



Maximum Permissible Exposure Evaluation

FCC ID: 2BB6E-GLMD25A01

According to FCC 1.1310: 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 §1.1307(b).

EUT Specification

Product Name:	4G Wireless Data Terminal
Trade Mark:	GlocalMe
Model/Type Reference:	GLMD25A01
Listed Model(s):	/
Model Differences:	/
Frequency Band (Operating)	WLAN: 2412MHz ~ 2462MHz WCDMA Band II: UL: 1852.4MHz~1907.6MHz, DL: 1932.6MHz~1987.4MHz WCDMA Band IV: UL: 1712.4MHz~1752.6MHz, DL: 2112.6MHz~2152.4MHz WCDMA Band V: UL: 826.4MHz~846.6MHz, DL: 871.6MHz~1891.4MHz LTE Band 2: UL: 1850.7MHz~1909.3MHz, DL: 1930.7MHz~1989.3MHz LTE Band 4: UL: 1710.7MHz~1754.3MHz, DL: 2110.7MHz~2154.3MHz LTE Band 5: UL: 824.7MHz~848.3MHz, DL: 869.7MHz~893.3MHz LTE Band 7: UL: 2502.5MHz~2567.5MHz, DL: 2622.5MHz~2687.5MHz LTE Band 12: UL: 699.7MHz~715.3MHz, DL: 729.7MHz~745.3MHz LTE Band 13: UL: 779.5MHz~784.5MHz, DL: 748.5MHz~751.0MHz LTE Band 17: UL: 706.5MHz~713.5MHz, DL: 736.5MHz~743.5MHz LTE Band 25: UL: 1850.7MHz~1914.3MHz, DL: 1930.7MHz~1994.3MHz LTE Band 26 (814~824MHz): UL: 814MHz~824MHz, DL: 859MHz~869MHz LTE Band 26 (824~849MHz): UL: 824MHz~849MHz, DL: 869MHz~894MHz LTE Band 38: UL: 2570MHz~2620MHz, DL: 2570MHz~2620MHz LTE Band 41: UL: 2498.5MHz~2687.5MHz, DL: 2498.5MHz~2687.5MHz LTE Band 66: UL: 1710.7MHz~1779.3MHz, DL: 2110.7MHz~2179.3MHz
Device Category	☐ Portable (<5mm separation) ☐ Mobile (>20cm separation) ☒ Fixed (>20cm separation) ☐ Others _____
Exposure Classification	☐ Occupational/Controlled exposure (S=5mW/cm ²) ☒ General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna Diversity	☐ Single antenna ☒ Multiple antennas ☐ TX diversity ☐ RX diversity ☐ TX/RX diversity
Antenna Gain (Max)	WLAN: -0.3dBi Max WCDMA Band II: 1.4dBi Max WCDMA Band IV: 0.2dBi Max WCDMA Band V: -4.7dBi Max LTE Band 2: 1.4dBi Max LTE Band 4: 0.2dBi Max LTE Band 5: -4.7dBi Max

CTC Laboratories, Inc.

Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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	LTE Band 7: 1.7dBi Max LTE Band 12: -16.1dBi Max LTE Band 13: -7.3dBi Max LTE Band 17: -16.1dBi Max LTE Band 25: 1.4dBi Max LTE Band 26 (814~824MHz): -5.4dBi Max LTE Band 26 (824~849MHz): -4.7dBi Max LTE Band 38: 0.8dBi Max LTE Band 41: 1.7dBi Max LTE Band 66: 0.4dBi Max
Evaluation Applied	☒ MPE Evaluation ☐ SAR Evaluation

**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)
(A) Limits for Occupational/Controlled Exposure				
300-1500	--	--	F/300	<6
1500-100000	--	--	5	<6
(B) Limits for General Population/Uncontrolled Exposure				
300-1500	--	--	F/1500	<30
1500-100000	--	--	1	<30

Note: F = MHz

Calculation MethodFriis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where:

Pd= Power density in mW/cm²P_{out}= 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 limit of MPE is 1mW/cm². If we know the maximum gain of the antenna and total power input to the antenna, through the calculation, we will know the distance where the MPE limit is reached.

**Measurement Result**

Mode	Frequency (MHz)	Antenna Gain (dBi)	Maximum Power (dBm)	Tune Up Tolerance (dB)	Max. Tune Up Power (dBm)	Power Density at 20cm (mW/cm ²)	Limit (mW/cm ²)
802.11g	2437	-0.3	18.15	± 1	19.50	0.0165	1
WCDMA Band II	1907.6	1.4	23.71	± 1	25.00	0.0868	1
WCDMA Band IV	1752.6	0.2	23.58	± 1	24.50	0.0587	1
WCDMA Band V	826.4	-4.7	24.37	± 1	25.50	0.0239	0.55
LTE Band 2	1860	1.4	23.43	± 1	24.50	0.0774	1
LTE Band 4	1747.5	0.2	23.60	± 1	25.00	0.0659	1
LTE Band 5	846.5	-4.7	23.55	± 1	24.50	0.0190	0.56
LTE Band 7	2567.5	1.7	24.51	± 1	25.50	0.1044	1
LTE Band 12	707.5	-16.1	23.39	± 1	24.50	0.0014	0.47
LTE Band 13	779.5	-7.3	23.86	± 1	25.00	0.0117	0.52
LTE Band 17	710	-16.1	23.46	± 1	24.50	0.0014	0.47
LTE Band 25	1860	1.4	23.50	± 1	24.50	0.0774	1
Band 26 (814~824)	816.5	-5.4	23.98	± 1	25.00	0.0181	0.54
Band 26 (824~849)	824.7	-4.7	23.67	± 1	25.00	0.0213	0.55
LTE Band 38	2610	0.8	24.67	± 1	26.00	0.0952	1
LTE Band 41	2593	1.7	24.60	± 1	26.00	0.1172	1
LTE Band 66	1745	0.4	23.40	± 1	24.50	0.0615	1

The WIFI and LTE can transmit simultaneously.

WIFI Power density at 20cm (mW/cm ²)	WCDMA Power density at 20cm (mW/cm ²)	Total Power density at 20cm (mW/cm ²)	Power density Limit (mW/cm ²)
0.0165	0.1172	0.1337	1

Note:

1. Calculate in the worst-case mode.
2. Max. Tune Up Power is declared by manufacturer, and used to calculate.
3. For a more detailed features description, please refer to the RF Test Report.

*****THE END*****

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