



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

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251100489403

Page: 1 of 15

TEST REPORT

Application No.: SZCR2511004894TL
Applicant: UAB Teltonika Networks
Address of Applicant: K. Barsausko st. 66, Kaunas LT-51436 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: 5G RedCap Router
Model No.: RUT276
Trade Mark: TELTONIKA
FCC ID: 2AET4RUT276
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: 2025-11-10
Date of Evaluation: 2025-11-13 to 2025-11-21
Date of Issue: 2025-12-15

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.
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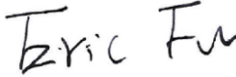
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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251100489403

Page: 2 of 15

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-12-15		Original

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

2 Contents

	Page
1 Cover Page	1
2 Contents	3
3 General Information	4
3.1 General Description of E.U.T.	4
3.2 Details of E.U.T.	4
3.3 Separation Distance	8
3.4 Test Location	9
3.5 Test Facility	9
3.6 Deviation from Standards	9
3.7 Abnormalities from Standard Conditions	9
4 FCC Radiofrequency radiation exposure limits	10
5 Maximum transmit power	11
6 EUT Constructional Details (EUT Photos)	15



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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:	Power by DC 9-57V		
Cable(s):	LAN cable 156cm unshielded; 1 pcs WIFI antenna 9.5cm unshielded; 2 pcs Mobile antenna 9.5cm shielded.		
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 (CCK, DQPSK, DBPSK), 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)		
Channel Spacing:	5MHz		
Number of Channels:	802.11b/g/n(HT20): 11, 802.11n(HT40):7		
Antenna Type:	RP-SMA Dipole Antenna		
Antenna Gain:	4.81dBi		
Cable Loss (for RF conducted test):	0.7dB		
For LTE/NR (Contains FCC ID: XMR2024RG255CGL):			
Characteristics	Description		
Radio System Type	☒ LTE		
Modulation Type	QPSK, 16QAM, 64QAM, 256QAM		
Supported Frequency Range	Band	TX	RX
	LTE Band 2	1850 to 1910 MHz	1930 to 1990 MHz
	LTE Band 4	1710 to 1755 MHz	2110 to 2155 MHz
	LTE Band 5	824 to 849 MHz	869 to 894 MHz
	LTE Band 7	2500 to 2570 MHz	2620 to 2690 MHz
	LTE Band 12	699 to 716 MHz	729 to 746 MHz
	LTE Band 13	777 to 787 MHz	746 to 756 MHz
	LTE Band 14	788 to 798 MHz	758 to 768 MHz

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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251100489403

Page: 5 of 15

	LTE Band 17	704 to 716 MHz		734 to 746 MHz	
	LTE Band 25	1850 to 1915MHz		1930 to 1995 MHz	
	LTE Band 26 (814 to 824 MHz)	814 to 824MHz		859 to 869 MHz	
	LTE Band 26 (824 to 849 MHz)	824 to 849 MHz		869 to 894 MHz	
	LTE Band 30	2305 to 2315 MHz		2350 to 2360 MHz	
	LTE Band 38	2570 to 2620 MHz		2570 to 2620 MHz	
	LTE Band 41	2496 to 2690MHz		2496 to 2690MHz	
	LTE Band 42	3450 to 3550 MHz		3450 to 3550 MHz	
	LTE Band 42_ Part96	3550 to 3600 MHz		3550 to 3600 MHz	
	LTE Band 43	3700 to 3800 MHz		3700 to 3800 MHz	
	LTE Band 43_ Part96	3600 to 3700 MHz		3600 to 3700 MHz	
	LTE Band 48	3550 to 3700 MHz		3550 to 3700 MHz	
	LTE Band 66	1710 to 1780 MHz		2110 to 2200 MHz	
	LTE Band 70	1695 to 1710 MHz		1995 to 2020 MHz	
	LTE Band 71	663 to 698 MHz		617 to 652 MHz	
Supported Channel Bandwidth	LTE Band 2	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
		☒ 15 MHz	☒ 20 MHz		
	LTE Band 4	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
		☒ 15 MHz	☒ 20 MHz		
	LTE Band 5	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
	LTE Band 7	☒ 5 MHz	☒ 10 MHz	☒ 15 MHz	☒ 20 MHz
	LTE Band 12	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
	LTE Band 13	☒ 5 MHz	☒ 10 MHz		
	LTE Band 14	☒ 5 MHz	☒ 10 MHz		
	LTE Band 17	☒ 5 MHz	☒ 10 MHz		
	LTE Band 25	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
		☒ 15 MHz	☒ 20 MHz		
	LTE Band 26(814-824)	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
	LTE Band 26(824-849)	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
		☒ 15 MHz			



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Report No.: SZCR251100489403

