Client: Zebra Technologies FCC: Part 15.247 IC: RSS-210 FCC ID: I28MD-ZLAN11G Model: ZLAN11G Radio Module

Appendix E: FCC Limited Modular Approval Justification

Please see the following pages.



May 4, 2006

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-ZLAN11G (Zebra ZLAN11G radio module using the Samsung SWL-2460 chipset radio), this device is being submitted for LIMITED MODULAR TRANSMITTER APPROVAL based on the guidelines in FCC Publication DA 00-1407.

Note that I28MD-ZLAN11G is a radio module that will be used exclusively within products made by Zebra Technologies Corporation.

- 1) I28MD-ZLAN11G is based on a Samsung SWL-2460 radio chipset. The Samsung SWL-2460 radio chipset is fully shielded.
- 2) I28MD-ZLAN11G has buffered inputs on all digital lines. Overdriving one or more of the digital inputs will have no affect on the transmitter output.
- 3) The ZLAN11G radio module is designed to accept regulated 3.3 VDC at its input. The voltage regulator for the 3.3VDC input is not located on the radio module board itself, thus a Limited Modular Approval is being sought. Further, since the module will only be used in Zebra products, Zebra has full control of the power supply to the radio module and will assure the correct regulated supply voltage is supplied.
- 4) I28MD-ZLAN11G will always be used with one of a family of approved antennas, all of which are mounted (with the radio) inside a finished printer. None of these antennas are user accessible, nor is the antenna cable / connector user accessible; for these reasons the antennas can be considered to be permanently attached. All of the antennas in the family have been tested with the radio module as part of the modular approval; test results are included with the application. If the radio is to be used with a new antenna, further testing will be performed and a Class II permissive change will be obtained.
- 5) I28MD-ZLAN11G was tested in a stand-alone configuration, outside of any Zebra printer.
- 6) I28MD-ZLAN11G will carry a label containing the Industry Canada ID number. As this module will always be mounted on the interior of a Zebra product, it will not be visible to an end user. Thus "Contains FCCID: I28MD-ZLAN11G" will appear on the external label of the product the radio is mounted into. All products

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containing this module will have this statement clearly visible. Examples of both the internal and external labels have been provided as part of the application.

- 7) I28MD-ZLAN11G will only be used with Zebra Technologies products; this includes printers built by Zebra that are branded for other companies. 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) Most of the products that I28MD-ZLAN11G will be used in are body worn devices subject to Part 2.1093 of the FCC rules. SAR testing has been performed on all of these product configurations containing this radio and the data submitted as part of this application. Additional SAR testing, where applicable, will be performed on any new product / antenna configuration that will be released in the future as part of the Class II permissive change that releases the new product / antenna.

Sincerely,

Mr. Charly I Serrow

Mr. Charles A. Derrow Manager, Corporate Compliance Engineering Zebra Technologies Corporation