



American Telecommunications Certification Body Inc.  
6731 Whittier Ave, McLean, VA 22101

May 10, 2004

RE: Airspan Networks

FCC ID: PIDAIRSPAN-IDR900

After a review of the submitted information, I have a few comments on the above referenced Application.

- 1) This FCC ID has been used for a previous application. Due to the power change, this application must be approved under a new FCC ID Number. Please correct all necessary exhibits.
- 2) The Block Diagram and schematics appear to show 2 external antenna connections, however from the internal photographs provided, only one connection could be located and the other was unpopulated. Please explain. From the design, it is also uncertain if both antennas can TX simultaneously. Please explain.
- 3) This application appears to be for both an internal and external antenna options. Please provide additional internal photographs as necessary to show the construction differences between the 2 units.
- 4) Please provide external photographs of the external antenna(s) to be approved with this device.
- 5) Please provide a list that summarized information regarding the antenna(s) to be approved with this device. For instance, type, gain, model, manufacturer, internal/external, etc. The users manual contains a lot of information. Please provide specific antennas for this application only. To the best of our determination, it appears that there are 6.5 and 10 dBi external antennas and 8 dBi internal antennas.
- 6) Please provide information regarding the antenna connector to show compliance to the unique antenna requirements for the external antenna.
- 7) The users manual mentions external antennas for IDR are TNC (Table 2.3), but then also mentions 900 MHz IDR use N connectors (sections 2.5.2.1 & 2.5.2.3.1/2.5.2.3.2). Please clarify.
- 8) The users Manual table 2-14 for 900 MHz appears to show power less than reported, and possible antenna gain > than that reported. Please explain and/or correct.
- 9) It is not clear from plot A8 provided that the whole Ton time is shown. Please provide an updated plot.
- 10) Note that there is a variety of ways to approve a hybrid system (attachment for hybrids from the FCC has been provided on previous occasions). Recently approved devices for Airspan included both a FHSS and hybrid mode. Please explain if this device employs different operational modes or if it is always in hybrid mode. Note that there is a concern regarding FHSS mode only as the bandwidth is greater than that normally allowed for 900 MHz FHSS systems. The remainder of this application and comments was reviewed assuming the device is always in hybrid mode and can not normally operate in mutually exclusive modes. Other recently approved Airspan at 900 MHz only operated in hybrid mode (device does not operate in FHSS or DTS mode independently)
- 11) Most radiated measurements in the tables are shown as Peak measurements in the table, while all the plots referenced are average. Please explain.
- 12) The users manual does not appear to contain information regarding installation: "This device must not be co-located or operating in conjunction with any other antenna or transmitter". Please add or provide information as to where this information is found.

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The items indicated above must be submitted before processing can continue on the above referenced application. Failure to provide the requested information may result in application termination. Correspondence should be considered part of the permanent submission and may be viewed from the Internet after a Grant of Equipment Authorization is issued.

Please do not respond to this correspondence using the email reply button. In order for your response to be processed expeditiously, you must submit your documents through the AmericanTCB.com website. 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 sender.