



Zebra Technologies Corporation

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3/03/2003

Federal Communications Commission
7435 Oakland Mills Road
Columbia, MD 21046-1609

To Whom It May Concern:

In reference to the application for FCC ID#: I28MD-QL4137, this device is being submitted for MODULAR TRANSMITTER APPROVAL based on the guidelines in FCC Publication DA 00-1407. We believe that this transmitter meets all 8 criterion listed in DA 00-1407 as detailed in the paragraphs below.

Note that I28MD-QL4137 is a radio module made by Zebra Technologies and designed for use in Zebra Technologies QL Series portable printers and other Zebra printers that are not yet designed. This device has a proprietary interface that is only found on Zebra Technologies printers.

- 1) I28MD-QL4137 contains a Symbol Technologies LA-4137 802.11b spread spectrum radio in Compact Flash format. The LA-4137 was designed as a stand-alone radio and contains RF shielding.
- 2) I28MD-QL4137 has buffered inputs on all data, address and control lines. Further, the LA-4137 radio contained in I28MD-QL4137 has fully buffered inputs as well.
- 3) I28MD-QL4137 contains a voltage regulator that powers the LA-4137 radio.
- 4) I28MD-QL4137 contains an internal antenna. There are two antenna configurations; in one the antenna is integral with the LA-4137 radio and cannot be changed. In the other configuration the antenna is cabled to the radio with everything inside the module. The antenna, connector, and radio are all located internal to the I28MD-QL4137 module and are not accessible to the user. Further, the antenna connector used, Murata type GSC, is a new ultra-miniature coaxial connector that is not available to the end user and therefore qualifies as a unique connector under section 15.203. Both antennas were fully tested with the module.
- 5) I28MD-QL4137 was tested in a stand-alone configuration, outside of any Zebra printer.



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LETTER OF AGENCY

In reference to the application for I28MD-QL4137, I hereby authorize, until further notice, PC Test Engineering Laboratories, Inc., 6660-B Dobbin Road, Columbia, MD 21045, to act on our behalf in dealings before the Federal Communications Commission with respect to all matters relating to equipment authorizations for the Zebra QL series printer 802.11b radio module based on the Symbol Technologies LA-4137-1000-WW 802.11B direct sequence spread spectrum transmitter under Part 15 of 47 CFR.

I further certify that no party (as defined in Paragraph 1.2002(b) of CFR47, 1992) to this application, including myself, is subject to a denial of federal benefits, that includes FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U. S. C., 853(a).

Certified by: Steven F. Petteruti
Steven F. Petteruti
V.P., Engineering
Zebra Technologies Corporation

- 6) I28MD-QL4137 will have an FCC ID number on it's label that is clearly visible even when the module is inserted into a Zebra printer.
- 7) I28MD-QL4137 will only be used with Zebra Technologies printers; thus Zebra will maintain full control over the use of the module and can guarantee that all conditions for use will be met in any product that the module is installed in.
- 8) Many of the portable printers that I28MD-QL4137 will be used in are body worn devices subject to Part 2.1093 of the FCC rules. The module has been SAR tested in a typical, body worn configuration and has passed the RF exposure requirements.

Sincerely,

A handwritten signature in black ink, reading "Steven F. Petteruti". The signature is fluid and cursive, with the first name "Steven" and last name "Petteruti" clearly legible.

Steven F. Petteruti
V.P., Engineering
Zebra Technologies Corporation