



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251100500203

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TEST REPORT

Application No.: SZCR2511005002TL
Applicant: UAB Teltonika Networks
Address of Applicant: K. Barsausko st. 66, LT-51436, Kaunas, Lithuania
Manufacturer: TELTONIKA NETWORKS, UAB
Address of Manufacturer: K. Baršausko st. 66, LT-51436, Kaunas, Lithuania
Factory: TELTONIKA EMS, UAB
Address of Factory: Paluokesos st. 11, LT-33133, Molėtai, Lithuania
Equipment Under Test (EUT):
EUT Name: LTE Cat 4 Router
Model No.: RUT981
Trade Mark: TELTONIKA
FCC ID: 2AET4RUT981
Standard(s) : FCC Rules 47 CFR §2.1091
FCC Rules 47 CFR §1.1310
KDB 447498 D04 interim General RF Exposure Guidance v01
Date of Receipt: 2025-11-13
Date of Evaluation: 2025-11-19 to 2025-12-24
Date of Issue: 2026-01-04

Evaluation Result:	Pass*
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* In the configuration evaluated, the EUT complied with the standards specified above.

Keny Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch EMC Laboratory

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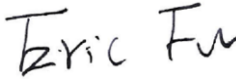
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-01-04		Original

Authorized for issue by:				
				
		Charlie Dai/Project Engineer		
				
		Eric Fu/Reviewer		

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3 General Information

3.1 General Description of E.U.T.

Product Type:	☐ Portable device
	☒ Mobile device
	☐ Fixed device

3.2 Details of E.U.T.

Power supply:	Model No.: ASSA107A-090100 Input: AC 100-240V, 50/60Hz, 0.45A Output: DC 9.0V, 1.0A, 9.0W
Cable(s):	DC cable from Adapter 200cm unshielded; LAN cable 154cm unshielded; 2 pcs WIFI antenna 19.5cm; 2 pcs Mobile antenna 19.5cm.
For 2.4G WIFI:	
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz, 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (DBPSK, DQPSK, CCK), 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM),
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20): 11 802.11n(HT40): 7
Antenna Type:	RP-SMA Dipole Antenna
Antenna Gain:	ANT 1&2: 5dBi
For GSM/WCDMA/LTE (Contains FCC ID: RI7LE910CXWWX)	
RF Characteristics:	Refer to report FCC ID: RI7LE910CXWWX
Antenna Type:	R-SMA Dipole Antenna
Antenna Gain:	2.49dBi@800 ~ 960 MHz 4.08dBi@1710 ~ 2690 MHz Note: 1. The antenna gain is provided by the manufacturer. 2. The specific values are subject to the calculation table below.

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

3.3 Separation Distance

Minimum test separation distance:	20cm
Remark: This minimum test separation distance is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.	



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3.4 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China. 518057.

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

No tests were sub-contracted.

3.5 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 (Member No. 1937)

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.

Shenzhen EMC laboratory 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: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

• 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.

3.6 Deviation from Standards

None

3.7 Abnormalities from Standard Conditions

None



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4 FCC Radiofrequency radiation exposure limits

According to ANSI/IEEE C95.1-1992, the criteria listed in table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310

TABLE 1 TO § 1.1310(E)(1)—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 (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3–3.0	614	1.63	*(100)	≤6
3.0–30	1842/f	4.89/f	*(900/f ²)	<6
30–300	61.4	0.163	1.0	<6
300–1,500			f/300	<6
1,500–100,000			5	<6
(ii) 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
300–1,500			f/1500	<30
1,500–100,000			1.0	<30

f = frequency in MHz. * = Plane-wave equivalent power density.



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5 Maximum transmit power

For 2.4G WIFI:

Antenna Gain: 5.00dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Mode	DG (dBi)	Max.Power	EIRP (dBm)	EIRP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio
2.4G WIFI	5	13.61	18.61	72.61059574	20	0.01444539	1	0.0144454

Note: Refer to report No. SZCR251100500202 for EUT test Max Power Value.

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For GSM/WCDMA/LTE (Contains FCC ID: RI7LE910CXWWX):

Mode	Gain (dBi)	Max.Power	Max.Power (dBm)	EIRP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio
GSM 850	2.49	27.5	29.99	997.7000638	20	0.19848566	0.549	0.3615404
PCS 1900	4.08	24.5	28.58	721.1074792	20	0.14345944	1	0.1434594
WCDMA B2	4.08	24.5	28.58	721.1074792	20	0.14345944	1	0.1434594
WCDMA B4	4.08	24.5	28.58	721.1074792	20	0.14345944	1	0.1434594
WCDMA B5	2.49	24.5	26.99	500.034535	20	0.09947848	0.549	0.1811994
LTE Band 2	4.08	24	28.08	642.6877173	20	0.12785836	1	0.1278584
LTE Band 4	4.08	24	28.08	642.6877173	20	0.12785836	1	0.1278584
LTE Band 5	2.49	24	26.49	445.6562484	20	0.08866029	0.549	0.1614941
LTE Band 7	4.08	24	28.08	642.6877173	20	0.12785836	1	0.1278584
LTE Band 8	2.49	24	26.49	445.6562484	20	0.08866029	0.599	0.1480138
LTE Band 12	2.49	24	26.49	445.6562484	20	0.08866029	0.466	0.1902581
LTE Band 13	2.49	24	26.49	445.6562484	20	0.08866029	0.518	0.1711589
LTE Band 14	2.49	24	26.49	445.6562484	20	0.08866029	0.525	0.1688767
LTE Band 25	4.08	24	28.08	642.6877173	20	0.12785836	1	0.1278584
LTE Band 26	2.49	24	26.49	445.6562484	20	0.08866029	0.543	0.1632786

Note: The above power data is from the module report with FCC ID: RI7LE910CXWWX.



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Exposure condition for simultaneous transmission operations

Either SAR-based or MPE-based exemption may be considered for test exemption for fixed, mobile, or portable device exposure conditions; therefore, the contributions from each exemption in conjunction with the measured SAR (Evaluated_k term) shall be used to determine exemption for simultaneous transmission according to Formula (C.1) [repeated from § 1.1307(b)(3)(ii)(B)].

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure Limit_k} \leq 1 \quad (C.1)$$

Remark:

a -number of fixed, mobile, or portable RF sources claiming exemption using the §1.1307(b)(3)(i)(B) formula for P_{th}, including existing exempt transmitters and those being added.

b -number of fixed, mobile, or portable RF sources claiming exemption using the applicable § 1.1307(b)(3)(i)(C) Table 1 formula for Threshold ERP, including existing exempt transmitters and those being added.

c -number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance.

P_i -the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

P_{th,i} -the exemption threshold power (P_{th}) according to the § 1.1307(b)(3)(i)(B) formula for fixed, mobile, or portable RF source i.

ERP_j -the available maximum time-averaged power or the ERP, whichever is greater, of fixed, mobile, or portable RF source j. ERP_{th,j}

-exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least λ/2π, according to the applicable § 1.1307(b)(3)(i)(C) Table 1 formula at the location in question.

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Evaluated_k -the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation.

Exposure Limit_k -either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable sources, as applicable

The Max. sum of the ratios = 2.4G WIFI+ LTE/NR= 0.014 +0.362 = 0.376 < 1

Therefore, the device is to qualify for simultaneous transmission SAR test exemption, the exemption report is in lieu of the SAR report.

So, the device is to qualify for SAR test exemption, the exemption report is in lieu of the SAR report.



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6 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2511005002AT.

-End of the Report-

