

**FCC Part 1.1307**

**FCC Part 2.1093**

## **RF Exposure Evaluation REPORT**

For

**Superior Electronics Corporation.**

No.10, Lane 31, Chongde St., Sinyi District, Taipei City 110, Taiwan (R.O.C.)

**FCC ID: K4EWT1-WT2**

**Report Type:**

Original Report

**Product Type:**

Remote Transmitter

**Report Producer :** Cedric Xu

**Report Number :** RLK260323073RF02

**Report Date :** 2026-06-09

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Revision History

| Revision | No.          | Report Number    | Issue Date | Description     | Author/<br>Revised by |
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| 0.0      | RLK260323073 | RLK260323073RF02 | 2026-06-09 | Original Report | Cedric Xu             |

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## 1. General Information

### 1.1 Product Description for Equipment under Test (EUT)

|                                    |                                                                                                                                                                                                                                                                                              |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant                          | Superior Electronics Corporation.                                                                                                                                                                                                                                                            |
|                                    | No.10, Lane 31, Chongde St., Sinyi District, Taipei City 110, Taiwan (R.O.C.)                                                                                                                                                                                                                |
| Manufacturer                       | Superior Electronics Corporation.                                                                                                                                                                                                                                                            |
|                                    | No.10, Lane 31, Chongde St., Sinyi District, Taipei City 110, Taiwan (R.O.C.)                                                                                                                                                                                                                |
| Brand(Trade) Name                  | GENERAL LOCK                                                                                                                                                                                                                                                                                 |
| Product (Equipment)                | Remote Transmitter                                                                                                                                                                                                                                                                           |
| Main Model Name                    | WT-2                                                                                                                                                                                                                                                                                         |
| Series Model Name                  | WT-1                                                                                                                                                                                                                                                                                         |
| Model Discrepancy                  | The major electrical and mechanical constructions of series models are identical to the basic model, except different model WT-2 is two buttons with logo, model WT-1 is one buttons with logo, The model WT-2 is the testing sample, and the final test data are shown on this test report. |
| Frequency Range                    | 433.92 MHz                                                                                                                                                                                                                                                                                   |
| Modulation Type                    | OOK                                                                                                                                                                                                                                                                                          |
| Number of Channels                 | 1 Channel                                                                                                                                                                                                                                                                                    |
| Power Operation<br>(Voltage Range) | DC 3V from Battery                                                                                                                                                                                                                                                                           |
| Received Date                      | 2026/04/01                                                                                                                                                                                                                                                                                   |
| Date of Test                       | 2026/04/08~ 2026/04/15                                                                                                                                                                                                                                                                       |

\*All measurement and test data in this report was gathered from production sample serial number:

RLK260323073-01(Assigned by BACL, Linkou Laboratory).

## 1.2 Statement of Compliance

Decision Rule: No, (The test results do not include MU judgment)

1. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Linkou Laboratory).
2. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.
3. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.
4. The determination of the test results does not require consideration of the uncertainty of the measurement, unless the assessment is required by customer agreement, regulation or standard document specification.
5. Bay Area Compliance Laboratories Corp. (Linkou Laboratory) is not responsible for the authenticity of the information provided by the applicant that affects the test results.

## 1.3 Measurement Uncertainty

| Parameter       | Uncertainty     |
|-----------------|-----------------|
| RF output power | $\pm 3.42$ (dB) |

## 2. FCC §1.1307(b)(3) - RF Exposure

### 2.1 Applicable Standard

According to subpart §1.1307(b)(3), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

(A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section.

Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);

(B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold  $P_{th}$  (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive).  $P_{th}$  is given by

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least  $\lambda/2\pi$ , where  $\lambda$  is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

| RF Source frequency (MHz) | Threshold ERP (watts) |
|---------------------------|-----------------------|
| 0.3-1.34                  | $1,920 R^2$ .         |
| 1.34-30                   | $3,450 R^2/f^2$ .     |
| 30-300                    | $3.83 R^2$ .          |
| 300-1,500                 | $0.0128 R^2 f$ .      |
| 1,500-100,000             | $19.2 R^2$ .          |

## 2.2 RF Exposure Evaluation Result

Calculate the ERP from the radiated field strength in the far field using Equation

$$\text{EIRP} = E_{\text{Meas}} + 20\log(d_{\text{Meas}}) - 104.7$$

$$\text{EIRP} = 73.68 \text{ dB}\mu\text{V/m} - 95.2 = -21.52 \text{ dBm}$$

$$\text{ERP} = \text{EIRP} - 2.15 \text{ dB}$$

Project info

| Frequency<br>(MHz) | EIRP<br>(dBm) | ERP<br>(dBm) | ERP<br>(mW) |
|--------------------|---------------|--------------|-------------|
| 433.92             | -21.52        | -23.67       | 0.004295    |

§ 1.1307(b)(3)(i)(A)

The available maximum time-averaged power is no more than 1 mW

**Result:** The device meets the exemption requirement.

\*\*\*\*\* END OF REPORT \*\*\*\*\*