



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

August 25, 2002

RE: Teletronics International Inc.

FCC ID: MFMSAMP24W

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

- 1) The sample label shows the labeling placed on the amplifier. The labeling shall be placed on the "main control unit" as specified by 15.19(a)(4). Due to the nature of the system we would still recommend placing the label on the amplifier as well. Please provide additional information showing for the "main control unit". Please note that the FCC ID placed on the access point is no longer considered valid once the amplifier has been added to the system.
- 2) Please provide a higher resolution exhibit for the schematic amplifier and DC injector circuits. The values specified on the schematics are not easily readable.
- 3) The information supplied for the antennas appears to include an 8.5 dBi patch antenna which does not appear to be tested or included in this filing. Please confirm that this antenna is not part of this filing.
- 4) Please provide information for the cable between the access point and the DC injector. Is this cable a standard length? What type of cable was this?
- 5) It appears that the minimum and maximum channels built into the Cisco PCMCIA cards were not used. Please comment on this. Since selection of channels will affect compliance of the unit with the FCC's rules, explain what precautions are built into the system to keep the end user from adjusting the power output levels. For example adjustment of this feature is only allowed by passwords used by the installers, etc. (reference 15.15(b)).
- 6) Please provide test configuration photos for conducted emissions testing performed.
- 7) All radiated spurious emissions given in the test report are for the vertical polarity. This test is to measure the emissions that emanate from the all cables, amplifier, DC injector, access point, etc. Please confirm that the device was also checked in the horizontal polarity.
- 8) The test equipment for radiated spurious emissions does not provide an antenna for 12.4 – 18 GHz (section 6.3). Please comment.
- 9) Please provide information to show compliance with the antenna requirements of 15.203. Professional installation must be used if standard connectors are applied (i.e. use of a standard connector is not allowed if professional installation "may" be required or a possible option). Please note that professional installation will require a cover letter addressing the following 3 points:
 - a) Application (or intended use) of the device
 - b) Installation requirements
 - c) Method of marketing the device.
- 10) Please confirm that this device will only be sold as a system as covered by this application (Access point + PCMCIA Card and Amplifier).
- 11) The amplifier used with this system is an 1 Watt AGC amplifier. The test configuration photographs show the amplifier always used a standard length cable between the access point and the DC injector (see question 4) and a 3' cable between the DC injector and the amplifier. AGC amplifiers must be investigated for maximum and minimum gain conditions. It appears that only the minimum gain condition only has been investigated. Please provide test data that shows that the system still meets with the AGC amplifier under a maximum gain condition (i.e. add attenuation before the amplifier to create 3 mW condition specified by users manual).
- 12) Please comment on the cable length used for 12 dBi omni antenna shown in plots 3-5 through 3-8.
- 13) The maximum exposure separation distance given in the RF exposure exhibit does not match the distance as given in the users manual & test report. Please comment and provide corrected exhibits as appropriate. Note that warnings in the users manual mention 20 cm for the patch antenna.
- 14) The users manual mentions both a 500 mW and 1 W amplifier. Please note that this application only covers the 1 Watt version.
- 15) The second RF port appears to not have been connected. Please comment on if this port is disabled (as mentioned in the users manual).

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- 16) The users manual does not appear to include prohibition against co-location.
- 17) Information regarding 15.247(b)(3)(iii) should be included in the users manual.



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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.