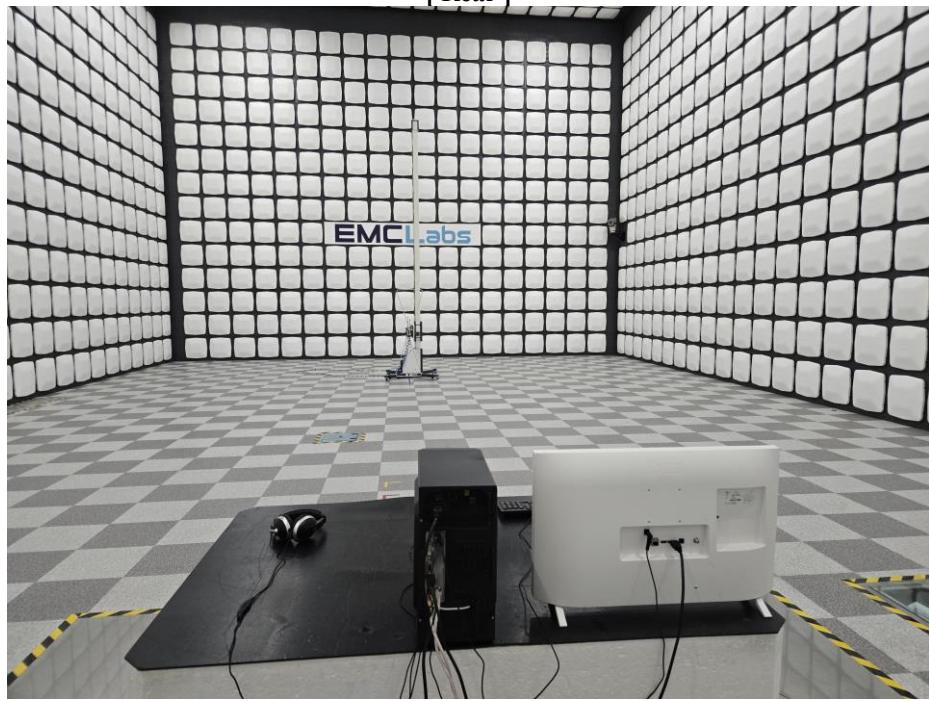
5. Test photographs

Radiated Emission (Below 1GHz)

[Front]



[Rear]



Radiated Emission (Above 1GHz)

[Front]

N/A

[Front]

N/A

Conducted Emission (Main Power)

[Front]