Page: 6 of 15

	LTE Band30	☒ 5 MHz	☒ 10 MHz		
	LTE Band38	☒ 5 MHz	☒ 10 MHz	☒ 15 MHz	☒ 20 MHz
	LTE Band41	☒ 5 MHz	☒ 10 MHz	☒ 15 MHz	☒ 20 MHz
	LTE Band42	☒ 5 MHz	☒ 10 MHz	☒ 15 MHz	☒ 20 MHz
	LTE Band43	☒ 5 MHz	☒ 10 MHz	☒ 15 MHz	☒ 20 MHz
	LTE Band48	☒ 5 MHz	☒ 10 MHz	☒ 15 MHz	☒ 20 MHz
	LTE Band66	☒ 1.4 MHz	☒ 3 MHz	☒ 5 MHz	☒ 10 MHz
		☒ 15MHz	☒ 20MHz		
	LTE Band70	☒ 5MHz	☒ 10MHz	☒ 15MHz	
	LTE Band71	☒ 5MHz	☒ 10MHz	☒ 15MHz	☒ 20MHz
HPUE Power Class:	Class 3 Class 2: LTE Band 38, 41, 42, 43				
Antenna Type:	R-SMA Dipole Antenna				
Antenna Gain:	Max. 2.92dBi Note: 1. The antenna gain is provided by the manufacturer. 2. The specific values are subject to the calculation table below.				
Radio System Type	☒ SA ☐ NSA				
Modulation Type	DFT-s-Pi/2-BPSK, DFT-s-QPSK, DFT-s-16QAM, DFT-s-64QAM, DFT-s-256QAM, CP-QPSK, CP-16QAM, CP-64QAM, CP-256QAM				
Supported Frequency Range	Band	TX		RX	
	NR Band n2	1850 to 1910 MHz		1930 to 1990 MHz	
	NR Band n5	824 to 849 MHz		869 to 894 MHz	
	NR Band n7	2500 to 2570 MHz		2620 to 2690 MHz	
	NR Band n12	699 to 716 MHz		729 to 746 MHz	
	NR Band n13	777 to 787 MHz		746 to 756 MHz	
	NR Band n14	788 to 798 MHz		758 to 768 MHz	
	NR Band n25	1850 to 1915MHz		1930 to 1995 MHz	
	NR Band n26 (814 to 824 MHz)	814 to 824MHz		859 to 869 MHz	
	NR Band n26 (824 to 849 MHz)	824 to 849 MHz		869 to 894 MHz	



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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251100489403

Page: 7 of 15

Supported Channel Bandwidth	NR Band n30	2305 to 2315 MHz	2350 to 2360 MHz
	NR Band n38	2570 to 2620 MHz	2570 to 2620 MHz
	NR Band n41	2496 to 2690 MHz	2496 to 2690 MHz
	NR Band n66	1710 to 1780 MHz	2110 to 2200 MHz
	NR Band n70	1695 to 1710 MHz	1995 to 2020 MHz
	NR Band n71	663 to 698 MHz	617 to 652 MHz
	NR Band n77	3700 to 3980 MHz	3700 to 3980 MHz
		3450 to 3550 MHz	3450 to 3550 MHz
	NR Band n78	3700 to 3800 MHz	3700 to 3800 MHz
		3450 to 3550 MHz	3450 to 3550 MHz
	NR Band n2	SCS 15kHz:	
		☒ 5 MHz	☒ 10 MHz ☒ 15 MHz ☒ 20 MHz
	NR Band n5	SCS 15kHz:	
		☒ 5 MHz	☒ 10 MHz ☒ 15 MHz ☒ 20 MHz
	NR Band n7	SCS 15kHz:	
		☒ 5 MHz	☒ 10 MHz ☒ 15 MHz ☒ 20 MHz
	NR Band n12	SCS 15kHz:	
		☒ 5 MHz	☒ 10 MHz ☒ 15 MHz
	NR Band n13	SCS 15kHz:	
		☒ 5 MHz	☒ 10 MHz
	NR Band n14	SCS 15kHz:	
		☒ 5 MHz	☒ 10 MHz
	NR Band n25	SCS 15kHz:	
		☒ 5 MHz	☒ 10 MHz ☒ 15 MHz ☒ 20 MHz
	NR Band n26 (814 to 824 MHz)	SCS 15kHz:	
		☒ 5 MHz	☒ 10 MHz
	NR Band n26 (824 to 849 MHz)	SCS 15kHz:	
		☒ 5 MHz	☒ 10 MHz ☒ 15 MHz ☒ 20 MHz
	NR Band n30	SCS 15kHz:	
		☒ 5 MHz	☒ 10 MHz
	NR Band n38	SCS 30kHz:	



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		☒ 10 MHz	☒ 15 MHz	☒ 20 MHz	
NR Band n41	SCS 30kHz:				
	☒ 10 MHz	☒ 15 MHz	☒ 20 MHz		
NR Band n66	SCS 15kHz:				
	☒ 5 MHz	☒ 10 MHz	☒ 15 MHz	☒ 20 MHz	
NR Band n70	SCS 15kHz:				
	☒ 5 MHz	☒ 10 MHz	☒ 15 MHz		
NR Band n71	SCS 15kHz:				
	☒ 5 MHz	☒ 10 MHz	☒ 15 MHz	☒ 20 MHz	
NR Band n77	SCS 30kHz				
	☒ 10 MHz	☒ 15 MHz	☒ 20 MHz		
NR Band n78	SCS 30kHz				
	☒ 10 MHz	☒ 15 MHz	☒ 20 MHz		
HPUE Power Class:	Class 3 Class 2: NR Band 38, 41, 77, 78				
Antenna Type:	R-SMA Dipole Antenna				
Antenna Gain:	Max. 2.92dBi 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.	

