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Report No.: R25S1039058-J502
Report Version: V02
Issue Date: 2025-08-29

RF MEASUREMENT REPORT

Applicant: TP-Link Systems Inc.
Address: 10 Mauchly, Irvine, CA 92618
Product: BE3600 Wi-Fi 7 Range Extender
Model No.: RE235BE
Brand Name: tp-link
Regulation: Ordinance Concerning Terminal Facilities etc. (Ministerial Ordinance of the Ministry of Posts and Telecommunications No. 31 of April 1, 1985)
Method: Notification No. 99 of Ministry of Public Management, Home Affairs, Posts and Telecommunication
Result: Complies
Received Date: 2025-06-27
Test Date: 2025-08-01

Reviewed By:

Kevin Guo

Approved By:

Robin Wu

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standards through the calibration of the equipment and evaluated measurement uncertainty herein.

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Revision History

Report No.	Version	Description	Issue Date	Note
R25S1039058-J502	V01	Initial Report	2025-08-11	Invalid
R25S1039058-J502	V02	Update Section 3.2.2 & 3.2.3 & 3.3.2 & 3.4.2	2025-08-29	Valid

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複製禁止

10 Mauchly, Irvine, CA 92618

Manufacturer
 Ink Systems Inc.
 10000, Irvine, CA 92618

10 Mauchly, Irvine, CA 92618

複製

禁止

1.4. Product Information

Product Name	BE3600 Wi-Fi 7 Range Extender
Model No.	RE235BE
Brand Name	tp-link
EUT Identification No.	20250627Sample#01
Wi-Fi Specification	802.11a/b/g/n/ac/ax/be
Operating Temperature	0 ~ 40 °C
Power Type	AC 100-240V
Note: The information of the EUT (Equipment Under Test) was provided by the manufacturer. The accuracy, completeness, and validity of the information are solely the responsibility of the manufacturer.	

1.5. Ethernet Specification under Test

Connection Method	☒ RJ45	☐ RJ11	☐ Others
Transmission Speed	100Mbps/1000Mbps/2500Mbps		
Maximum Number of Port	1 port		

1.6. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- Ordinance Concerning Terminal Facilities etc. and relevant notifications
- MIC Notification No. 87 of March 22, 2011
- ISO Standard 8802-3 (Section 14, 25, 40)

Note: All test items were verified and recorded according to the standards and without any deviation during the test.

2. Measuring Instrument

RF Conduction Test Equipment (WJ-SR3)

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Date	Cali. Due Date	Cali. Body	Cali. Method
Oscilloscope	Agilent	DSO-X 6002A	MRTSUE06107	1 year	2025-01-21	2026-01-20	Ceprei	c
Thermohygrometer	testo	608-H1	MRTSUE11331	1 year	2025-06-06	2026-06-05	Ceprei	c
Shielding Room	TDK	WJ-SR3	MRTSUE07125	N/A	N/A	N/A	N/A	N/A

Note: All the above test equipment was used and kept valid calibration period during the testing.

Calibration Method:

- Calibration conducted by the National Institute of Information and Communications Technology (NICT) or a designated calibration agency under Article 102-18 paragraph.
- Correction conducted pursuant to the previous of Article 135 or Article 144 of the measurement Law (Law No. 51 of 1992), Japan calibration Service System.
- Calibration conducted in foreign countries, which shall be equivalent to the calibration conducted by the NICT or a designated calibration agency under Article 102-18 paragraph.

3. Test Result

3.1. Summary

Reference	Test Description	Test Result
3.2	Article 3 - Network - Terminal Demarcation	Pass
3.3	Article 4 - Prohibition of Leaked Signal Detection	Pass
3.4	Article 6 - Insulation Resistance, etc.	Pass
3.5	Article 7 - Prevention of the occurrence of excessive acoustic shock	N/A
3.6	Article 34-8 - Terminals Connected to Leased circuit Facility and Digital Data Transmission Facility	Pass
Note: N/A means the requirement is not applicable.		

