

FCC RF EXPOSURE REPORT

FCC ID: X4YNXG150

Project **1411C285**
Equipment : **NexxtGate 150 High Power Access Point**
Model : **AEOPLDR4U2**
Applicant : **NEXXT SOLUTIONS**
Address : **3505 N.W MIAMI, FL, 33178**

According: : **FCC Guidelines for Human Exposure IEEE C95.1**

B T L I N C .

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	N/A	N/A	Internal	N/A	10.00	TX/RX
2	Tenda	Q5091	Dipole	N/A	5.07	TX/RX

Note: Antenna 1 and antenna 2 is optional. Only one antenna is used at a time. These two antennas can not transmit simultaneously.

TEST RESULTS

EUT :	ExxtGate 150 High Power Access Point	Model Name :	AEOPLDR4U2
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX B MODE_Ant 1 /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
10.00	10.0000	18.75	74.9894	0.14926238	1	Complies
10.00	10.0000	18.56	71.7794	0.14287307	1	Complies
10.00	10.0000	15.70	37.1535	0.07395208	1	Complies

EUT :	ExxtGate 150 High Power Access Point	Model Name :	AEOPLDR4U2
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX G MODE_Ant 1/CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
10.00	10.0000	22.60	181.9701	0.36220160	1	Complies
10.00	10.0000	25.30	338.8442	0.67445095	1	Complies
10.00	10.0000	20.50	112.2018	0.22333170	1	Complies

EUT :	ExxtGate 150 High Power Access Point	Model Name :	AEOPLDR4U2
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-20M MODE_Ant 1 /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
10.00	10.0000	19.10	81.2831	0.16178951	1	Complies
10.00	10.0000	23.00	199.5262	0.39714616	1	Complies
10.00	10.0000	19.60	91.2011	0.18153082	1	Complies

EUT :	ExxtGate 150 High Power Access Point	Model Name :	AEOPLDR4U2
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-40M MODE_Ant 1/CH03, CH06, CH09		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
10.00	10.0000	19.80	95.4993	0.19008610	1	Complies
10.00	10.0000	21.10	128.8250	0.25641910	1	Complies
10.00	10.0000	16.90	48.9779	0.09748782	1	Complies

Note:

- 1)Antenna 1 has the higher gain so it is recorded as the worst case.
- 2)The calculated distance is 20 cm.