



Maximum Permissible Exposure Evaluation

FCC ID: 2BB6E-GLMX24A01

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:	GLMX24A01
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: 0.8dBi Max WCDMA Band II: 0.7dBi Max WCDMA Band IV: -1.7dBi Max WCDMA Band V: -5.8dBi Max Band 2: 0.7dBi Max Band 4: -1.7dBi Max Band 5: -5.8dBi Max

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	Band 7: -3.4dBi Max Band 12: -7.7dBi Max Band 13: -7.9dBi Max Band 17: -7.7dBi Max Band 25: -0.7dBi Max Band 26 (814~824MHz): -5.7dBi Max Band 26 (824~849MHz): -5.8dBi Max Band 38: -5.5dBi Max Band 41: -3.1dBi Max Band 66: -1.5dBi 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)
802.11ax(HE40)	2422	0.8	18.58	±1	19.50	0.0213	1
WCDMA Band II	1852.4	0.7	23.26	±1	24.50	0.0659	1
WCDMA Band IV	1712.4	-1.7	23.74	±1	25.00	0.0425	1
WCDMA Band V	826.4	-5.8	24.70	±1	26.00	0.0208	0.55
LTE Band 2	1860	0.7	23.16	±1	24.50	0.0659	1
LTE Band 4	1711.5	-1.7	23.57	±1	24.50	0.0379	1
LTE Band 5	836.5	-5.8	23.78	±1	25.00	0.0165	0.56
LTE Band 7	2502.5	-3.4	23.68	±1	25.00	0.0288	1
LTE Band 12	699.7	-7.7	24.32	±1	25.50	0.0120	0.47
LTE Band 13	779.5	-7.9	24.19	±1	25.50	0.0114	0.52
LTE Band 17	710	-7.7	24.12	±1	25.50	0.0120	0.47
LTE Band 25	1882.5	-0.7	23.99	±1	25.00	0.0535	1
Band 26 (814~824)	814.7	-5.7	24.02	±1	25.00	0.0169	0.54
Band 26 (824~849)	848.3	-5.8	25.18	±1	26.50	0.0234	0.57
LTE Band 38	2575	-5.5	23.71	±1	25.00	0.0177	1
LTE Band 41	2593	-3.1	23.42	±1	24.50	0.0275	1
LTE Band 66	1770	-1.5	24.32	±1	25.50	0.0500	1

The WIFI and WCDMA 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)
0.0213	0.0659	0.0872	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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