



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: MCLCSE300APK9

Project No. : 1108C254
Equipment : Cisco Edge 300
Model : CS-E300-AP-K9, HS-E300-AP-K9
Applicant : HON HAI Precision Ind. Co., Ltd.
Address : 5F-1, 5, Hsin-An Road, Hsinchu Science-Based Industrial Park

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

Neutron Engineering Inc.

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

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

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

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

Ant.	Brand name	Model Name	Antenna Type	Connector	Gain (dBi)	cable length
1	FOXCONN	FX01B89-O G-EF-H	PCB	U.FL	2.92	75 mm
2	FOXCONN	FX01B90-O G-EF-H	PCB	U.FL	2.98	175mm

TEST RESULTS

EUT:	Cisco Edge 300	Model Name :	AD7000W/37
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	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/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.98	1.9861	18.50	70.7946	0.02798661	1	Complies
2.98	1.9861	18.30	67.6083	0.02672701	1	Complies
2.98	1.9861	17.74	59.4292	0.02349364	1	Complies



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EUT:	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	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/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.98	1.9861	20.10	102.3293	0.04045297	1	Complies
2.98	1.9861	20.13	103.0386	0.04073337	1	Complies
2.98	1.9861	20.30	107.1519	0.04235946	1	Complies

EUT:	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N20MHz MODE CH01/CH06/CH11-Antenna 1		

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
2.92	1.9588	18.30	67.6083	0.02636030	1	Complies
2.92	1.9588	18.29	67.4528	0.02629967	1	Complies
2.92	1.9588	18.34	68.2339	0.02660421	1	Complies

EUT:	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N20MHz MODE CH01/CH06/CH11-Antenna 2		

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
2.98	1.9861	18.20	66.0693	0.02611863	1	Complies
2.98	1.9861	18.30	67.6083	0.02672701	1	Complies
2.98	1.9861	18.36	68.5488	0.02709882	1	Complies



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EUT:	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N20MHz MODE CH01/CH06/CH11-Antenna 1+Antenna 2		

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
5.96	3.9446	21.26	133.6596	0.10494225	1	Complies
5.96	3.9446	21.31	135.2073	0.10615742	1	Complies
5.96	3.9446	21.36	136.7729	0.10738667	1	Complies

EUT:	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N40MHz MODE CH03/CH06/CH09-Antenna 1		

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
2.92	1.9588	16.39	43.5512	0.01698050	1	Complies
2.92	1.9588	16.14	41.1150	0.01603062	1	Complies
2.92	1.9588	15.94	39.2645	0.01530913	1	Complies

EUT:	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N40MHz MODE CH03/CH06/CH09-Antenna 2		

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
2.98	1.9861	15.95	39.3550	0.01555788	1	Complies
2.98	1.9861	16.17	41.4000	0.01636629	1	Complies
2.98	1.9861	16.03	40.0867	0.01584712	1	Complies



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EUT:	Cisco Edge 300	Model Name :	CS-E300-AP-K9
Temperature:	25 °C	Relative Humidity:	60 %
Pressure:	1012 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N40MHz MODE CH03/CH06/CH09-Antenna 1+Antenna 2		

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
5.96	3.9446	19.19	82.9851	0.06515539	1	Complies
5.96	3.9446	19.17	82.6038	0.06485603	1	Complies
5.96	3.9446	19.00	79.4328	0.06236636	1	Complies