



American Telecommunications Certification Body Inc.

6731 Whittier Ave, McLean, VA 22101

June 28, 2002

RE: Internet Telemetry

FCC ID: 02N1500

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

- 1) Please provide a clearer photograph(s) of just the RF portion of the board with the shield removed.
- 2) We did not find the new photographs provided for the antenna connector. Please upload again.
- 3) The revised OEM users manual on page 22 of 26 states:

" The TIM1500 is verified as a Class B Computing Device and receiver under Part 15 of the FCC rules.
As a transmitter, the TIM1500 is certified under Part 15.247 of the FCC rules."

The intended use of this device does not appear to be as a Class B Computer peripheral. Also, the test configuration was not configured as appropriate for a PC peripheral according to ANSI C63.4. Since this is being approved as a modular transmitter, please remember than any use of this product within a PC peripheral will require the integrator to test for Class A/B Computing Device emissions at that time. Please change the term Computing Device to the term digital device, or please give me a call to discuss should this be a concern.

- 4) Please provide the following information regarding a modular approval:
 - a) Please explain how the inputs/outputs are buffered. Please provide either part numbers and/or schematic designators.
- 5) You stated in your response regarding use of a DC source that "The EUT is intended for battery supply." Since you are requesting a modular approval, please explain how the manufacturer will ensure that any integrator will only utilize battery power and not an AC/DC converter or a circuit of their own design to supply the DC power. Alternatively you may provide data using a typical off the shelf AC/DC supply to show compliance with 15.207.
- 6) The receiver emissions should have been tested from 30 MHz to 5000 MHz, yet the test reports appears to show that the device was only tested to 1 GHz. Please comment.
- 7) The test data provided for the power measurement using the substitution method does not appear to match the test methodology applied. The data appears to calculate the data for the power received at 3 meters from the EUT and not actually the power transmitted by the EUT at the source. The substitution method typically involves taking a measurement from the signal generator source and correcting for its system loss (between signal source and substitution antenna which is usually minimal) and associated substitution antenna gain to arrive at the power transmitted at the antenna port by the EUT. It appears that the data provided may contain correction factors for a typical radiated setup of about 30 dB. Please thoroughly explain the test data, the use and purpose of the correction factors, and give sample calculations. Should there be any concern with this issue, please call to discuss.

A handwritten signature in black ink, appearing to read "Timothy R. Johnson".

Timothy R. Johnson
Examining Engineer

Direct Phone: 404-414-0871
[mailto: tjohnson@AmericanTCB.com](mailto:tjohnson@AmericanTCB.com)

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.