



FCC RF EXPOSURE REPORT

FCC ID:YJYK3

Project No. : 1710C304

Equipment: AC3150 Dual-band Gigabit Wireless Router

Model: K3

Applicant : Phicomm (Shanghai) Co., Ltd.

Address: No.3666, Sixian Rd., Songjiang District,

Shanghai, China

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:

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

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

Power Table

<u>Band</u>	Technology	<u>Mode</u>	Target Power (dBm)	Tolerance (dBm)
	802.11b	-	28	+/- 2dB
	802.11g	-	28	+/- 2dB
2.4G	802.11n	HT20	28	+/- 2dB
2.46	002.1111	HT40	28	+/- 2dB
	802.11ac	VHT20	28	+/- 2dB
	002.1180	VHT40	28	+/- 2dB
	802.11a	-	25.5	+/- 2dB
	000 115	HT20	26.5	+/- 2dB
5G Band	802.11n	HT40	22.5	+/- 2dB
UNII-1	802.11ac	VHT20	25	+/- 2dB
		VHT40	22	+/- 2dB
		VHT80	21	+/- 2dB
	802.11a	-	21.5	+/- 2dB
	000 44:-	HT20	22	+/- 2dB
5G Band	802.11n	HT40	21	+/- 2dB
UNII-3		VHT20	22	+/- 2dB
	802.11ac	VHT40	20	+/- 2dB
		VHT80	22.5	+/- 2dB





TEST RESULTS

H-111 ·	AC3150 Smart Wireless Router	Model Name :	КЗ
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/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
	2	1.5849	30	893.3055	0.31546	1	Complies

5G Band UNII-1

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
2	1.5849	28.5	639.7348	0.22333	1	Complies

5G Band UNII-3

(itenna 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
	2	1.5849	24.5	267.3006	0.08891	1	Complies

For 2.4G+5G simultaneous transmission MPE:

0.31546/1+0.22333/1=0.53879

Note: the calculated distance is 20 cm.