

RF Exposure Report

Report No.: SABBNT-WTW-P21040204A

FCC ID: SLE-UC8200

Test Model: UC-8220-T-LX

Received Date: Nov. 30, 2021

Date of Evaluation: Jan. 24, 2022

Issued Date: Jun. 24, 2022

Applicant: Moxa Inc.

Address: No. 1111, Heping Rd., Bade Dist., Taoyuan City 334004, 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	
SABBNT-WTW-P21040204A	Original Release	Jun. 24, 2022	

Report No.: SABBNT-WTW-P21040204A Page No. 3 / 6
Reference No.: BBNT-WTW-P21116013



1 Certificate of Conformity

Product: Arm-based platform

Brand: MOXA

Test Model: UC-8220-T-LX

Sample Status: Engineering Sample

Applicant: Moxa Inc.

Date of Evaluation: Jan. 24, 2022

Standards: FCC Part 2 (Section 2.1091)

References Test KDB 447498 D01 General RF Exposure Guidance v06

Guidance:

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.

Gina Liu / Specialist

Approved by : _______, Date: _______, Jun. 24, 2022

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/cm²)	Average Time (minutes)			
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			
1500-100,000			1.0	30			

f = Frequency in MHz; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

 $Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm²

Pout = 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

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**.

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2.4 Calculation Result of Maximum Conducted Power

Band	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
WCDMA II	1850-1910	23.12	2	20	0.065	1.00
WCDMA V	824-849	23.24	1	20	0.053	0.55
LTE 2	1850-1910	24.04	2	20	0.080	1.00
LTE 4	1710-1755	24.48	2	20	0.088	1.00
LTE 5	824-849	23.06	1	20	0.051	0.55
LTE 13	777-787	21.99	1	20	0.040	0.52
LTE 17	704-716	23.46	1	20	0.056	0.47

Note:

- 1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- 2. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
- 3. Only the power for LTE 13 is new. The power for other band were quotes to BV CPS report no.: SABBNT-WTW-P21040204.

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