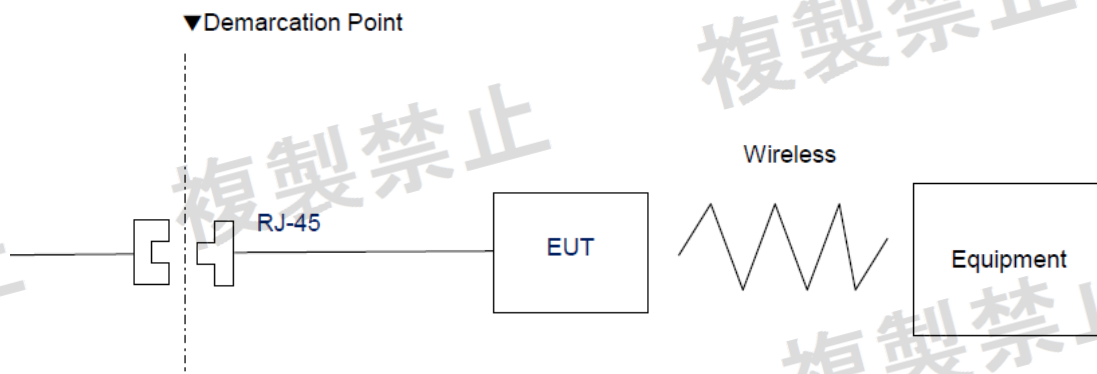
3.2. Article 3 - Network - Terminal Demarcation

3.2.1. Test Description

Article 3

1. Terminal facilities connected by a user (hereinafter terminal facilities) shall have a demarcation point between the terminal facilities and the telecommunication facilities for telecommunications business, to clarify the demarcation of responsibility between the terminal facilities and the telecommunications facilities for telecommunications business.
2. The connection method at the demarcation point shall enable easy detachment of the terminal facilities from the telecommunication facilities for telecommunications business for each telecommunication circuit.

3.2.2. Test Configuration



3.2.3. Test Result

Mark how to connect between a terminal facility and EUT.	
☒	Line Connector, Kind of a connector : RJ-45
☐	Screw onto terminal strip
☐	F-connector
☐	Radio Wave
☐	By certified equipment placed in front
☐	Other :

Mark method for separating the EUT from the terminal facility.	
☒	Line can be separated easily by pulling connector plug out from jack.
☐	Line can be separated easily by unscrewing screw on terminal strip.
☐	Line can be separated easily by unscrewing a lock nut and pulling a F-connector plug out from jack
☐	The communication method is wireless, and line can be separated easily by turn off the power of EUT
☐	The communication method is wireless, and line can be separated easily by disabling the wireless function of EUT. The method for disabling the wireless function: Enable an Airplane mode
☐	By certified equipment placed in front
☐	Other :

3.3. Article 4 - Prohibition of Leaked Signal Detection

3.3.1. Test Description

Article 4

Terminal facilities shall not have functions for the intentional discrimination of the content of communications leaked from the telecommunications facilities used for telecommunications business.

3.3.2. Test Result

Does EUT have a function that can detect the leaked signals?	
☐	Yes
☒	No
☐	N/A (Because EUT is communicated with a terminal facility by using digital signals.)

Mark how to connect between a terminal facility and EUT.	
☐	Yes
☐	No
☒	N/A (Because EUT is communicated with a terminal facility by using digital signals.)

3.4. Article 6 - Insulation Resistance

3.4.1. Test Description

Article 6

1. Equipment in terminal facilities shall meet the following insulation resistance and dielectric strength between its power circuit and its box, and between its circuits and the telecommunications facilities for telecommunications business.

(1) Insulation resistance shall be 0.2 M Ω or greater when the service voltage is 300 V or less, and shall be 0.4 M Ω or greater when the service voltage is greater than 300 V_{DC} and 750 V_{DC} less than or less, and when the service voltage is greater than 300 V_{AC} and less than 600 V_{AC} or less.

(2) Dielectric strength shall be sufficient to endure 1.5 times the service voltage (in case of greater than 750 V_{DC} and 600 V_{AC}) applied continuously to the equipment for 10 minutes.

2. The metallic base and housing of equipment in terminal facilities shall be securely earth grounded to establish an earth resistance of 100 or less. However, where they are established safely, this requirement shall not be applied.

