





FCC RF Exposure Report

FCC ID : P27-IG502L

Equipment: Monitor Gateway

Model No. : IG-502L

Brand Name : OxTech, LLC

Applicant : Sercomm Corporation

Address : 8F, No. 3-1, YuanQu St., NanKang, Taipei 115,

Taiwan, R.O.C.

Standard : 47 CFR FCC Part 2.1091

Received Date : Dec. 21, 2021

Tested Date : Dec. 28, 2021 ~ Jan. 24, 2022

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by: Approved by:

Along Chen/ Assistant Manager Gary Chang / Manager

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Release Record

| Report No. | Version | Description | Issued Date |
|------------|---------|---------------|---------------|
| FA1D2104 | Rev. 01 | Initial issue | Feb. 17, 2022 |

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1 MPE EVALUATION OF MOBILE DEVICES

1.1 LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE

| Frequency Range (MHz) | Power Density (mW /cm²) | Averaging Time (minutes) |
|-----------------------|-------------------------|--------------------------|
| 300~1500 | F/1500 | 30 |
| 1500~100000 | 1.0 | 30 |

1.2 MPE EVALUATION FORMULA

$$Pd = \frac{Pt}{4 * Pi * R^2}$$

Where

Pd= Power density in mW/cm²

Pt= EIRP in mW

Pi= 3.1416

R= Measurement distance

1.3 DEVIATION FROM TEST STANDARD AND MEASUREMENT PROCEDURE

None

1.4 MEASUREMENT UNCERTAINTY

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

| Parameters | Uncertainty | | |
|-----------------|-------------|--|--|
| Conducted power | ±0.808 dB | | |

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

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1.5 MPE EVALUATION RESULTS

ZigBee

| Frequency range (MHz) | Max. Conducted Power (dBm) | Rated Power (dBm) | Antenna Gain (dBi) | Distance (cm) | Power Density (mW/cm²) | Limit (mW/cm2) | Ratio | Pass / Fail |
|-----------------------|-------------------------------------|-------------------------|--------------------------|------------------|------------------------------|-------------------|-------|----------------|
| 2405~2480 | 12.62 | 13 | 5.1 | 22 | 0.011 | 1 | 0.011 | Pass |

Lora

| Frequency range (MHz) | Maximum Conducted Power (dBm) | Rated Power (dBm) | Antenna Gain (dBi) | Distance (cm) | Power Density (mW/cm²) | Limit (mW/cm2) | Ratio | Pass / Fail |
|-----------------------|--|-------------------------|--------------------------|------------------|------------------------------|-------------------|-------|----------------|
| 923.3 ~ 927.5 | 27.89 | 28 | 2.1 | 22 | 0.168 | 0.616 | 0.273 | Pass |

WLAN 2.4G

| Frequency range (MHz) | Maximum Conducted Power (dBm) | Rated Power (dBm) | Antenna Gain (dBi) | Distance (cm) | Power Density (mW/cm²) | Limit (mW/cm2) | Ratio | Pass / Fail |
|--------------------------|--|-------------------------|--------------------------|------------------|------------------------------|-------------------|-------|----------------|
| 2412~2462 | 26.05 | 26.5 | 3.9 | 22 | 0.180 | 1 | 0.18 | Pass |

BT

| Frequency range (MHz) | Maximum Conducted Power (dBm) | Rated Power (dBm) | Antenna Gain (dBi) | Distance (cm) | Power Density (mW/cm²) | Limit (mW/cm2) | Ratio | Pass / Fail |
|-----------------------|--|-------------------------|--------------------------|------------------|------------------------------|-------------------|---------|----------------|
| 2402-2480 (EDR) | -8.64 | -8.5 | 1.7 | 22 | 0.00003 | 1 | 0.00003 | Pass |
| 2402-2480 (LE) | -6.19 | -6 | 1.7 | 22 | 0.00006 | 1 | 0.00006 | Pass |

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1.6 MPE EVALUATION OF SIMULTANEOUS TRANSMISSION

| Mode | Max Ratio of Each Mode |
|------------------------------------|------------------------|
| WLAN 2.4GHz | 0.18 |
| ZigBee | 0.011 |
| ВТ | 0.0006 |
| Lora | 0.273 |
| Sum WLAN 2.4G + ZigBee + BT + Lora | 0.464 |
| Limit | 1 |
| Pass / Fail | Pass |

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2 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website http://www.icertifi.com.tw.

Linkou

Tel: 886-2-2601-1640 No.30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan (R.O.C.)

Kwei Shan

Tel: 886-3-271-8666
No.3-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)
No.2-1, Lane 6, Wen San 3rd
St., Kwei Shan Dist., Tao Yuan
City 33381, Taiwan (R.O.C.)

Kwei Shan Site II

Tel: 886-3-271-8640 No.14-1, Lane 19, Wen San 3rd St., Kwei Shan Dist., Tao Yuan City 333, Taiwan (R.O.C.)

If you have any suggestion, please feel free to contact us as below information.

Tel: 886-3-271-8666 Fax: 886-3-318-0345

Email: ICC Service@icertifi.com.tw

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