



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

July 11, 2003

RE: FCC ID: QJFTRAKMUX
Attention: Wayne Langston

I have a few comments on this Application.

1. The schematics, report and manual indicate that the device has BNC connectors. Please note that this is not a unique connector. Unless the device is professionally installed it must use only a unique or permanently affixed antenna connection. This device is not certifiable using BNC antenna connector as submitted (no indication of professional installation provided). Please provide evidence as to how this device meets the antenna requirements of 15.203. -
2. The manual does not appear to contain the non modification statement required by 15.21. Please revise the manual to include this statement. -
3. The manual does not appear to contain the user information required by 15.105. Please revise the manual to include this statement. -
4. Please provide photos showing the top and bottom of ALL circuit boards. Please remove any shielding covering any circuit component or circuit. -
5. Please note that you have not shown the limit for the 27 MHz reading. The limits for spurious emissions from 1.705 to 30MHz are 29.5dB at 30 meters. While the 27 MHz reading appears compliant, you need to still show this in the report. -
6. The device appears to have AC capability either by direct AC line cord or by a power supply. Please provide conducted emissions data per part 15.207. -
7. Please note that Part 15 intentional radiators are typically one antenna devices. However, in some occasions multiple antennae can be used if the antenna system is fully explained and sufficient data is provided with multiple antenna(s) connected at the same time and setup in a typical fashion. The device appears to have multiple antenna connections. You have not provided information on the emissions when more than one antenna is connected. You must show that with the additional antennae connected and operating at the same time that the device field strength remains compliant at any point in the antenna spread. How close are these antennae to each other when they are in actual use? What happens to the field strength when multiple antennae are connected? Testing with only one antenna is not sufficient unless it can be shown that only one antenna operates at a time. If this is the case, please provide an explanation of how this works. Otherwise, please provide test data showing multiple antenna(s) connected to the transmitter. -
8. Please provide an operational description of the device. Please include how the multiple antennae are used. -

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.