

Climax Technology Co Ltd
No. 258, Sinhu 2nd Rd., Neihu District Taipei City 114 Taiwan

Federal Communications Commission
Authorization and Evaluation Division
Equipment Authorization Branch
7435 Oakland Mills Road
Columbia, MD 21046

Applicant's declaration concerning RF Radiation Exposure

We hereby indicate that the product
Product description: Smart Home Alarm Systems
Model No: HSGWx-xxxxx-xxxxx Series (x=0~9, A~Z or blank)

The equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The integral antennas used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter within the host device.

A safety statement concerning minimum separation distances from enclosure of the Product: Smart Home Alarm Systems will be integrated in the user's manual to provide end-users with transmitter operating conditions for satisfying RF exposure compliance.

The appropriate information can be drawn from the test report no: W6M21706-17098-P-247 and the accompanying calculations.

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Address: No. 258, Sinhu 2nd Rd., Neihu District Taipei City 114 Taiwan

Date: 2017-07-21

Signature

George Lin



Report Number: W6M21706-17098-P-247

FCC ID: GX9HSGW

10 Maximum Permissible Exposure

10.1 RF Exposure Compliance Requirements

FCC OET Bulletin 65 Edition 97.01 determines the equations for predicting RF fields and applicable limits.

The prediction for power density in the far-field but will over-predict power density in the near field, where it could be used for walking a “worst case” or conservative prediction.

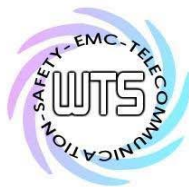
$$S = \frac{PG}{4\pi R^2}$$

- S – Power Density
- P – Output power ERP
- R – Distance
- D – Cable Loss
- AG – Antenna Gain

WCDMA Band 2			
Item	Unit	Value	Remarks
P	dBm/mW	22.69/185.7804	Peak value
D	dB		
AG	dBi	2.96	
G		1.9770	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.0731	Calculated value

WCDMA Band 4			
Item	Unit	Value	Remarks
P	dBm/mW	23.10/204.1738	Peak value
D	dB		
AG	dBi	4.85	
G		3.0549	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.1241	Calculated value

WCDMA Band 5			
Item	Unit	Value	Remarks
P	dBm/mW	20.16/103.7528	Peak value
D	dB		
AG	dBi	0.92	
G		1.2359	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.0255	Calculated value



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LTE Band 2			
Item	Unit	Value	Remarks
P	dBm/mW	22.59/181.5516	Peak value
D	dB		
AG	dB _i	2.96	
G		1.9770	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.0714	Calculated value

LTE Band 4			
Item	Unit	Value	Remarks
P	dBm/mW	22.00/158.4893	Peak value
D	dB		
AG	dB _i	4.85	
G		3.0549	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.0963	Calculated value

LTE Band 5			
Item	Unit	Value	Remarks
P	dBm/mW	20.98/125.3141	Peak value
D	dB		
AG	dB _i	0.92	
G		1.2360	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.0308	Calculated value

LTE Band 12			
Item	Unit	Value	Remarks
P	dBm/mW	20.99/125.6030	Peak value
D	dB		
AG	dB _i	-0.1	
G		0.9772	Calculated Value
R	cm	20	Assumed value
S	mW/cm ²	0.0244	Calculated value

Limits:

Limit for General Population / Uncontrolled Exposure	
Frequency (MHz)	Power Density (mW/cm ²)
1500 – 100.000	1.0