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## SAR EXEMPTION REPORT

**Manufacturer:** Systec Dizainas UAB  
Vikpedes Str. 4  
03151 Lithuania

**Applicant:** Zehnder America  
6 Merrill Industrial Drive, Suite 7  
Hampton, New Hampshire 03842  
United States of America

**Product Name:** RF-RPT-925MHz

**Product Description:** Range extender for RF devices

**Model:** Repeater RF

**FCC ID:** 2A8X810018961

**Standard(s):**

- KDB447498 D04 Interim General RF Exposure Guidance v01
- FCC Rule Part 1.1307(b)(3)(i)(a)

**Report Constructed by:**

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**Report Reviewed by:**

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Order Number: F2P27924

Applicant: Zehnder America

Model: Repeater RF

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## **1 ADMINISTRATIVE INFORMATION**

### **1.1 Measurement Location:**

F2 Labs in Middlefield, Ohio. Site description and attenuation data are on file with the FCC's Sampling and Measurement Branch at the FCC Laboratory in Columbia, MD.

### **1.2 Document History**

Document Number	Description	Issue Date	Approved By
F2P27924-02E	First Issue	2023-10-26	K. Littell



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## 2 SUMMARY OF RESULTS

	Standard(s)	Results
SAR Exemption	- KDB447498 D04 Interim General RF Exposure Guidance v01 - FCC Rule Part 1.1307(b)(3)(i)(a)	Complies

Modifications Made to the Equipment
None



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### 3 ENGINEERING STATEMENT

This report has been prepared on behalf of Zehnder America, to provide documentation for the SAR Exemption herein. This equipment has been tested and found to comply with the SAR Exemption levels listed in FCC Rule Part 1.1307(b)(3)(i)(a).

#### *(3) Determination of exemption.*

*(i) 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);”*

The minimum distance from the antenna of the RF-RPT-925MHz is 5mm. The maximum Field Strength of the transmitter was 88.0 dB $\mu$ V/m at 3m which equals 0.222mW, which is well below the exemption limit of 1mW.

$$P(dBm) = E(dBuV/m) + 20LOG(d) - G - 104.77$$
$$88.0 + 9.542425 + 0.7 - 104.77 = -6.53$$

$$P(dBm) = -6.53 \text{ which is } 0.222mW$$



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## **4 EUT INFORMATION AND DATA**

### **4.1 Equipment Under Test:**

Product: **RF-RPT-925MHz**

Model: **Repeater RF**

Serial No.: ZOS22290001

Firmware: RF\_Repeater\_FCC\_v0.04.hex

Hardware: V00

FCC ID: **2A8X810018961**

### **4.2 Trade Name:**

Zehnder America

### **4.3 Power Supply:**

5VDC via USB

### **4.4 Applicable Rules:**

KDB447498

### **4.5 Antenna:**

WE-MCA Multilayer Chip Antenna Peak Gain -0.7 dB

### **4.6 Accessories:**

<b>Device</b>	<b>Manufacturer</b>	<b>Model Number</b>	<b>Serial Number</b>
Power Adapter	None Specified	XYYU-050100	None Specified