

RF Exposure Report

Report No.: MFBHKI-WTW-P21120244A

FCC ID: NKRUMC-MT2731CBN

Test Model: UMC-MT2731CBN

Received Date: Nov. 01, 2021

Test Date: Jan. 17 ~ Feb. 24, 2022

Issued Date: Jan. 02, 2025

Applicant: Wistron NeWeb Corporation

Address: 20 Park Ave. II, Hsinchu Science Park, Hsinchu 308, Taiwan

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
33383, TAIWAN

FCC Registration / 788550 / TW0003
Designation Number:



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Release Control Record

Issue No.	Description	Date Issued
MFBHKI-WTW-P21120244A	Original release	Jan. 02, 2025

1 Certificate of Conformity

Product: Cellular module

Brand: WNC

Test Model: UMC-MT2731CBN

Sample Status: Engineering sample

Applicant: Wistron NeWeb Corporation

Test Date: Jan. 17 ~ Feb. 24, 2022

Standards: FCC Part 2 (Section 2.1091)

References Test Guidance: KDB 447498 D01 General RF Exposure Guidance v06

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Celine Chou , **Date:** Jan. 02, 2025
Celine Chou / Senior Specialist

Approved by : Jeremy Lin , **Date:** Jan. 02, 2025
Jeremy Lin / Project Engineer

2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

2.2 MPE Calculation Formula

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

r = distance between observation point and center of the radiator in cm

2.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

3 Calculation Result of Maximum Conducted Power

Mode	Max ERP Power (dBm)	Max EIRP Power (dBm)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
GPRS 850	30.65	32.80	20	0.379	0.549
GPRS 1900	-	30.41	20	0.219	1.000
LTE Band 2	-	24.84	20	0.061	1.000
LTE Band 4	-	24.45	20	0.055	1.000
LTE Band 5	23.11	25.26	20	0.067	0.549
LTE Band 7	-	24.94	20	0.062	1.000
LTE Band 12	23.18	25.33	20	0.068	0.466
LTE Band 14	23.32	25.47	20	0.070	0.527
LTE Band 17	23.19	25.34	20	0.068	0.471
LTE Band 25	-	24.73	20	0.059	1.000
LTE Band 26	23.25	25.40	20	0.069	0.543
LTE Band 66	-	24.52	20	0.056	1.000

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. $EIRP = ERP + 2.15dB$

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