

RF EXPOSURE REPORT



FCC Applicant / Manufacturer: TaiDoc Technology Corp
6F, No. 127, Wugong 2nd Rd., Wugu Dist., 248 New Taipei City, Taiwan

Product Name: TeleHealth Gateway

Brand Name: FORA

Model No.: TD-9017G, GW9017g, TD-9017X(X=0~9, A~F, H~Z and blank)

Model Difference: For different product exterior color, market

Report Number: ER/2021/80055

FCC ID TM79017GLTE

Issue Date: Dec. 29, 2021

Date of EUT Received: Aug. 18, 2021

Approved By _____

John Yeh

We hereby certify that:

The above equipment was evaluate by SGS Taiwan Ltd. The evaluation in this report is in compliance with FCC Rule Part §2.1091.

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
ER/2021/80055	00	Original.	Dec. 29, 2021	Yami Kuo

Note:

- Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received and are assessed as identical in hardware and firmware to each other.

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1 DESCRIPTION OF EQUIPMENT UNDER TEST (EUT)

1.1 Product Description

Product Name:	TeleHealth Gateway
Brand Name:	FORA
Model No.:	TD-9017G, GW9017g, TD-9017X(X=0~9,A~F,H~Z and blank)
Model Difference:	For different product exterior color, market
Hardware Version:	N/A
Firmware Version:	N/A
EUT Series No.:	901772134000013(Normal conducted) 901772134000024(Conducted) 901772134000035(Conducted for Voltage control) 901772134000046(Conduction & Radiated)
Power Supply:	6Vdc from AC/DC Adapter

Note: This device will not transmit BLE and WWAN at the same time.

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1.2 Antenna Information:

1.2.1 BT

Antenna Type	Supplier	Antenna Part No.	Freq. (MHz)	Peak Antenna Gain (dBi)
CHIP	Yageo	CAN4311712002453K	2.4GHz	5.05

1.2.2 WWAN

Antenna Type	Antenna Part No.
PCB	C1947-510005-A

Operating Frequency (MHz)				Peak Gain (dBi)
LTE-Band 2	1850	~	1910	4.1
LTE-Band 4	1710	~	1755	4.1
LTE-Band 12	699	~	716	4.1

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1.3 Rated Power

1.3.1 Bluetooth

Mode	Freq. Range (MHz)	Channels	Module	Modulation Technology	Max Output Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Worst Case
BLE	2402-2480	40	TD-9030A	GFSK	-2.35	5.05	2.70	V

1.3.2 WWAN:

Operating Frequency (MHz)				Module	Max. Output Power (dBm)	Antenna Gain (dBi)	EIRP / ERP (dBm)	FCC				
								Operation Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Density / Limit	FCC Worst Case
LTE-Band 2	1850	~	1910	PLS62-W	23.08	4.10	27.18	20	0.10	1.00	0.10	
LTE-Band 4	1710	~	1755		23.19	4.10	27.29	20	0.11	1.00	0.11	
LTE-Band 12	699	~	716		22.14	4.10	26.24	20	0.08	0.47	0.17	V

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2 FCC MAXIMUM PERMISSIBLE EXPOSURE (MPE)

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 Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (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
BLE	2402.00	20	-2.35	5.05	1.86	0.0004	1.000	Pass	0.000
LTE-Band 2	1850.70	20	23.08	4.10	522.40	0.104	1.000	Pass	0.104
LTE-Band 4	1710.70	20	23.19	4.10	535.80	0.107	1.000	Pass	0.107
LTE-Band 12	699.70	20	22.14	4.10	420.73	0.084	0.466	Pass	0.180

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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