Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: Q78-ZXBOXCT220

Project No. : **1311C085**
Equipment : **Cloud Terminal (microcomputer)**
Model : **ZXCLOUD CT220**
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:

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

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	Integral	N/A	4.54	TX/RX

TEST RESULTS

EUT：	Cloud Terminal (microcomputer)	Model Name ：	ZXCLOUD CT220
Temperature：	25 ℃	Relative Humidity：	55 %
Test Voltage	AC 120V/60Hz		
Test Mode ：	TX B MODE		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
4.54	2.8445	20.09	102.0939	0.05780300	1	Complies
4.54	2.8445	20.05	101.1579	0.05727306	1	Complies
4.54	2.8445	20.01	100.2305	0.05674798	1	Complies

EUT：	Cloud Terminal (microcomputer)	Model Name ：	ZXCLOUD CT220
Temperature：	25 ℃	Relative Humidity：	55 %
Test Voltage	AC 120V/60Hz		
Test Mode ：	TX G MODE		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
4.54	2.8445	24.54	284.4461	0.16104616	1	Complies
4.54	2.8445	24.67	293.0893	0.16593973	1	Complies
4.54	2.8445	24.62	289.7344	0.16404023	1	Complies

EUT：	Cloud Terminal (microcomputer)	Model Name ：	ZXCLOUD CT220
Temperature：	25 ℃	Relative Humidity：	55 %
Test Voltage	AC 120V/60Hz		
Test Mode ：	TX N-20M MODE		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
4.54	2.8445	20.63	115.6112	0.06545614	1	Complies
4.54	2.8445	24.45	278.6121	0.15774310	1	Complies
4.54	2.8445	24.43	277.3320	0.15701834	1	Complies

EUT：	Cloud Terminal (microcomputer)	Model Name ：	ZXCLOUD CT220
Temperature：	25 ℃	Relative Humidity：	55 %
Test Voltage	AC 120V/60Hz		
Test Mode ：	TX N-40M MODE		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm^2)	Limit of Power Density (S) (mW/cm^2)	Test Result
4.54	2.8445	18.82	76.2079	0.04314698	1	Complies
4.54	2.8445	24.29	268.5344	0.15203738	1	Complies
4.54	2.8445	20.27	106.4143	0.06024907	1	Complies

Note: the calculation distance is 20cm.