3.4.2. Test Result

Applicable Power Source

Input Voltage		Applicable Power Source
☒	AC Voltage Range:100 - 240 V	Commercial power
☐	DC 57V Max	External Power Source device
☐	DC 3.7V, 1000mAh	Lithium battery
☐	DC 1.2V	UM battery

Insulation Resistance

Measuring Voltage	Condition	Result (ohm)	Requirement (ohm)
☒ DC 500 V	Power_L1 to Housing	> 1000M	>> 0.2M
	Power_L2 to Housing	> 1000M	>> 0.2M
☐ EUT is never connected with the external power supply.	N/A		
☐ Power source is less than 30V			
☐ Power source is from central office			
☐ Other:			

Ground Part

Measuring Current	Condition	Resistance (mohm)
☐ 40A	Ground to Housing	N/A
	Ground to Metallic Surface	N/A
☒	EUT does not possess ground port	
☒	Because Chassis of synthetic resin (isolator)	
☐	Isolator power source of 30V or less	
☐	Other:	

3.5. Article 7 - Prevention of the Occurrence of Excessive Acoustic Shock

3.5.1. Test Description

Article 7

Terminal facilities with a voice communication feature shall have a function that prevents the occurrence of excessive acoustic shock in a telephone receiver while being used for conversation.

3.5.2. Test Result

Does EUT have a receiver, or interfaces such as earphone and headset jack?	
☐	Yes – go to Item 2
☒	No

Please select the reason why EUT prevents the occurrence of excessive acoustic shock.	
☐	The maximum level of the volume is limited by D/A converter.
☐	It is prevented using speech IC saturation properties.
☐	It is prevented with a varistor.
☐	It is prevented with a zener diode.
☐	Other :

3.6. Article 34-8 - Terminals Connected to Leased Circuit Facility and Digital Data Transmission Facility

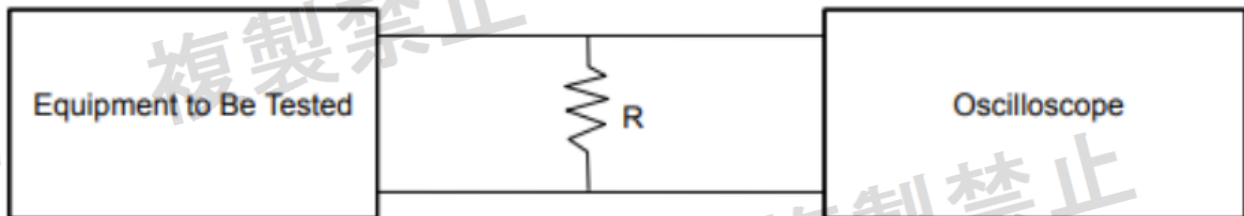
3.6.1. Test Description

Article 34-8

1985- The terminal for private circuit facilities, etc. shall comply with either electrical or optical requirements, as notified separately by the Minister for Public Management, Home Affairs, Posts and Telecommunications.

1985- The terminal for private circuit facilities, etc. (excluding digital terminals for optical transmission interface) shall not charge the telecommunication circuit with DC voltage.

3.6.2. Test Configuration



$R = 100 \text{ Ohms}$

3.6.3. Test Procedure

Measured by measuring methods specified in MIC ministerial notice.

MIC Notice No. 87 of March 22, 2011 (Partially changed by MIC Notice No. 453 of December 5, 2012).

