

FCC RF EXPOSURE REPORT

FCC ID: Q78-ZXV10B866V2

Project No. : 2103H037
Equipment : RichMedia Box
Brand Name : ZTE
Test Model : ZXV10 B866V2
Series Model : N/A
Applicant : ZTE Corporation
Address : ZTE Plaza, Keji Road South, Hi-Tech Industrial Park Nanshan District,
Shenzhen, Guangdong, P.R. China
Manufacturer : ZTE Corporation
Address : ZTE Plaza, Keji Road South, Hi-Tech Industrial Park Nanshan District,
Shenzhen, Guangdong, P.R. China
Date of Receipt : Mar. 29, 2021
Date of Test : Apr. 01, 2021~May 13, 2021
Issued Date : May 24, 2021
Report Version : R00
Test Sample : Engineering Sample No.: SH2021033044 for radiated
SH2021033045 for conducted, SH2021033043-12, SH2021033043-4 for
adapter
Standard(s) : FCC Part 2.1091; KDB 447498 D01 General RF exposure guidance v06.

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Maker Qi

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Certificate # 5123.03

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	May 24, 2021

1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the 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

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	N/A	N/A	steel	N/A	4.3	N/A
2	N/A	N/A	chip	N/A	4.3	N/A

Note:

- This EUT supports MIMO 2X2, any transmit signals are uncorrelated with each other, so Directional gain= G_{ANT} , that is Directional gain= $G_{ANT} = 4.3$.
- The antenna gain is provided by the manufacturer.

Table for Antenna Configuration:

For 2.4G:

Operating Mode / TX Mode	Ant. 1	Ant. 2	Ant. 1+2
802.11b	✓	✓	✓
802.11g	✓	✓	✓
802.11n(20 MHz)	✓	✓	✓
802.11n(40 MHz)	✓	✓	✓

For 5G:

Operating Mode / TX Mode	Ant. 1	Ant. 2	Ant. 1+2
IEEE 802.11a	✓	✓	✓
IEEE 802.11n (HT20)	✓	✓	✓
IEEE 802.11n (HT40)	✓	✓	✓
IEEE 802.11ac (VHT20)	✓	✓	✓
IEEE 802.11ac (VHT40)	✓	✓	✓
IEEE 802.11ac (VHT80)	✓	✓	✓

2. TEST RESULTS

For 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.3	2.6915	24.5	281.8383	0.15091	1	Complies

For 5GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
4.3	2.6915	17.5	56.2341	0.03011	1	Complies

Note: The calculated distance is 20 cm.
Output power including tune up tolerance.

End of Test Report