

FCC RF EXPOSURE REPORT

FCC ID: KA2SHG300A1

Project No. : 1708C263
Equipment : ZigBee to Ethernet Gateway
Model : DSH-G300
Applicant : D-LINK Corporation
**Address : No.289, Sinhu 3rd Rd., Neihu District Taipei City 114,
Taiwan, R.O.C**
**According: : FCC Guidelines for Human Exposure IEEE C95.1 &
FCC Part 2.1091**

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	PCB	N/A	2

TEST RESULTS

EUT:	ZigBee to Ethernet Gateway	Model Name :	DSH-G300
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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	19.29	84.9180	0.02678862	1	Complies
2	1.5849	22.75	188.3649	0.05942242	1	Complies
2	1.5849	19.67	92.6830	0.02923818	1	Complies

EUT:	ZigBee to Ethernet Gateway	Model Name :	DSH-G300
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 ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	21.08	128.2331	0.04045297	1	Complies
2	1.5849	22.29	169.4338	0.05345033	1	Complies
2	1.5849	22.45	175.7924	0.05545623	1	Complies

EUT:	ZigBee to Ethernet Gateway	Model Name :	DSH-G300
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N20M MODE /CH01, CH06, CH11		

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
2	1.5849	20.65	116.1449	0.03663957	1	Complies
2	1.5849	23.22	209.8940	0.06621408	1	Complies
2	1.5849	21.75	149.6236	0.04720091	1	Complies

EUT:	ZigBee to Ethernet Gateway	Model Name :	DSH-G300
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N40M MODE /CH03, CH06, CH09		

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
2	1.5849	19.67	92.6830	0.02923818	1	Complies
2	1.5849	23.16	207.0141	0.06530559	1	Complies
2	1.5849	19.44	87.9023	0.02773003	1	Complies

Note: the calculated distance is 20 cm.