



July 22, 2008

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-ZBR4RW (Zebra ZBR4RW radio module using the Taiyo Yuden EYSF3CAXI-Z radio chipset), this device is being submitted for **LIMITED MODULAR TRANSMITTER APPROVAL** based on the guidelines in FCC Publication DA 00-1407. Note that I28MD-ZBR4RW is a radio module that will be used exclusively within products made by Zebra Technologies Corporation.

- 1) I28MD-ZBR4RW is based on the Taiyo Yuden EYSF3CAXI-Z radio chipset. The Taiyo Yuden EYSF3CAXI-Z radio chipset is fully shielded.
- 2) I28MD-ZBR4RW 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 I28MD-ZBR4RW 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-ZBR4RW antennas which is mounted (with the radio) inside a finished printer. The antenna is not user accessible, nor is the antenna cable / connector user accessible; for these reasons the antennas can be considered to be permanently attached. 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-ZBR4RW is tested in Zebra host printers (RW220 and RW420).
- 6) I28MD-ZBR4RW will carry a label containing the FCC 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-ZBR4RW" will appear on the external label of the product the radio is mounted into. All products 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.

**Zebra Technologies Corporation**

333 Corporate Woods Parkway » Vernon Hills, IL 60061-3109 USA T+1 847 634 6700 F+1 847 913 8766 [www.zebra.com](http://www.zebra.com)



- 7) I28MD-ZBR4RW 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-ZBR4RW will be used in are body worn devices subject to Part 2.1093 of the FCC rules. However, the output power from this radio module is so small that it will easily meet all RF exposure requirements and does not require SAR testing.

Sincerely,



Charles A. Derrow  
Manager, Compliance Engineering