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Client: Zebra Technologies
Model Name: AN16973-1
FCC ID: I28MD-QL3021
FCC: 15.247
IC: RSS-210

APPENDIX E: LIMITED MODULAR APPROVAL REQUEST

Please refer to the following page.



Zebra Technologies Corporation

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12/12/2003

Federal Communications Commission
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To Whom It May Concern:

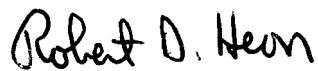
In reference to the application for FCC ID#: I28MD-QL3021, this device is being submitted for LIMITED MODULAR TRANSMITTER APPROVAL based on the guidelines in FCC Publication DA 00-1407. We believe that this transmitter meets all 8 criterion listed in DA 00-1407 as detailed in the paragraphs below.

Note that I28MD-QL3021 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. At this time we are requesting approval for the following hosts: QL320 and QL420. We have submitted SAR reports for each of these hosts showing compliance with the FCC's RF exposure requirements. We understand that upon certification the QL320 and QL420 will be the only hosts allowed for use with the I28MD-QL3021 module. Furthermore, we understand that in order to get approval for new hosts a Class II Permissive Change with SAR data for the new hosts will be necessary.

- 1) I28MD-QL3021 contains a Symbol Technologies LA-3021 802.11 frequency hopping spread spectrum radio in PCMCIA format. The LA-3021 was designed as a stand-alone radio and contains RF shielding. All RF circuitry is contained in the LA-3021 PCMCIA radio.
- 2) I28MD-QL3021 has buffered inputs on all data, address and control lines. Further, the LA-3021 PCMCIA radio contained in I28MD-QL3021 has fully buffered inputs as well.
- 3) I28MD-QL3021 contains a voltage regulator that powers the LA-3021 radio.
- 4) I28MD-QL3021 contains an internal antenna. The module/antenna is located internally to a Zebra QL family printer and is not intended to be accessible to anyone other than a factory qualified service technician.
- 5) I28MD-QL3021 was tested in a stand-alone configuration, outside of any Zebra printer.

- 6) I28MD-QL3021 will have a product label containing the FCC ID number that is clearly visible even when the module is installed in a Zebra printer.
- 7) I28MD-QL3021 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-QL3021 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,



Robert D. Heon
Project Engineer, Compliance
Zebra Technologies Corporation