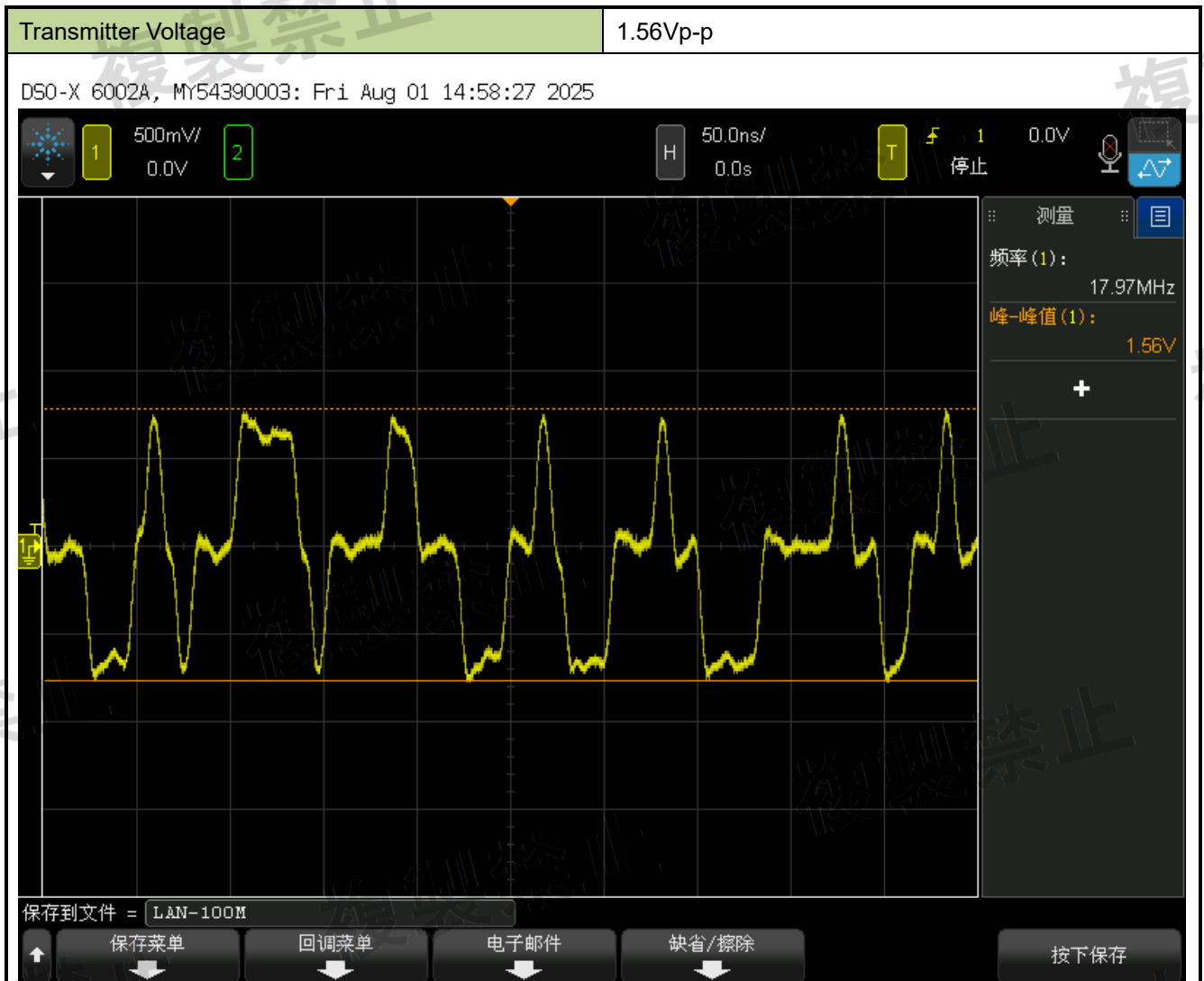
The electrical conditions and optical conditions of internet protocol telephone terminal and private communication line facilities, etc. terminals shall be stipulated pursuant to the provisions of Article 34-7 and Article 34-8 of the Ordinance Concerning Terminal Facilities, etc. (MPT ordinance No. 31 of 1985).

The internet protocol telephone terminal and private communication line facilities of other interfaces shall be subject to the conditions specified in Annex 6.

ISO Standard 8802-3 Section 25 (100BASE-T)	Transmitter voltage of terminal facilities shall be 2.1 V(P-P) or less with 100Ω load resistance
ISO Standard 8802-3 Section 40 (1000BASE-T)	Transmitter voltage of terminal facilities shall be 6.2 V(P-P) or less with 100Ω load resistance

