

Report No.: SZEM191102057105

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RF Exposure Evaluation Report

Application No.: SZEM1911020571CR

Applicant: UAB Teltonika

Address of Applicant: Saltoniskiu g.9B LT-08105, Vilnius, Lithuania

Manufacturer: UAB Teltonika

Address of Manufacturer: Saltoniskiu g.9B LT-08105, Vilnius, Lithuania

Factory: UAB Teltonika

Address of Factory: Saltoniskiu g.9B LT-08105, Vilnius, Lithuania

EUT Name: LTE Router Model No.: RUTX11 Trade mark: Teltonika

 FCC ID:
 2AET4RUTX11

 Standards:
 47 CFR Part 1.1307

 47 CFR Part 1.1310

47 CFR Part 2.1091

Date of Receipt: 2019-11-25

Date of Test: 2019-11-29 to 2019-12-13

Date of Issue: 2020-02-11

Test Result : PASS*

Keny Xu EMC Laboratory Manager

Ceny. Ku



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^{*} In the configuration tested, the EUT complied with the standards specified above.



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1 Version

| Revision Record | | | | | | | |
|-----------------|---------|------------|----------|----------|--|--|--|
| Version | Chapter | Date | Modifier | Remark | | | |
| 01 | | 2020-02-11 | | Original | | | |
| | | | | | | | |
| | | | | | | | |

| Authorized for issue by: | | |
|--------------------------|----------------------------|---|
| | Hay Un | |
| | Harry Wu /Project Engineer | |
| | EvicFu | |
| | Eric Fu /Reviewer | - |



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SGS-CSTC Standards Technical Services Co., Ltd.

Shenzhen Branch

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3 General Description of EUT

| Power Supply: | DC 12V | | | | | |
|----------------------|----------------------|----------------------------------|-----------------|----------|--|--|
| | AC/DC Adapter | | | | | |
| | Mode: SJ-12 | 015033 | | | | |
| | Input: AC100 | Input: AC100-240V, 50/60Hz, 0.8A | | | | |
| | Output: DC 12V, 1.5A | | | | | |
| | | | | | | |
| Cable: | DC Cable: 12 | 20cm, Unshielded | | | | |
| | Network Cab | le: 150cm, Unshielded | | | | |
| | BT Antenna: | 150cm, Unshielded | | | | |
| | GPS Antenna | a: 300cm, Unshielded | | | | |
| For BLE: | • | , | | | | |
| Operation Frequency: | 2402MHz~24 | I80MHz | | | | |
| Bluetooth Version: | V 4.0 | | | | | |
| Modulation Type: | GFSK | | | | | |
| Number of Channel: | 40 | | | | | |
| Antenna Type: | External Ante | enna | | | | |
| Antenna Gain: | 3dBi | | | | | |
| For 2.4G wifi: | | | | | | |
| Operation Frequency: | IEEE 802.11 | o/g/n(HT20): 2412MHz to 246 | 2MHz | | | |
| | IEEE 802.11 | n(HT40): 2422MHz to 2452MH | Hz | | | |
| Channel Numbers: | | b/g, IEEE 802.11n HT20: 11 C | Channels | | | |
| | IEEE 802.11 | n HT40: 7 Channels | | | | |
| Channel Separation: | 5MHz | | | | | |
| Type of Modulation: | | .11b: DSSS(CCK,DQPSK,DB | , | | | |
| | | .11g : OFDM(64QAM, 16QAM | , | _ | | |
| | | .11n(HT20 and HT40) : OFDN | Л (64QAM, 16QAN | ۸, | | |
| Antonio Timo | QPSK,BPSK | / | | | | |
| Antenna Type: | External Ante | | | | | |
| Antenna Gain: | | dBi, Antenna 2: 5dBi | | | | |
| For 5G wifi: | I wo antenna | s can not synchronous transm | ission. | | | |
| For 5G will. | T . | | | | | |
| | Band | Mode | Frequency | Number | | |
| | | Mode | Range(MHz) | of | | |
| | | | - , , | channels | | |
| Operation Frequency: | UNII Band | IEEE 802.11a | 5180-5240 | 4 | | |
| | | IEEE 802.11n/ac 20MHz | 5180-5240 | 4 | | |
| | | IEEE 802.11n/ac 40MHz | 5190-5230 | 2 | | |
| | | IEEE 802.11ac 80MHz | 5210 | 1 | | |
| | | | _ | | | |



