Helen Zhao

Subject: FW: ??: FW: EDIMAX Technology Co., Ltd., FCC ID: NDD9521000409, Assessment NO.: AN04T4269, Notice#2--


HSB1 UserMan revised 1123.pdf


HSB1 LabelSmp & Loc revised 11...


HSB1 TestRpt 1123.pdf


HSB1 additional test report re...

-----Original Message-----
From: ting@ccsemc.com.tw [mailto:ting@ccsemc.com.tw]On Behalf Of application@ccsemc.com.tw
Sent: Tuesday, November 23, 2004 1:10 AM
To: Mike Kuo
Cc: application@ccsemc.com.tw; Helen Zhao; mandy@ccsemc.com.tw
Subject: ??: FW: EDIMAX Technology Co., Ltd., FCC ID: NDD9521000409, Assessment NO.: AN04T4269, Notice#3

Hi Mike,

Edimax asks to change the applicant to Hawking Technologies, Inc.
with FCC ID:SOYHSB1, details are as below:

Applicant Name:
Hawking Technologies, Inc
Address:15281A Barranca Parkway,Irvine,CA92628 U.S.A
Manufacture Name:Edimax Technology Co.,LTD
Address:No.3,Wu Chuan 3rd Road,Wu-Ku Industrial Park,Taipei Hsien,Taiwan

So attached please also find the updated label format/location and test report.
As for the confidentiality request letter will be emailed by Mandy later.

Best Regards,
Ting

(See attached file: HSB1 UserMan revised 1123.pdf)(See attached file: HSB1 LabelSmp & Loc revised 1123.pdf)(See attached file: HSB1 TestRpt 1123.pdf)
(See attached file: HSB1 additional test report revised 1123.pdf)

"Mike Kuo"
<MKUO@CCSEMC.com> ? ? ? : <application@ccsemc.com.tw>
2004/11/21 05:38 PM ? ? : RE: ? ? : FW: EDIMAX Technology Co., Ltd., FCC ID: NDD9521000409, Assessment NO.: AN04T4269, Notice#3

Hi Lucy and Ting :

Question #1: In the additional test report attachment, what is the mode of operation from Page 2 - 4. The description for page 2 -4 is " the output power input from Access Point to the booster "

Where is the RF conducted power measured ? At the access point antenna port or at the booster antenna port ?
Ans: Test data in page 2-4 of the additional test report is access point's RF output power measured from the anntenna connector of access point's output side.
If it is measured from the antenna connector of Access Point, then the measured output power does not agree with output power listed on FCC ID:NDD9572030410. Please explain the differences.
Ans.: The access point we measured here is the different set from Sporton measured. So due to the differnt set and differnt measurement equipment, such differnece may be possible happened.

Question #2: This booster has three levels setting, 100mW , 200mW and 500mW. In the user manual mentioned that the booster can have max. of 23 dBm output. In page 45 product specification,
Output Power: 100/200/500mW
Transmit Power:3 dBm min; 23dBm max

What is relation between selectable output power Vs Transmit Power ? Based upon the measurement report, the highest peak output power measured is 22.96 dBm with 500mW setting . 22.96 dBm is about 198 mW. Please explain .
Ans.: After confirm with Edimax, the output power is the output of booster, and Transmit power is the input power from access point. So the tranmit power indicated in page 45 was typo which has been revised as the one indicated in page 6 of user manual. Please refer to attached revised user manual for details.
Regarding the result of output power when setting in 500mW, after checking with Edimax that their output power may has +-2dBm's deviation and 500mW they indicated in the user manual is the max eirp output power which is equal to peak output power(22.96dBm)+2dBm(deviation)+antenna gain(2dBi)=27dBm.

Regarding the test of peak output power
The 23 dBm max. is rated as average or peak ?
Ans. Peak was measured.

Question #3 : Page 3 of user manual, it still suggest the Access point is sold separately. Please make necessary correction.
Ans. Edimax finally agreed to add the statement that the three units of access point, RF cable and booster will be sold together when placing in the market. So attached please find the final version of user manual.

Question # 4 : Page 6 " One HACST Reverse TNC Connector Adapter (For multiple vendor support) . Please explain the purpose for this adapter .
Ans. No HACST Reverse TNC Connector Asapter would be provided or connected, user manual has been revised as attached.

Question # 5 : Page 40, the RF cable is described as SMA to SMA cable which does not agree with your reply to Question #2.
Ans. The RF cable is reverse SMA to reverse SAM cable and user manual has been revised as attached.

Question #6 : In the user manual, user can select more than 11 channel

which are outside of authorized frequency range . Please explain how the restricted the user to only capable of operating within authorized frequency range.
Ans. The EUT would be set at the available frequency channel where it's imported by software and please refer to the page 18/21/23/24/26 of revised user manual for details.

