

FCC RF EXPOSURE REPORT

FCC ID: X7D-IP04268

Project No. : 1410C192

Equipment: AC1200 Long Range Wireless Dual Band

Router

Model : A850R, IP04268

Applicant: ZIONCOM ELECTRONICS (SHENZHEN) LTD.

Address : Building A1~A2, Lantian Science and

Technology Park, Xinyu Road Xinqiao Henggang Block Shajing Street, Baoan

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According: : FCC Guidelines for Human Exposure IEEE

C95.1

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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

Ant .	Brand	Model Name	Antenna Type	Conne ctor	Gain (dBi)	Note
3	Ruboney	H001-10164-B	Dipole	N/A	5	TX/RX
4	Hubcorg	H001-10164-B	Dipole	N/A	5	TX/RX



TEST RESULTS

EUT:	A850R, IP04268	IMINAAI MAMA	AC1200 Long Range Wireless Dual Band Router				
Temperature:	25 ℃	Relative Humidity:	55 %				
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz					
Test Mode :	JNII-1/TX A Mode_Total						

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
5	3.1623	10.68	11.6950	0.00736123	1	Complies
5	3.1623	10.6	11.4815	0.00722687	1	Complies
5	3.1623	10.69	11.7220	0.00737820	1	Complies

EUT:	A850R, IP04268	IMINAAI MAMA	AC1200 Long Range Wireless Dual Band Router			
Temperature:	25 ℃	Relative Humidity:	55 %			
Test Voltage:	AC 120V/60Hz					
Test Mode :	UNII-1/TX N20 Mode_Total					

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
5	3.1623	8.98	7.9068	0.00497680	1	Complies
5	3.1623	8.9	7.7625	0.00488597	1	Complies
5	3.1623	9.13	8.1846	0.00515170	1	Complies

EUT:	A850R, IP04268	IIVIOGAL NIAMA :	AC1200 Long Range Wireless Dual Band Router			
Temperature:	25 ℃	Relative Humidity:	55 %			
Test Voltage :	AC 120V/60Hz					
Test Mode :	JNII-1/TX N40 Mode_Total					

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
5	3.1623	9.98	9.9541	0.00626542	1	Complies
5	3.1623	9.9	9.7724	0.00615107	1	Complies



EUT:	A850R, IP04268		AC1200 Long Range Wireless Dual Band Router			
Temperature:	25 ℃	Relative Humidity:	55 %			
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz				
Test Mode :	JNII-3/ TX A Mode_Total					

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
5	3.1623	10.57	11.4025	0.00717712	1	Complies
5	3.1623	10.49	11.1944	0.00704613	1	Complies
5	3.1623	10.32	10.7647	0.00677564	1	Complies

EUT:	A850R, IP04268	Model Name :	AC1200 Long Range Wireless Dual Band Router			
Temperature:	25 ℃	Relative Humidity:	55 %			
Test Voltage :	AC 120V/60Hz	AC 120V/60Hz				
Test Mode :	JNII-3/TX N20 Mode_Total					

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
5	3.1623	9.01	7.9616	0.00501130	1	Complies
5	3.1623	8.98	7.9068	0.00497680	1	Complies
5	3.1623	8.96	7.8705	0.00495394	1	Complies

EUT:	A850R, IP04268	IIVIOGAI NISMA :	AC1200 Long Range Wireless Dual Band Router			
Temperature:	25 ℃	Relative Humidity:	55 %			
Test Voltage:	AC 120V/60Hz					
Test Mode:	UNII-3/ TX N40 Mode_Total					

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
5	3.1623	9.8	9.5499	0.00601105	1	Complies
5	3.1623	9.67	9.2683	0.00583378	1	Complies



EUT:	A850R, IP04268	IIVIOGAL NIAMA :	AC1200 Long Range Wireless Dual Band Router		
Temperature:	25 ℃	Relative Humidity:	55 %		
Test Voltage :	AC 120V/60Hz				
Test Mode :	UNII-1/TX AC20 Mode_Total				

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
5	3.1623	9.03	7.9983	0.00503443	1	Complies
5	3.1623	8.83	7.6384	0.00480784	1	Complies
5	3.1623	8.93	7.8163	0.00491983	1	Complies

EUT:	A850R, IP04268	IIVIAAAI NISMA :	AC1200 Long Range Wireless Dual Band Router			
Temperature:	25 ℃	Relative Humidity:	55 %			
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz				
Test Mode :	UNII-1/TX AC40 Mode_Total					

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
5	3.1623	10.08	10.1859	0.00641136	1	Complies
5	3.1623	9.87	9.7051	0.00610872	1	Complies

EUT:	A850R, IP04268	IIVIOGAI NIAMA :	AC1200 Long Range Wireless Dual Band Router		
Temperature:	25 ℃	Relative Humidity:	55 %		
Test Voltage:	AC 120V/60Hz				
Test Mode :	UNII-3/ TX N40 Mode_Total				

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
5	3.1623	10.09	10.2094	0.00642614	1	Complies



EUT:	A850R, IP04268	IIVIOGAL ISIAMA :	AC1200 Long Range Wireless Dual Band Router		
Temperature:	25 ℃	Relative Humidity:	55 %		
Test Voltage :	AC 120V/60Hz				
Test Mode :	UNII-3/TX AC20 Mode_Total				

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm2)	Limit of Power Density (S) (mW/cm²)	Test Result
5	3.1623	8.95	7.8524	0.00494254	1	Complies
5	3.1623	9.04	8.0168	0.00504604	1	Complies
5	3.1623	9.03	7.9983	0.00503443	1	Complies

EUT:	A850R, IP04268	IIVIOGAL NIAMA :	AC1200 Long Range Wireless Dual Band Router			
Temperature:	25 ℃	Relative Humidity:	55 %			
Test Voltage:	AC 120V/60Hz	AC 120V/60Hz				
Test Mode :	UNII-3/TX AC40 Mode_Total					

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
5	3.1623	10.12	10.2802	0.00647069	1	Complies
5	3.1623	10.25	10.5925	0.00666731	1	Complies

EUT:	A850R, IP04268	IIVIOGAL NIAMA :	AC1200 Long Range Wireless Dual Band Router		
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Test Voltage:	AC 120V/60Hz				
Test Mode :	JNII-3/ TX N40 Mode_Total				

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
5	3.1623	10.3	10.7152	0.00674451	1	Complies

Note: the calculated distance is 20 cm.