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.

5 Maximum transmit power

For 2.4G WIFI:

Antenna Gain: 4.81dBi

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	4.81	7.64	12.45	17.57923614	20	0.00349727	1	0.0034973

Note: Refer to report No. SZCR251100489402 for EUT test Max Power Value.



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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251100489403

Page: 12 of 15

For LTE/NR (Contains FCC ID: XMR2024RG255CGL)

Mode	Gain (dBi)	Max. Gain Allowed (dBi)	Max.Power	Max.Power (dBm)	EIRP (mW)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio
LTE Band 2	2.36	8	25	27.36	544.5026528	20	0.108	1	0.108
LTE Band 4	2.16	5	25	27.16	519.9959965	20	0.103	1	0.103
LTE Band 5	2.26	9.41	25	27.26	532.1082593	20	0.106	0.549	0.193
LTE Band 7	2.92	8	25	27.92	619.4410751	20	0.123	1	0.123
LTE Band 12	0.85	8.7	25	25.85	384.591782	20	0.077	0.466	0.165
LTE Band 13	2.74	9.16	25	27.74	594.2921586	20	0.118	0.518	0.228
LTE Band 14	2.86	9.23	25	27.86	610.9420249	20	0.122	0.525	0.232
LTE Band 17	0.84	8.74	25	25.84	383.7072455	20	0.076	0.469	0.162
LTE Band 25	2.36	8	25	27.36	544.5026528	20	0.108	1	0.108
LTE Band 26 (814-824)	2.29	9.36	25	27.29	535.7966575	20	0.107	0.543	0.197
LTE Band 26 (824-849)	2.29	9.41	25	27.29	535.7966575	20	0.107	0.55	0.195
LTE Band 30	-0.05	-0.02	24	24	251.1886432	20	0.05	1	0.05
LTE Band 38	1.69	5	28	29.69	931.1078755	20	0.185	1	0.185
LTE Band 41	1.84	5	28	29.84	963.8290236	20	0.192	1	0.192
LTE Band 42	1.76	2	28	29.76	946.2371614	20	0.188	1	0.188
LTE Band 42 (Part 96)	-5.32	-5	28	28	630.9573445	20	0.126	1	0.126
LTE Band 43	1.19	2	28	29.19	829.8507675	20	0.165	1	0.165
LTE Band 43 (Part 96)	-5.32	-5	28	28	630.9573445	20	0.126	1	0.126
LTE Band 48	-2.46	-2	25	25	316.227766	20	0.063	1	0.063
LTE Band 66	2.28	5	25	27.28	534.5643594	20	0.106	1	0.106
LTE Band 70	2.48	5	25	27.48	559.7576015	20	0.111	1	0.111
LTE Band 71	1.03	8.48	25	26.03	400.8667176	20	0.08	0.442	0.181
NR Band 2	2.36	8	25	27.36	544.5026528	20	0.108	1	0.108
NR Band 5	2.26	9.42	25	27.26	532.1082593	20	0.106	0.549	0.193
NR Band 7	2.92	8	25	27.92	619.4410751	20	0.123	1	0.123
NR Band 12	0.85	8.71	25	25.85	384.591782	20	0.077	0.468	0.165
NR Band 13	2.74	9.16	25	27.74	594.2921586	20	0.118	0.52	0.227
NR Band 14	2.86	9.23	25	27.86	610.9420249	20	0.122	0.527	0.231
NR Band 25	2.36	8	25	27.36	544.5026528	20	0.108	1	0.108
NR Band 26 (814-824)	2.29	9.37	25	27.29	535.7966575	20	0.107	0.544	0.197
NR Band 26 (824-849)	2.29	9.42	25	27.29	535.7966575	20	0.107	0.551	0.194
NR Band 30	-0.05	-0.02	24	24	251.1886432	20	0.05	1	0.05
NR Band 38	1.69	5	28	29.69	931.1078755	20	0.185	1	0.185
NR Band 41	1.84	5	28	29.84	963.8290236	20	0.192	1	0.192
NR Band 66	2.28	5	25	27.28	534.5643594	20	0.106	1	0.106
NR Band 70	2.48	5	25	27.48	559.7576015	20	0.111	1	0.111
NR Band 71	1.03	8.48	25	26.03	400.8667176	20	0.08	0.442	0.181

Note: The above power data is from the module report with FCC ID: XMR2024RG255CGL.



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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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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251100489403

Page: 14 of 15

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= 0.003 +0.232 = 0.235 < 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 SZCR2511004894AT

-End of the Report-



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