

Mike Kuo

From: Tom Cokenias [tom@tncokenias.org]
Sent: August 10 日 2004 年 Tuesday 4:27 PM
To: Mike Kuo
Subject: Re: FW: Airgo Networks, FCC ID: SA3-AGN1202AP0000, Assessment NO.: A N04T4106, Notice#1

-----Original Message-----

From: Compliance Certification Services [mailto:MKuo@ccsemc.com]
Sent: Thursday, August 05, 2004 11:27 AM
To: mkuo@ccsemc.com
Subject: Airgo Networks, FCC ID: SA3-AGN1202AP0000, Assessment NO.: AN04T4106, Notice#1

FYI : Some of technical questions were issued during AN04T4105 DTS portion of composite device filing. Those issues will not be repeated in this review. Please make sure to address Question 2,6,7 and 8 for this UNII applications as well.

Question #1: For UNII device operates in 5.15-5.25GHz band, the operating is restricted to indoor use only per section 15.407(e) of FCC rules. In page 41, figure 27 of user manual, the software suggested that this device can be used for outdoor operation as well. Please describe how to limit the device can only be used for indoor in 5.15-5.25GHz band.

ANS1

- 1) For units sold in the US, the country will be defaulted to US and the environment will be defaulted to Indoor. The user will not be able to change this. If the user attempts to change this via any of the interfaces (web, command line, SNMP) they will not be able to and they will get back a message stating that they are not allowed to make the change.
- 2) There will be no other changes to the user interface (other than the lack of ability to change the country and environment settings and the message stating that if you do try to).
- 3) There will be no changes to the documentation.

Question #2: Please address 15.407(c) , 15.407(g) requirements.

ANS2:

The explanation required in 15.407 c) as given by our system architect, Dr. V K Jones, is the following:

"The device operates at all times under the CSMA mechanism of the 802.11 protocol. Hence, the default operation of the device is to be in receive-only mode until two conditions are satisfied. The device initiates transmissions only when the medium is clear from transmissions on the current operation channel and, in addition to, when there is a data transmission request initiated by the host for the device. The device acts as the slave and accepts data through a PCI bus electrical interface that is controlled by a host CPU. Therefore, in default operation, no transmission is initiated in the absence of information, unless for the purpose of system management signaling (e.g. periodic beacon packets from an access point).

Since the default operation of the device is to be in receive-only mode, operational failure will result in no transmissions. Additional protection is guaranteed by on-device detection of synthesizer lock failure which prevents

8/15/2004

any modifications to the center frequency control during catastrophic events."

The requirements of 15.407 g) are also addressed by the explanation above, combined with the fact that the synthesizer is locked to a crystal oscillator with a frequency stability better than +/-20 ppm as required by 802.11 (see attached data sheet). For 5805 GHz, 20 ppm represents a drift of 116.1 kHz, and the bandedge is 12 MHz above the channel skirts.

Question #3: In the user manual, please include information to restrict indoor use for 5.15-5.25GHz operation.

ANS3 Same as ANS 1

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.