



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: MCLCS-E340W

Project No. : 1308C100
Equipment : Cisco Edge 340
Model : CS-E340W
Applicant : HON HAI Precision Ind. Co., Ltd.
**Address : 5F-1, 5, Hsin-An Road, Hsinchu
Science-Based Industrial Park,
Hsinchu, Taiwan**

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

Neutron Engineering Inc.

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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 Field Antenna:

BAND 1

Group 1

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	FOXCONN	FX01G64-0G-EF	Integral Antenna	N/A	3.7
2	FOXCONN	FX01G64-0G-EF	Integral Antenna	N/A	2.3

Group 2

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
3	FOXCONN	FX01G67-0G-EF	Dipole Antenna	Revise-SMA Connector	3.59
4	FOXCONN	FX01G67-0G-EF	Dipole Antenna	Revise-SMA Connector	3.59

BAND 4

Group 1

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	FOXCONN	FX01G64-0G-EF	Integral	N/A	3.2
2	FOXCONN	FX01G65-0G-EF	Integral	N/A	3.6

Group 2

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
3	FOXCONN	FX01G67-0G-EF	Dipole	N/A	2.82
4	FOXCONN	FX01G67-0G-EF	Dipole	N/A	2.82



TEST RESULTS

EUT:	Cisco Edge 340	Model Name	CS-E340W
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Band 1/TX A Mode/CH36, CH40, CH48/Dipole Antenna with external cable		

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
3.7	2.3442	15.06	32.0627	0.01496065	1	Complies
3.7	2.3442	15.13	32.5837	0.01520374	1	Complies
3.7	2.3442	14.82	30.3389	0.01415632	1	Complies

EUT:	Cisco Edge 340	Model Name	CS-E340W
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Band 1/TX N20 Mode/CH36, CH40, CH48/Integral Antenna		

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
3.59	2.2856	16.10	40.7380	0.01853320	1	Complies
3.59	2.2856	15.89	38.8150	0.01765836	1	Complies
3.59	2.2856	15.90	38.9045	0.01769907	1	Complies

EUT:	Cisco Edge 340	Model Name	CS-E340W
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	Band 1/TX N40 Mode/CH38, CH46/Integral Antenna		

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
3.59	2.2856	10.21	10.4954	0.00477475	1	Complies
3.59	2.2856	10.41	10.9901	0.00499977	1	Complies
3.59	2.2856	10.21	10.4954	0.00477475	1	Complies



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EUT:	Cisco Edge 340	Model Name	CS-E340W
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX A Mode /CH149, CH157, CH165 / Integral Antenna		

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
3.6	2.2909	20.84	121.3389	0.05532869	1	Complies
3.6	2.2909	20.77	119.3988	0.05444404	1	Complies
3.6	2.2909	20.88	122.4616	0.05584064	1	Complies

EUT:	Cisco Edge 340	Model Name	CS-E340W
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N20 Mode /CH149, CH157, CH165 / Integral Antenna		

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
3.6	2.2909	21.62	145.2112	0.06621408	1	Complies
3.6	2.2909	21.92	155.5966	0.07094967	1	Complies
3.6	2.2909	21.81	151.7050	0.06917519	1	Complies

EUT:	Cisco Edge 340	Model Name	CS-E340W
Temperature:	25 °C	Relative Humidity:	58 %
Pressure:	1016 hPa	Test Voltage :	AC 120V/60Hz
Test Mode :	TX N40 Mode /CH151, CH159 / Integral Antenna		

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
3.6	2.2909	16.19	41.5911	0.01896489	1	Complies
3.6	2.2909	16.61	45.8142	0.02089057	1	Complies

Note: the calculation distance is 20 cm.