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| | UNII Band | IEEE 802.11a | 5745-5825 | 5 | |
|---|--|-------------------------------|-----------|---|--|
| | | IEEE 802.11n/ac 20MHz | 5745-5825 | 5 | |
| | | IEEE 802.11n/ac 40MHz | 5755-5795 | 2 | |
| | | IEEE 802.11ac 80MHz | 5775 | 1 | |
| Type of Modulation: | IEEE 802.11a: OFDM(BPSK/QPSK/16QAM/64QAM) IEEE 802.11n: OFDM(BPSK/QPSK/16QAM/64QAM) IEEE 802.11ac: OFDM (BPSK/QPSK/16QAM/64QAM/256QAM) | | | | |
| Antenna type: | External Ante | enna | | | |
| Antenna gain | Antenna 1:50 | IBi; Antenna 2:5dBi | | | |
| | Two antenna | s can not synchronous transm | ission. | | |
| For 3G/LTE: | | | | | |
| Band: | WCDMA BAND II, BAND IV, BAND V | | | | |
| | LTE BAND 2 | ,4,5,7,12,13,25,26,30,66 | | | |
| Antenna type: | External Antenna | | | | |
| Antenna gain | WCDMA BAI | ND II:2dBi, BAND IV:2dBi, BAN | ND V:3dBi | | |
| | LTE BAND 2:2dBi, BAND 4:2dBi, BAND 5:3dBi, | | | | |
| BAND 7:2dBi, BAND 12:3dBi, BAND 13: 3dBi, | | | | | |
| BAND 25:2dBi, BAND 26: 3dBi, BAND 30: 0dBi, | | | | | |
| BAND66:2dBi | | | | | |



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3.1 Test Location

All tests were performed at:

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Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

3.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

· A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

3.3 Deviation from Standards

None.

3.4 Abnormalities from Standard Conditions

None.

3.5 Other Information Requested by the Customer

None.



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4 RF Exposure Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

Table 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency range (MHz) | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm²) | Averaging time (minutes) | |
|---|-------------------------------------|-------------------------------------|---|----------------------------|--|
| (A) Lim | its for Occupational | I/Controlled Exposu | res | | |
| 0.3–3.0 3.0–30 30–300 300–1500 1500–100,000 | 614 1842/f 61.4 | 1.63 4.89/f 0.163 | *(100) *(900/f²) 1.0 f/300 5 | 6 6 6 6 | |
| (B) Limits | for General Populati | ion/Uncontrolled Exp | oosure | | |
| 0.3–1.34 1.34–30 30–300 300–1500 1500–100,000 | 614 824/ī 27.5 | 1.63 2.19/f 0.073 | *(100) *(180/f²) 0.2 f/1500 1.0 | 30 30 30 30 30 | |

F= Frequency in MHz

Friis Formula

Friis transmission formula: $Pd = (Pout*G)/(4*Pi*R^2)$

Where

Pd = power density in mW/cm2

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

Pd id the limit of MPE, 1 mW/cm2. If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

4.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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4.1.3 EUT RF Exposure Evaluation

Remark: The Bluetooth, Wifi WCDMA and LTE functions can't synchronous transmission at the same time.

The RF Exposure Evaluations of WCDMA and LTE are referred to report: SZEM180500453602.

For BLE

Antenna: 3dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 2.0 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

| Channel | Antenna | Frequency | Max Conducted | Output Power | Power Density | Limit | Result |
|----------|---------|-----------|---------------|--------------|---------------|----------|--------|
| | | (MHz) | Peak Output | to Antenna | at R = 20 cm | (mW/cm2) | |
| | | | Power (dBm) | (mW) | (mW/cm2) | | |
| Hightest | 1 | 2480MHz | 9.65 | 9.23 | 0.004 | 1.0 | PASS |

Note: Refer to report No. SZEM191102057102 for EUT test Max Conducted Peak Output Power value.

The distancer (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

For 2.4G WIFI

Antenna 1: 5dBi, Antenna 2: 5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.16 in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

| Channel | Antenna | Frequency | Max Conducted | Output Power | Power Density | Limit | Result |
|---------|---------|-----------|---------------|--------------|---------------|----------|--------|
| | | (MHz) | Peak Output | to Antenna | at R = 20 cm | (mW/cm2) | |
| | | | Power (dBm) | (mW) | (mW/cm2) | | |
| Low | 1 | 2412MHz | 20.49 | 111.94 | 0.07 | 1.0 | PASS |

Note: Refer to report No. SZEM191102057103 for EUT test Max Conducted Peak Output Power value.

The distancer (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.



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For 5GHz WIFI

Antenna 1:5dBi; Antenna 2:5dBi

Antenna Gain: The maximum Gain measured in fully anechoic chamber is 3.16in linear scale.

Output Power Into Antenna & RF Exposure Evaluation Distance:

| Frequency | Antenna | Max Conducted | Output Power | Power Density | Limit | Result |
|-----------|---------|---------------|--------------|---------------|----------|--------|
| (MHz) | | Peak Output | to Antenna | at R = 20 cm | (mW/cm2) | |
| | | Power (dBm) | (mW) | (mW/cm2) | | |
| 5240 MHz | 1 | 14.55 | 28.51 | 0.018 | 1.0 | PASS |

Note: Refer to report No. SZEM191102057104 for EUT test Max Conducted Peak Output Power value. The distancer (4th column) calculated from the Fries transmission formula is far greater than 20 cm separation requirement.

- End of the Report -



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