

**Statement of compliance to
Maximum Permissible Exposure (MPE)
No. 170201711SHA-007**

Applicant : Alcatel-Lucent Shanghai Bell Co., Ltd.
388-389#, Ningqiao Road, Pudong Jinqiao, Shanghai, China

Manufacturing site : Alcatel-Lucent Shanghai Bell Co., Ltd.
388-389#, Ningqiao Road, Pudong Jinqiao, Shanghai, China

Product Name : Digital Home CPE

Type/Model : A-240Z-A

EMA Code : 3FE 46615 AAAA

According to §2.1091, §2.1093 and §1.1307(b), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

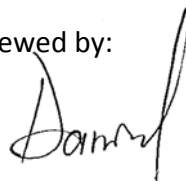
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Prepared by:



Wade Zhang (*Project Engineer*)

Reviewed by:



Daniel Zhao (*Reviewer*)

Power density (S) is calculated according to the formula:

$$S = PG / (4\pi R^2)$$

Where S = power density in mW/cm²

P = transmit power in mW

G = numeric gain of transmit antenna (numeric gain=Log-1(dB antenna gain/10))

R = distance (cm)

The calculations in the table below use the highest gain of antenna for client EUT. These calculations represent worst case in terms of the exposure levels.

Frequency band	Power		Antenna Gain		R	S	Limits
(MHz)	dBm	mW	dBi	(Numeric)	(cm)	(mW/cm ²)	(mW/cm ²)
2412 - 2462	26.76	474.24	3.0	2.0	20	0.189	1
5180 - 5240	29.60	912.01	3.0	2.0	20	0.363	1
5745 - 5825	27.46	557.19	3.0	2.0	20	0.222	1
2405 - 2480	15.32	34.04	3.0	2.0	20	0.014	1
908.4 - 916.0	-5.03	0.31	3.0	2.0	20	0.0001	1

Frequency band	Max Permit Power with tolerance		Antenna Gain		R	S	Limits
(MHz)	dBm	mW	dBi	(Numeric)	(cm)	(mW/cm ²)	(mW/cm ²)
2412 - 2462	28.00	630.96	3.0	2.0	20	0.251	1
5180 - 5240	30.00	1000.00	3.0	2.0	20	0.398	1
5745 - 5825	30.00	1000.00	3.0	2.0	20	0.398	1
2405 - 2480	17.00	50.12	3.0	2.0	20	0.020	1
908.4 - 916.0	-3.00	0.50	3.0	2.0	20	0.0002	1

Note: 1 mW/cm² from 1.310 Table 1

For the device can support simultaneous transmission, according to 447498 D01 General RF Exposure Guidance v06,

For the device consider simultaneous transmission of WIFI2.4G, 5G, ZigBee and Z-Wave,

The worst MPE = 0.251 + 0.398 + 0.020 + 0.0002 = **0.669** mW/cm² < **1** mW/cm².

Appendix I

Definition below must be outlined in the User Manual:

To satisfy FCC RF exposure requirements, a separation distance of **20** cm or more should be maintained between the antenna of this device and persons during device operation.
To ensure compliance, operations at closer than this distance is not recommended.