

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