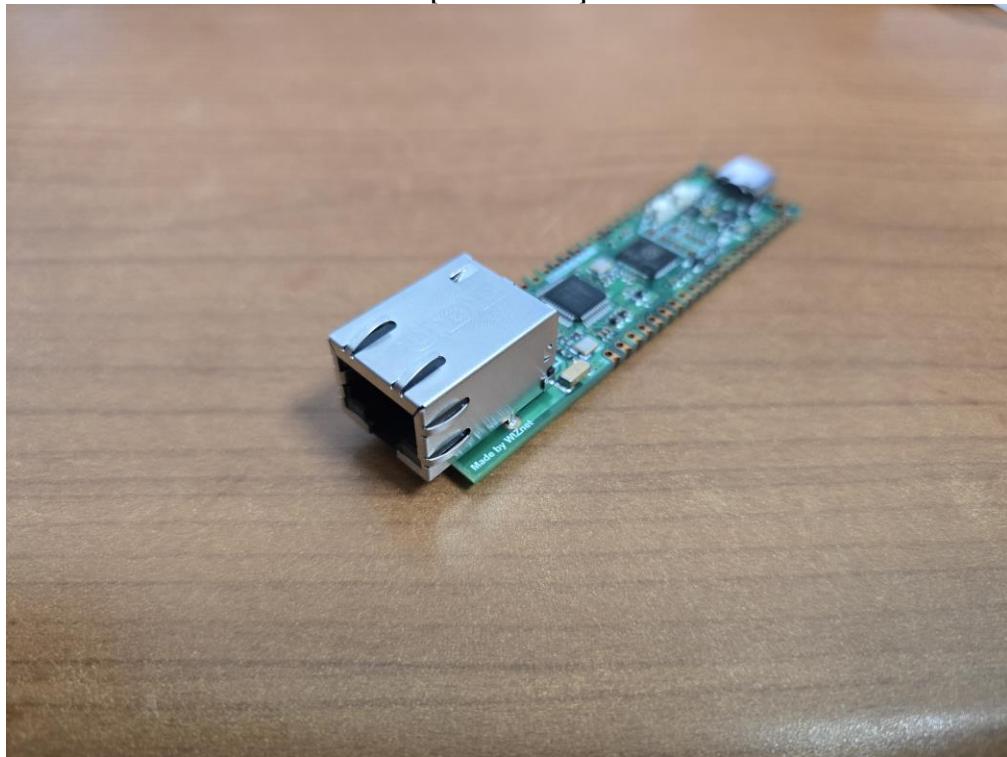


[Rear]

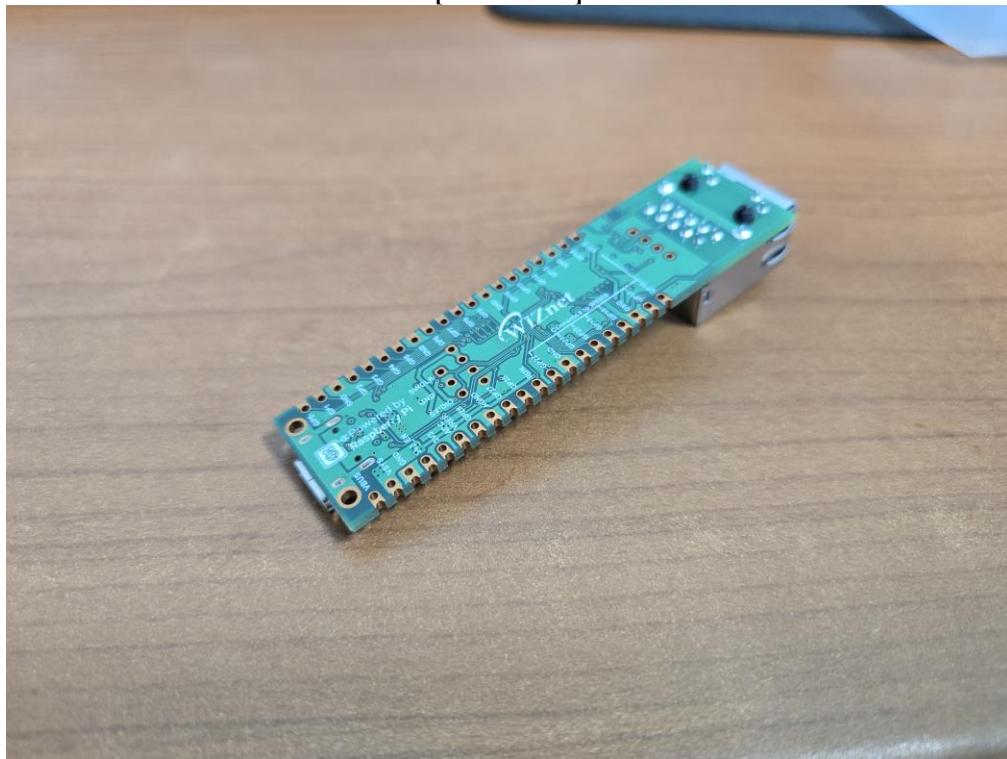


6. E.U.T. photographs

[Front View]



