



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: Q3N-9700

Project No. : 1404142
Equipment : Mobile Computer
Model : 9700
Applicant : CIPHERLAB CO., LTD.
Address : 12F, 333, Dunhua S. Rd., Sec. 2, Taipei, Taiwan

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

Neutron Engineering Inc.

B1, No. 37, Lane 365, YangGuang St.,
NeiHu District 114, Taipei, Taiwan.

TEL: +886-2-2657-3299

FAX: +886-2-2657-3331



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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

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)		Note	
					2.4G	5G	2.4G	5G
1	CIPHERLAB	KX00000060113	Main Antenna	N/A	1.95	2.52	TX/RX	TX
2	CIPHERLAB	KX00000060122	Div Antenna	N/A	N/A	3.11	N/A	RX



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TEST RESULTS

EUT:	Mobile Computer	Model Name :	9700
Temperature:	26°C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	IEEE 802.11a / 5G Band 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
2.52	1.7865	12.7300	18.7499	0.006667	1	Complies
2.52	1.7865	13.0100	19.9986	0.007111	1	Complies
2.52	1.7865	13.5100	22.4388	0.007979	1	Complies

EUT:	Mobile Computer	Model Name :	9700
Temperature:	26°C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	IEEE 802.11a / 5G Band 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
2.52	1.7865	13.5000	22.3872	0.007961	1	Complies
2.52	1.7865	13.0800	20.3236	0.007227	1	Complies
2.52	1.7865	14.1600	26.0615	0.009267	1	Complies

EUT:	Mobile Computer	Model Name :	9700
Temperature:	26°C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	IEEE 802.11a / 5G Band 3		

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
2.52	1.7865	15.0000	31.6228	0.011245	1	Complies
2.52	1.7865	14.4100	27.6058	0.009816	1	Complies
2.52	1.7865	12.0900	16.1808	0.005754	1	Complies



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EUT:	Mobile Computer	Model Name :	9700
Temperature:	26°C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	IEEE 802.11n / 5G Band 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
2.52	1.7865	12.2100	16.6341	0.005915	1	Complies
2.52	1.7865	12.5700	18.0717	0.006426	1	Complies
2.52	1.7865	13.1900	20.8449	0.007412	1	Complies

EUT:	Mobile Computer	Model Name :	9700
Temperature:	26°C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	IEEE 802.11n / 5G Band 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
2.52	1.7865	12.9500	19.7242	0.007014	1	Complies
2.52	1.7865	12.5100	17.8238	0.006338	1	Complies
2.52	1.7865	13.7800	23.8781	0.008491	1	Complies

EUT:	Mobile Computer	Model Name :	9700
Temperature:	26°C	Relative Humidity :	60 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	IEEE 802.11n / 5G Band 3		

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
2.52	1.7865	14.2000	26.3027	0.009353	1	Complies
2.52	1.7865	13.7100	23.4963	0.008355	1	Complies
2.52	1.7865	11.9600	15.7036	0.005584	1	Complies

The evaluated distance is 20cm.