FCC RF EXPOSURE REPORT

FCC ID: PJZ24XXY1

Project No.	**: 1612C280**
Equipment	**: GPON 4 Port WiFi Gateway, GE 4 Port WiFi Gateway**
Model	**: (1) ZNID-GPON-2408A1, ZNID-GPON-2408A1-XX, ZNID-GPON-2408A1-NYY, ZNID-GPON-2408A1-XX-NYY, ZNID-GPON-2428A1, ZNID-GPON-2428A1-XX, ZNID-GPON-2428A1-NYY, ZNID-GPON-2428A1-XX-NYY (2) ZNID-GE-2408A1, ZNID-GE-2408A1-XX, ZNID-GE-2408A1-NYY, ZNID-GE-2408A1-XX-NYY, ZNID-GE-2428A1, ZNID-GE-2428A1-XX, ZNID-GE-2428A1-NYY, ZNID-GE-2428A1-XX-NYY**
Applicant	**: DASAN Zhone Solutions, Inc.**
Address	**: 7195 Oakport Street Oakland,CA 94621 USA**
According:	**: FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091**

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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

2.4G:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	N/A	N/A	PCB	IPEX	3
2	N/A	N/A	PCB	IPEX	3

5G:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	N/A	N/A	PCB	IPEX	4
2	N/A	N/A	PCB	IPEX	4
3	N/A	N/A	PCB	IPEX	4

TEST RESULTS

EUT：	GPON 4 Port WiFi Gateway	Model Name :	ZNID-GPON-2408 A1
Temperature：	25 ℃	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		

2.4G WIFI

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
3	1.9953	28.93	781.6278	0.31042	1	Complies

5G Band UNII-1

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	2.5119	27.03	504.6613	0.25232	1	Complies

5G Band UNII-3

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	2.5119	27.03	504.6613	0.25232	1	Complies

For 2.4G+5G simultaneous transmission MPE:

0.31042/1+0.25232/1=0.56274

Note: the calculated distance is 20 cm.