



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

September 21, 2004

RE: FCC ID: KBCIX260-PRO750BT\_ATCB001714  
Attention: Rod Munro

I have a few comments on this Application. Please note that further comments may arise in response to answers provided to the questions below.

1. Please note that the the EIRP of the Aircard 750 is reported as being different in the tow reports provided. (see test reports "Exhibit 6 Pt24E KBCIX260A750MPIBT Test Report CELLTECH LABS.pdf" and "Exhibit 6 Pt24E MaxRad EMC Test Report KBCIX260A750MPIBT.pdf") Please clearly identify what the EIRP of this device is. Please provide consistent information on the testing results and please provide only that data which is pertinent to this application.
2. FYI - Please note that EIRP power of a WLAN device is determined by the formula  $(E_d)^2/30G$  and is not the simple addition of conducted power + the gain of the antenna. Please note that as the conducted power has been provided, this is the power that will be on the grant. This is just and FYI for future calculation of EIRP of part 15 WLAN devices.
3. Please note that on page 4 of the report (Exhibit 6 Supplemental Test Report 2 Pt 15 WLAN KBCIX260-PROAC555.pdf) you state that the radiated field strength of the fundamental is 95.16dBuV/m at 3 meters. Please note that with the stated antenna gain of 4.5dBi this would be an EIRP or -4.6dBm. Please note that with the stated antenna gain of 4.5dBi it would be expected that a field strength of approximately 121dBuV/m at 3 meters would be measured. Please note that with the 95.1dBuV/m measured field strength and the stated conducted power, the gain of the antenna appears to be -20dB. While it may be expected that the difference between the field strength and EIRP values may vary by as much as 8dB, this is a difference of about 24dB. Please also note that the file name indicates that the proAC555 WLAN was tested and not the A750WLAN. Please explain.

*Dennis Ward*

Dennis Ward  
<mailto:dward@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.