Question #7 : Your reply to Question 8 does not address the question. What is cable loss of RF cable that supplied with booster ?
Ans. The cable loss of RF cable is 2dB.

Best Regards

Mike Kuo

-----Original Message-----
From: lucy_tsai@ccsemc.com.tw [mailto:lucy_tsai@ccsemc.com.tw]On Behalf Of application@ccsemc.com.tw
Sent: Thursday, November 18, 2004 6:03 AM
To: Mike Kuo
Cc: CCS- Application (E-mail); Helen Zhao
Subject: ? ? : FW: EDIMAX Technology Co., Ltd., FCC ID: NDD9521000409, Assessment NO.: AN04T4269, Notice#2

Hi Mike,

Please refer to the below for details.

Best Regards,
Ting

"Mike Kuo"
<MKUO@CCSEMC.com>
2004/11/05 09:37 AM

? ? ? : "CCS- Application \(E-mail\)" <application@ccsemc.com.tw>
? ? ? ? : "Helen Zhao" <HZhao@CCSEMC.com>
? ? : FW: EDIMAX Technology Co., Ltd., FCC ID: NDD9521000409, Assessment NO.: AN04T4269, Notice#2

-----Original Message-----
From: Compliance Certification Services [mailto:MKuo@ccsemc.com]
Sent: Thursday, November 04, 2004 5:14 PM
To: Mike Kuo
Cc: Helen Zhao
Subject: EDIMAX Technology Co., Ltd., FCC ID: NDD9521000409, Assessment NO.: AN04T4269, Notice#2

As indicated in section 15.204(b) of FCC rules, A transmission system consisting of an intentional radiator, an external RF power amplifier, and an antenna, may be authorized, marketed and user under this part. However, when a transmission system is authorized as a system, it must, always be marketed as a complete system and must be always be used in the configuration in which is was authorized.

Question #1: In the theory of operation, EW-7203APg Access Point is mentioned to be used with the external power amplifier. In the user manual and test report, the model number is HWBA54G for Access Point. Please provide explain the differences in the model number for the access point.
Ans. It's typo and has been revised as attached user manual.
(See attached file: HSB1 UserMan revised 1118.pdf)(See attached file: HSB1 OpDes revised 1118.pdf)
Question #2: In the revised page 3 of user manual " The kit contains three units, Hawking HWBA54G (Wireless Access Point), RF cable and HSB1 (Signal Booster). RF Cable and HSB1 are designed to operate only with Hawking HWBA54G." Please provide technical information to explain the design to ensure that HSB1 booster will only be capable of operating with HWBA54G.
Ans. They use non-standard connector: reversed SMA connector in the output of AP, both sides of supplied RF cable and output of booster(external power amplifer) to avoid end user to use with other devices. Besides, the whole system will always be sold together. Please refer to the revised user manual and connector spec. for details.

Question #3: Section 1 of user manual, in the booster package contains " One HACST Reverse TNC Connector Adapter (For multiple vendor support) ". This is to suggest the user that booster can be operated with other access point by incorporated connector adapter. Such marketing practice is not complied with section 15.204(b) of FCC rules.
Ans. The user manual has been revised as attached file.

Question #4: In the test report test setup diagram, only one EUT is listed in the diagram. Please provide RF conducted test setup photo to show the configuration that was used.
Ans. Submitted as attached additional test report.
(See attached file: HSB1 additional test report.pdf)
Question #5: Through out the test report, the is no information provided to describe the condition of input power from Access point. Please describe the mode of configuration at access point during each of tests. What was the output power input from Access point to the booster ?
Ans. Test was done with access point's default value and please refer to the attached additional test report for details.

Question #6 : Please provide peak output power measurement with Access point tuned to the max. output power and measured the booster in three setting : 100mW, 200mW and 500mW at the low/middle/high with CCK and OFDM modulation. Submit all spectrum plots.
Ans. Submitted as attached additional test report.

Question #7 : Please provide peak output power measurement with access point tuned to the lowest output power 8 dBm at the middle channel and

measure the booster peak output power at 100mW, 200mW and 500 mW. Submit all spectrum plots.
Ans. Submitted as attached additional test report.

Question #8 : What is the cable lost of RF cable that supplied with booster ?
Ans. Please refer to the attached calbel spec. for details.
(See attached file: HWBA54G connetor.pdf)(See attached file: HSB1connetor.pdf)
Question #9 : In the revised user manual appendix, the booster is suggested to be used any device with detachable antenna. Once again, such marketing practices do not comply with 15.204(b) of FCC rules.
Ans. The user manual has been revised as attached file.
Best Regards

Mike Kuo

The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information within 30 days of the original e-mail date may result in application dismissal and forfeiture of the filing fee. Also, please note that partial responses increase processing time and should not be submitted. Any questions about the content of this correspondence should be directed to the e-mail address listed below the name of the sender.
