

RF EXPOSURE REPORT



Applicant: Manufacturer:	Sercomm Corporation 8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan, R.O.C. Sercomm Corporation 8F, No. 3-1, YuanQu St., NanKang, Taipei 115, Taiwan, R.O.C.
Product Name:	RedCap REL17 Mobile Adapter
Brand Name:	MOSO networks
Model No.:	Connect 5GRC
FCC ID	P27-CONNECT5GRC
Date of EUT Received:	Feb. 10, 2025
Issue Date:	Mar. 07, 2025

John Teh

Approved By

John Yeh

We hereby certify that:

The above equipment was evaluated by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1091, KDB 447498 D01 v06.

The results of this report relate only to the sample identified in this report.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Revision History								
Report Number	Revision	Description	Issue Date	Revised By	Remark			
TESA2502000156ES	00	Original	Mar. 07, 2025	Kimmy Chiou				

Note:

1 • The remark "*" indicates modification of the report upon requests from certification body.

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DESCRIPTION OF EQUIPMENT UNDER TEST (EUT) 1

1.1 **Product Description**

Product Name:	RedCap REL17 Mobile Adapter
Brand Name:	MOSO networks
Model No.:	Connect 5GRC

Evaluation site 1.2

Laboratory		Site Address	FCC Designation number	ISED Company Number	CAB Identifier	
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	\boxtimes	No. 134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, 24803, Taiwan.	TW0027	4620A	TW3702	
		No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 333 Taiwan.	TW0028	4620E		
		1F, No. 8, Alley 15, Lane 120, Sec. 1, Nei Hu Road, Neihu District, Taipei City, 222 Taiwan.	TW0029	23862		

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MAXIMUM PERMISSIBLE EXPOSURE (MPE) 2

2.1 **FCC Standard Applicable**

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Mobile device, the MPE is required.

According to §1.1310 and §2.1091 RF exposure is calculated.

Limits for Maximum Permissive Exposure (MPE)

Frequency Range	Electric Field	Magnetic Field	Power Density	Averaging Time					
(MHz)	Strength (V/m)	Strength (A/m)	(mW/cm ²)	(minute)					
	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					
300-1500	/	/	f/1500	30					
1500-100000	/	/	1.0	30					

f = frequency in MHz

* = Plane-wave equipment power density

Prediction of MPE limit at a given distance $S=PG/4\pi R^2$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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2.2 **Power Density Calculation (Worst Case)**

FCC Standalone MPE

Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Max.Output Power Include Tolerance (dBm)	Antenna Gain (dBi)	Max. EIRP (mW)	Power Density (PD) (mW/cm ²)	Limit (mW/cm ²)	Pass / Fail	Power Density / Limit
LTE-Band 48	3552.50	20	19	3.50	177.83	0.035	1.000	Pass	0.035
5GNR n48	3552.50	20	19	3.50	177.83	0.035	1.000	Pass	0.035

Note: For conservativeness, the lowest uplink frequency of each band is used to determine the MPE limit of that band.

~ End of Report ~

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