

RF EXPOSURE REPORT



Applicant: Westermo Neratec AG
Rosswiesstrasse 29, 8608 Bubikon, Switzerland
Manufacturer: Westermo Neratec AG
Rosswiesstrasse 29, 8608 Bubikon, Switzerland
Product Name: WLAN Access Point
Brand Name: WESTERMO
Model No.: Ibex-1510-T2G2.5 NA
FCC ID 2AEJD-3628-15102
Date of EUT Received: Oct. 09, 2024
Issue Date: Jan. 14, 2025

Approved By

John Yeh

We hereby certify that:

The above equipment was evaluated by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1091, KDB 447498 D01 v06.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.
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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2410000634ES	00	Original	Dec. 04, 2024	Kimmy Chiou	
TESA2410000634ES	01	Modify comment	Jan. 08, 2025	Kimmy Chiou	*
TESA2410000634ES	02	Modify comment	Jan. 14, 2025	Kimmy Chiou	*

Note:

- 1、The remark "*" indicates modification of the report upon requests from certification body.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	WLAN Access Point
Brand Name:	WESTERMO
Model No.:	Ibex-1510-T2G2.5 NA

1.2 Evaluation site

Laboratory	Site Address		FCC Designation number	ISED Company Number	CAB Identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	☒	No. 134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, 24803, Taiwan.	TW0027	4620A	TW3702
	☐	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 333 Taiwan.	TW0028	4620E	
	☐	1F, No. 8, Alley 15, Lane 120, Sec. 1, Nei Hu Road, Neihu District, Taipei City, 222 Taiwan.	TW0029	23862	

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1.3 Antenna Information:

Antenna Type	Brand	Model	Freq. (MHz)	Peak Antenna Gain (dBi)
Dipole	Huber & Suhner	SENCITY® Omni-SR 3x3 MIMO (1399.35.0008)	2400-2483.5	4.00
			5150-5850	6.00
Patch	Westermo	ICL-5	5150-5960	4.00

Note: Antenna information is provided by the applicant.

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2 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

2.1 FCC Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

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

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
Limits for General Population/Uncontrolled Exposure				
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
1500-100000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equipment power density

Prediction of MPE limit at a given distance

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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2.2 Power Density Calculation (Worst Case)

Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Max. Output Power Include Tolerance (dBm)	Antenna Gain (dBi)	Max. EIRP (mW)	Power Density (PD) (mW/cm ²)	Limit (mW/cm ²)	Pass / Fail	Power Density / Limit
WLAN 2.4G	2442.00	20	25	4.00	794.33	0.158	1.000	Pass	0.158
WLAN 5.2G	5180.00	20	15	6.00	125.89	0.025	1.000	Pass	0.025
WLAN 5.3G	5350.00	20	23	6.00	794.33	0.158	1.000	Pass	0.158
WLAN 5.6G	5470.00	20	23	6.00	794.33	0.158	1.000	Pass	0.158
WLAN 5.8G	5725.00	20	25	6.00	1258.93	0.251	1.000	Pass	0.251

Note: For conservativeness, the lowest uplink frequency of each band is used to determine the MPE limit of that band.

~ End of Report ~

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