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RF Exposure Evaluation Report

L400, S400, S500, TS-400, IP400 **Product**

Trade mark AIPTEK/iBeamBLOCK/hp

Model/Type reference L400 PAD

Serial Number N/A

Report Number EED32I00318004 FCC ID 2AHTC-IBBL4

Date of Issue Jul. 14, 2017

47 CFR Part 1.1307

47 CFR Part 1.1310 **Test Standards**

KDB 447498 D01v06

Test result PASS

Prepared for:

Global Aiptek Corporation 5F, No. 550, Xianzheng 2nd Rd., Zhubei City, Hsinchu County, Taiwan

Prepared by:

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2 Version

Version No.	Date	- 1	Description	
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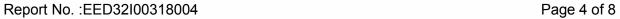












4 General Information

4.1 Client Information

Applicant:	Global Aiptek Corporation				
Address of Applicant:	5F, No. 550, Xianzheng 2nd Rd., Zhubei City, Hsinchu County, Taiwan				
Manufacturer: Global Aiptek Corporation					
Address of Manufacturer:	: 5F, No. 550, Xianzheng 2nd Rd., Zhubei City, Hsinchu County, Taiwan				
Factory:	Shenzhen ACT Industrial Co., Ltd				
Address of Factory:	1~8F, No. 5 Building, Beishan Industrial Park, No. 146 Beishan Avenue, Yantian District, Shenzhen City				

4.2 General Description of EUT

Product Name:	L400, S400, S500, TS-400, IP400	
Model No.:	L400 PAD	
Trade Mark:	AIPTEK/iBeamBLOCK/hp	10/
EUT Supports Radios application:	WIFI 2.4GHz 802.11b/g/n(HT20), BT4.0 Dual mode	
	MODEL: DSA-42PFB-12 1 120350;	
AC adapter:	Input: 100-240V~50/60Hz, 1.2A;	
	Output: 12V3.5A	

4.3 Product Specification subjective to this standard

	BT: GFSK, 8DPSK, π /4DQPSK			
Modulation Type:	Wi-Fi: DSSS ,OFDM			100
Sample Type:	mobile production	(37)		(6.5)
Antenna Type:	PIFA Antenna			
Antenna Gain:	-4.5dBi			
Test Voltage:	AC 120V/60Hz			
Sample Received Date:	Dec. 16, 2016		(0)	
Sample tested Date:	Dec. 16, 2016 to Jun. 23, 2017			
The tested sample and the	e sample information are provided by the	client.		

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd.

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China 518101

Telephone: +86 (0) 755 3368 3668 Fax:+86 (0) 755 3368 3385

No tests were sub-contracted.











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4.5 Deviation from Standards

None.



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4.6 Abnormalities from Standard Conditions

None.



None.

















































































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5 RF Exposure Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

			- 120 B		
Frequency range (MHz)	Electric field strength (V/m)	ength strength Pov		Averaging time (minutes)	
(A) Lim	its for Occupational	/Controlled Exposure	es		
0.3–3.0 3.0–30 30–300 300–1500 1500–100,000	614 1842/f 61.4	1.63 4.89/f 0.163	*(100) *(900/f²) 1.0 f/300 5	6 6 6 6	
(B) Limits	for General Populati	on/Uncontrolled Exp	osure		
0.3–1.34 1.34–30 30–300 300–1500 1500–100,000	614 824/f 27.5	1.63 2.19/f 0.073	*(100) *(180/f²) 0.2 f/1500 1.0	30 30 30 30 30	

A rough estimation of the expected exposure in power flux density on a given point can be made with the following equation:

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

Where:

S = power density

P = power input to the antenna

G = numeric gain of the antenna in the direction of interest relative to an isotropic radiator

R= distance to the centre of radiation of the antenna

EIRP = P*G

The antenna of the product, under normal use condition is at least 20 cm away from the body of the user. Warning statement to the user for keeping at least 20cm separation distance and the prohibition of operating to a person has been printed on the user's manual. Therefore, the S of the device is calculated with R=20cm, and if it is below the limit S, then we can conclude the device complies with the rules.



























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5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit data at lowest, middle and highest channel individually.

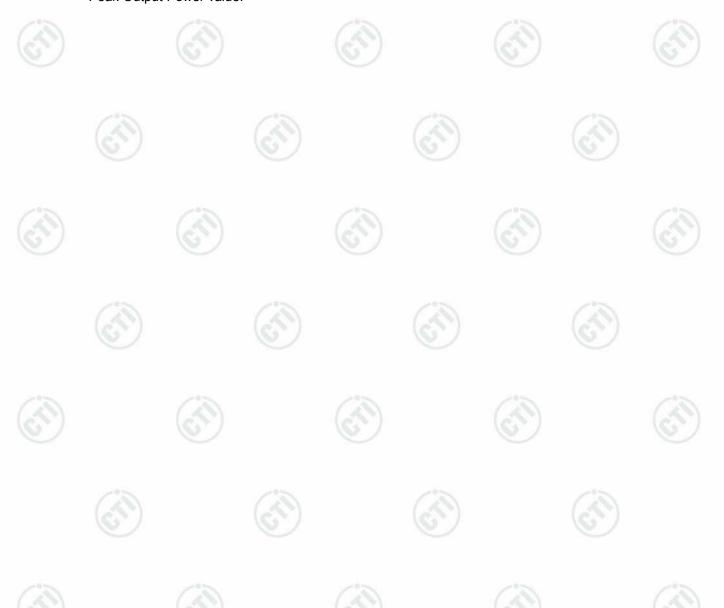
5.1.3 EUT RF Exposure Evaluation

Antenna Gain: -4.5dBi

Output Power Into Antenna & RF Exposure Evaluation Distance:

Channel	Frequency (MHz)	Max Conducted Peak Output Power(dBm)	Gain (dBi)	EIRP* (dBm)	EIRP (mW)	R (cm)	S (mW/cm²)	Limit (mW/cm²)	Result
Middle	2437	23.22	-4.5	18.72	74.47	20	0.015	1.0	Pass

Note: Refer to report No. EED32I00318001, EED32I00318002, EED32I00318003 for EUT test Max Conducted Peak Output Power value.



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PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32I00318001 for EUT external and internal photos.

*** End of Report ***

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.



















































