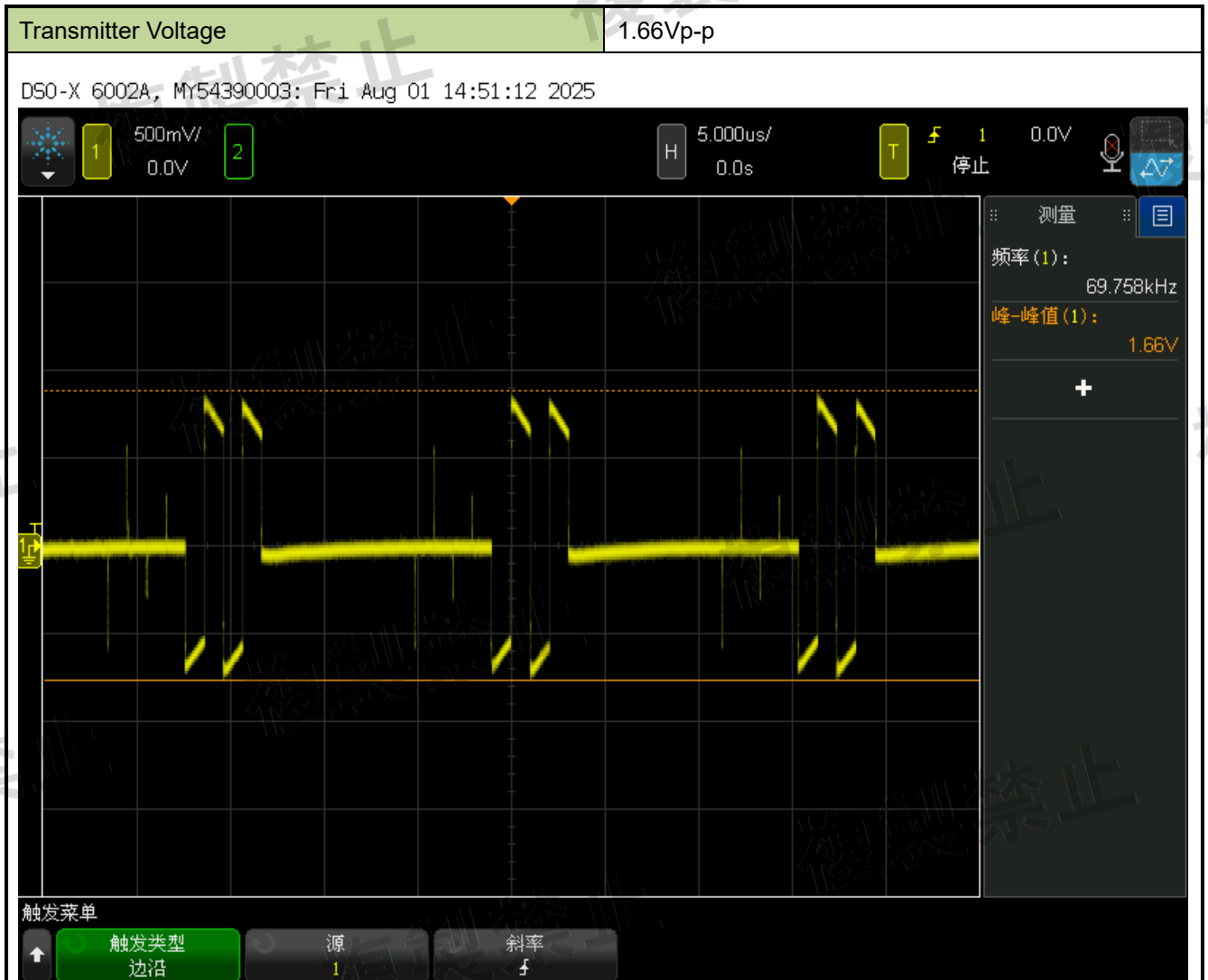
3.6.4. Test Result

Product	BE3600 Wi-Fi 7 Range Extender	Temperature	28.2 °C
Test Date	2025-08-01	Relative Humidity	56.0 %
Test Engineer	Simon Lu	Test Site	WJ-SR3
Test Mode	LAN-100BASE-T		



Does the applying equipment give and DC voltage to a telecommunication line?	☐ Yes
	☒ No
Indicate the element(s) prevents the application of DC voltage	The Element Name
	☒ Transformer
	☐ Capacitor
	☐ The others:

Product	BE3600 Wi-Fi 7 Range Extender	Temperature	28.2 °C
Test Date	2025-08-01	Relative Humidity	56.0 %
Test Engineer	Simon Lu	Test Site	WJ-SR3
Test Mode	LAN-1000BASE-T		



Does the applying equipment give and DC voltage to a telecommunication line?	☐ Yes
	☒ No
Indicate the element(s) prevents the application of DC voltage	The Element Name
	☒ Transformer
	☐ Capacitor
	☐ The others:

Appendix A - EUT Photograph

Refer to "R25S1039058-JE" file.