

# **FCC RF EXPOSURE REPORT**

**FCC ID: Q78-HNH108NV25**

**Project No. : 1509C132**  
**Equipment : Home Gateway**  
**Model : ZXHN H108N**  
**Applicant : ZTE Corporation**  
**Address : ZTE Plaza, Hi-Teck Park, Nanshan District,  
Shenzhen, Guangdong, P.R.China**

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

**B T L I N C .**

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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

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	N/A	N/A	Internal	N/A	2
2	N/A	N/A	PIFA	N/A	2

## TEST RESULTS

EUT :	Home Gateway	Model Name :	ZXHN H108N
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
2	1.5849	18.22	66.3743	0.02093873	1	Complies
2	1.5849	17.21	52.6017	0.01659397	1	Complies
2	1.5849	16.75	47.3151	0.01492624	1	Complies

EUT :	Home Gateway	Model Name :	ZXHN H108N
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
2	1.5849	24.27	267.3006	0.08432384	1	Complies
2	1.5849	21.58	143.8799	0.04538897	1	Complies
2	1.5849	18.76	75.1623	0.02371103	1	Complies

EUT :	Home Gateway	Model Name :	ZXHN H108N
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-20M MODE_ Total /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
2	1.5849	25.4	346.7369	0.10938314	1	Complies
2	1.5849	25.34	341.9794	0.10788234	1	Complies
2	1.5849	24.86	306.1963	0.09659405	1	Complies

EUT :	Home Gateway	Model Name :	ZXHN H108N
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-40M MODE_ Total /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
2	1.5849	25.48	353.1832	0.11141672	1	Complies
2	1.5849	25.83	382.8247	0.12076758	1	Complies
2	1.5849	24.92	310.4560	0.09793781	1	Complies

Note: the calculated distance is 20 cm.