



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: QISAP6510DN-AGN

Project No. : 1204C047F
Equipment : Outdoor Wireless LAN Access Point
Model : AP6510DN-AGN-US
Applicant : Huawei Technologies Co.,Ltd.
**Address : Administration Building, Headquarters of
Huawei Technologies Co., Ltd., Bantian,
Longgang District, Shenzhen China**

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

Neutron Engineering Inc.

No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.

TEL : (0769) 8318-3000 FAX : (0769) 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.	Manufacturer	Model Name	Antenna Type / Connector	Gain (dBi)	Note
1	Guangdong Shenglu Telecommunication Tech. Co., LTD.	SL10671A	Directional Antenna / N Male	5.9	TX/RX
2	Guangdong Shenglu Telecommunication Tech. Co., LTD.	SL10671A	Directional Antenna / N Male	5.9	TX/RX

Note: The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and two receivers (2T2R). All transmit signals are completely uncorrelated, then, Direction gain = G_{ANT} , that is Directional gain=5.9.



TEST RESULTS

Band 2

EUT:	Outdoor Wireless LAN Access Point	Model Name :	AP6510DN-AGN-US
Temperature:	25 °C	Relative Humidity:	58 %
Test Voltage:	AC 120V/60Hz		
Test Mode :	Band 2/TX N20 Mode/CH52, CH60, CH64		

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
5.9	3.8905	19.05	80.3526	0.06222292	1	Complies
5.9	3.8905	19.00	79.4328	0.06151066	1	Complies
5.9	3.8905	18.59	72.2770	0.05596936	1	Complies

Band 3

EUT:	Outdoor Wireless LAN Access Point	Model Name :	AP6510DN-AGN-US
Temperature:	25 °C	Relative Humidity:	58 %
Test Voltage:	AC 120V/60Hz		
Test Mode :	Band 3/TX A Mode/CH100, CH112, CH140		

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
5.9	3.8905	19.68	92.8966	0.07193668	1	Complies
5.9	3.8905	19.33	85.7038	0.06636672	1	Complies
5.9	3.8905	20.84	121.3389	0.09396159	1	Complies



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Band 4

EUT:	Outdoor Wireless LAN Access Point	Model Name :	AP6510DN-AGN-US
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX A Mode /CH149, CH157, CH165		

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
5.9	3.8905	28.9	776.2471	0.60110504	1	Complies
5.9	3.8905	28.92	779.8301	0.60387961	1	Complies
5.9	3.8905	28.9	776.2471	0.60110504	1	Complies

Note: The calculated distance is 20 cm.