

FCC RF EXPOSURE REPORT

FCC ID: W59XAP310

Project No. : 1501C010

Equipment: Standard Power Wireless 300N Low Profile

Access Point

Model: XAP-310

Applicant: Luxul Wireless

Address : 14203 Minuteman Dr, Suite 201, Draper, United

States

According: : FCC Guidelines for Human Exposure IEEE

C95.1

BTL INC.

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, China. TEL: +86-769-8318-3000 FAX: +86-769-8319-6000



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	Connector	Gain(dBi)	Note
1	LUXUL	50000963	РСВ	N/A	3.81	TX/RX
2	LUXUL	50001379	РСВ	N/A	3.09	TX/RX

Note:

The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely uncorrelated, then Direction gain=G_{ANT}, that is Directional gain=3.81.



TEST RESULTS

 -	Standard Power Wireless 300N Low Profile Access Point	Model Name :	XAP-310
Temperature:	25 ℃	Relative Humidity:	55 %
Test Voltage:	e : 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/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
3.81	2.4044	19.72	93.7562	0.04486941	1	Complies
3.81	2.4044	19.26	84.3335	0.04035993	1	Complies
3.81	2.4044	19.36	86.2979	0.04130003	1	Complies

FIII	Standard Power Wireless 00N Low Profile Access Point Model Name :		XAP-310		
Temperature:	25 ℃	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/cm²)	Limit of Power Density (S) (mW/cm²)	Test Result
3.81	2.4044	25.12	325.0873	0.15557878	1	Complies
3.81	2.4044	25.37	344.3499	0.16479741	1	Complies
3.81	2.4044	25.38	345.1437	0.16517730	1	Complies



FIII '	Standard Power Wireless 300N Low Profile Access Point	Model Name :	XAP-310		
Temperature:	25 ℃	Relative Humidity:	55 %		
Test Voltage:	est Voltage: AC 120V/60Hz				
Test Mode :	TX N-20M MODE_ Total /CH01, CH06, CH11				

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
3.81	2.4044	26.82	480.8393	0.23011788	1	Complies
3.81	2.4044	26.89	488.6524	0.23385700	1	Complies
3.81	2.4044	26.96	496.5923	0.23765687	1	Complies

- ·	Standard Power Wireless 300N Low Profile Access Point	Model Name :	XAP-310		
Temperature:	25 ℃	Relative Humidity:	55 %		
Test Voltage :	AC 120V/60Hz				
Test Mode :	TX N-40M MODE_Total /CH03, CH06, CH09				

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
3.81	2.4044	26.72	469.8941	0.22487976	1	Complies
3.81	2.4044	26.86	485.2885	0.23224714	1	Complies
3.81	2.4044	26.79	477.5293	0.22853376	1	Complies

Note: the calculated distance is 20 cm.