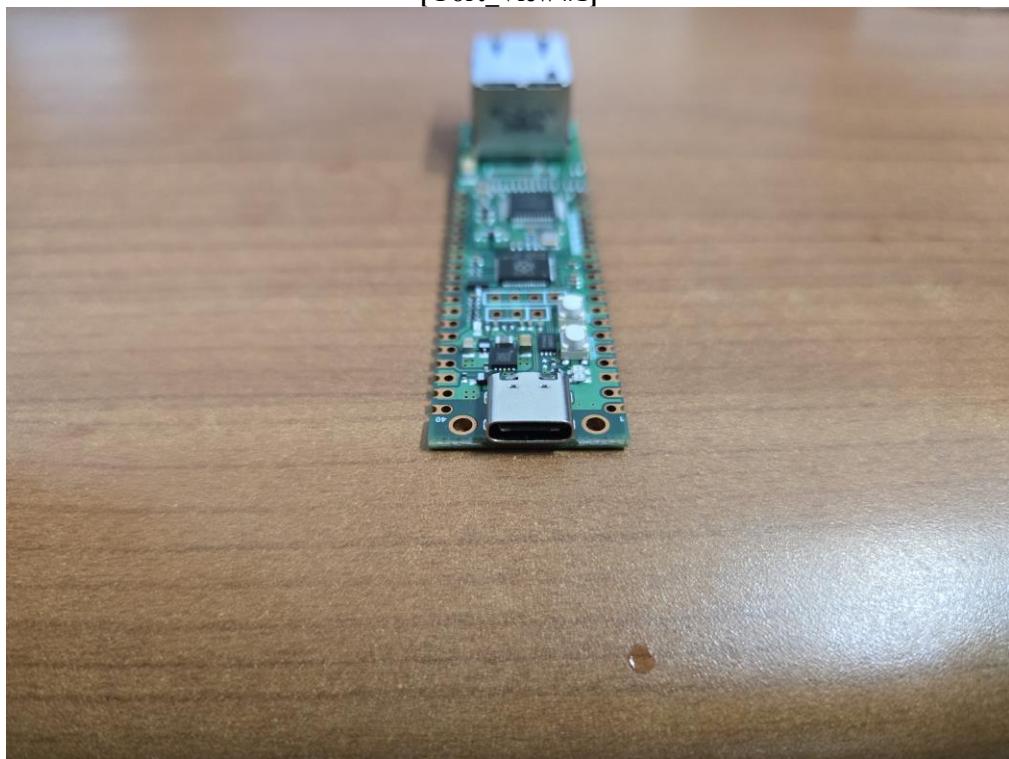
[Rear View]



[Inside View]



[Port_View #1]



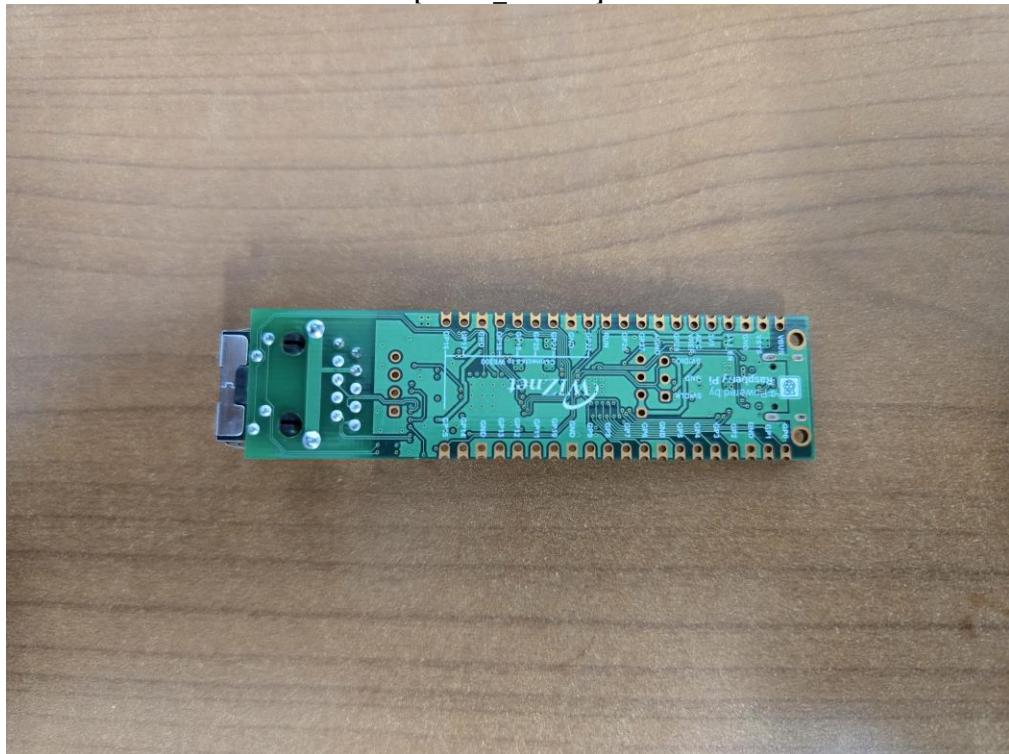
[Port_View #2]



[Board_Front #1]



[Board_Rear #1]



-THE END-