

December 19, 2002

RE: Intel Corporation

FCC ID: PD9WM3A2100

[Answers to the ATCB comments on the above referenced Application.](#)

- 1) Please provide a 731 form for this application.  
[Refer to "Intel 731 Form for WM3A2100" exhibit.](#)
- 2) Please provide photographs of the 2 types of antennas used with the device.  
[Refer to "Antenna Photographs" exhibit.](#)
- 3) Please provide a photograph that shows the cable length between the device and the antenna. Please label this information on the photograph.  
[Refer to "Antenna Photographs" exhibit.](#)
- 4) The OEM notices provided must instruct the OEM as to the following:
  - a) The device is NOT authorized for co-location installations
  - b) That the end user should NOT be provided any instructions on how to remove or install the device.
  - c) Note that confidentiality the OEM notice was uploaded with a request for confidentiality, but this is not provided in the confidential letter. Please confirm and provide justification as to why this should be held confidential when it appears not to contain any confidential information.
    - a) [Refer to "Compliance OEM Notices Guide \(Revised 12-18-02\)" exhibit page 3.](#)
    - b) [Refer to "Compliance OEM Notices Guide \(Revised 12-18-02\)" exhibit page 4.](#)
    - c) [The OEM Notices is not to be confidential.](#)
- 5) The users manual must included information regarding the prohibition of co-location. Also, it is not clear from reviewing the users manual that this device is intended for OEM integrators only.  
[Refer to "Users Guide \(Revised 12-18-02\)" exhibit page 61.](#)
- 6) The label exhibit must also include a photograph or drawing showing the placement of the label on the device. Please provide this.  
[Refer to "Label Drawing-Placement" exhibit.](#)
- 7) The product brochure provided for the operational description states the frequency band as 2.4 - 2.497 GHz. The FCC allowed band is 2.4-2.4835 GHz. Please explain.  
[Refer to "Freq. Band Explanation Letter" exhibit.](#)
- 8) The test report (page 5 of 19) states the antenna gain is 0 dBi nominal. The RF exposure information uses 1.67 dBi, which appears to be from the antenna specifications. Please note that all references to antenna gain should be consistent throughout all exhibits. Please adjust the test report.  
[Refer to "INTEL-021001F Report \(Revised 12-18-02\)" for revised test report.](#)
- 9) The test report (page 7/8 of 19) mentions a Hitachi and Ethertronics antennas. The antenna information appears to be presented only for Hitachi. Please provide the information for the Ethertronics Antenna and comment on if both antennas are identical or not.  
[Refer to "Hitachi and Ethertronic Antenna Information" exhibits provided for revised antenna information.](#) [Refer to "INTEL-021001F Report \(Revised 12-18-02\)" page 5 of 19 for comments on antennas.](#)
- 10) The antenna specifications provided state "it is recommended that the antenna have similar characteristics.....". Please note that this FCC certification will only cover the device with the antennas it was tested and submitted with in this application. Please confirm the antenna tested with this device is the same as given in this document.  
[Refer to "Hitachi and Ethertronic Antenna Information" exhibits provided for revised antenna information.](#)
- 11) On page 14 & 16 of 59, please explain the derivation of the 68.3 dBuV limit. The limit for these frequencies should be 20 dB below the power of the fundamental. This limit appears to be about 40 dB below the fundamental.  
[Refer to "INTEL-021001F Report \(Revised 12-18-02\)" for revised test report.](#)

- 12) Some of the points at the bandedge appear to place the cursor only on the bandedge frequency of 2.390 or 2.4835. Please note that the cursor should be placed on the highest emission in the restricted band. For instance, see the data on pages 22, 26, 30, 34, of 59. The cursor has not been placed on the highest emission. This is a concern especially with the close margins shown. Please review as necessary the data for the bandedge and confirm that all data passes.

Upon further review of the band edge data, the cursor is at the highest emissions in the restricted band. The cursor does not appear to be on the highest emission because of the resolution of the plots. Please refer to the tabulated data above the plots for actual measurements. Please advise as to what if anything else is needed.

- 13) FYI, for MPE exhibits it is best to calculate for distance R and insert the limit into the variable S for the equation you provided.

Refer to "MPE Calculations (Revised 12-18-02)" exhibit provided for revised MPE calculation using the Hitachi and Ethertronics antennas.