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# **FCC RF EXPOSURE REPORT**

**FCC ID: Q78-ZXV10B760E**

**Project No. : 1404C148**  
**Equipment : RichMedia Box**  
**Model : ZXV10 B760E**  
**Applicant : ZTE Corporation**  
**Address : ZTE Plaza, Hi-Tech Park, Nanshan District,**  
**Shenzhen, Guangdong, P.R. China**

**According: : FCC Guidelines for Human Exposure IEEE C95.1**



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## **MPE CALCULATION METHOD:**

Calculation Method of RF Safety Distance:

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

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

| Ant. | Brand | Model Name       | Antenna Type | Connector | Gain (dBi) |
|------|-------|------------------|--------------|-----------|------------|
| 1    | N/A   | PW-MN427 34I 3.0 | Internal     | N/A       | 3          |



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## TEST RESULTS

|                |                             |                     |             |
|----------------|-----------------------------|---------------------|-------------|
| EUT :          | RichMedia Box               | Model Name :        | ZXV10 B760E |
| Temperature :  | 25 °C                       | Relative Humidity : | 55 %        |
| Test Voltage : | AC 120V/60Hz                |                     |             |
| Test Mode :    | TX B MODE /CH01, CH06, CH11 |                     |             |

| Antenna Gain (dBi) | Antenna Gain (numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 3                  | 1.9953                 | 15.14                   | 32.6588                | 0.01297031                              | 1                                                | Complies    |
| 3                  | 1.9953                 | 15.16                   | 32.8095                | 0.01303018                              | 1                                                | Complies    |
| 3                  | 1.9953                 | 15.02                   | 31.7687                | 0.01261683                              | 1                                                | Complies    |

|                |                             |                     |             |
|----------------|-----------------------------|---------------------|-------------|
| EUT :          | RichMedia Box               | Model Name :        | ZXV10 B760E |
| Temperature :  | 25 °C                       | Relative Humidity : | 55 %        |
| Test Voltage : | AC 120V/60Hz                |                     |             |
| Test Mode :    | TX G MODE /CH01, CH06, CH11 |                     |             |

| Antenna Gain (dBi) | Antenna Gain (numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 3                  | 1.9953                 | 21.48                   | 140.6048               | 0.05584064                              | 1                                                | Complies    |
| 3                  | 1.9953                 | 21.47                   | 140.2814               | 0.05571221                              | 1                                                | Complies    |
| 3                  | 1.9953                 | 20.97                   | 125.0259               | 0.04965356                              | 1                                                | Complies    |



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|                |                                 |                     |             |
|----------------|---------------------------------|---------------------|-------------|
| EUT :          | RichMedia Box                   | Model Name :        | ZXV10 B760E |
| Temperature :  | 25 °C                           | Relative Humidity : | 55 %        |
| Test Voltage : | AC 120V/60Hz                    |                     |             |
| Test Mode :    | TX N-20M MODE /CH01, CH06, CH11 |                     |             |

| Antenna Gain (dBi) | Antenna Gain (numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 3                  | 1.9953                 | 19.33                   | 85.7038                | 0.03403693                              | 1                                                | Complies    |
| 3                  | 1.9953                 | 19.36                   | 86.2979                | 0.03427286                              | 1                                                | Complies    |
| 3                  | 1.9953                 | 19.19                   | 82.9851                | 0.03295720                              | 1                                                | Complies    |

|                |                                 |                     |             |
|----------------|---------------------------------|---------------------|-------------|
| EUT :          | RichMedia Box                   | Model Name :        | ZXV10 B760E |
| Temperature :  | 25 °C                           | Relative Humidity : | 55 %        |
| Test Voltage : | AC 120V/60Hz                    |                     |             |
| Test Mode :    | TX N-40M MODE /CH03, CH06, CH09 |                     |             |

| Antenna Gain (dBi) | Antenna Gain (numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm <sup>2</sup> ) | Limit of Power Density (S) (mW/cm <sup>2</sup> ) | Test Result |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 3                  | 1.9953                 | 19.98                   | 99.5405                | 0.03953214                              | 1                                                | Complies    |
| 3                  | 1.9953                 | 20.13                   | 103.0386               | 0.04092139                              | 1                                                | Complies    |
| 3                  | 1.9953                 | 20.16                   | 103.7528               | 0.04120504                              | 1                                                | Complies    |

Note: the calculation distance is 20cm.