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Application For Limited Modular Approval (LMA)

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Introduction

I2r Ltd. is a wholly owned UK subsidiary of Sirit Technologies inc. of Toronto Canada and forms the design and development arm of the corporation.

Overview

The OEM 410 module is a Radio Frequency Identification (RFID) interrogator capable of reading from and writing to various 13.56MHz transponders.

The OEM-400v1.2 operates under the control of a host (in this case the AGFA Drystar 5500 printer and is designed to be integrated within the Agfa printer.

Limited Modular Approval (LMA) is requested to facilitate the integration of the OEM 410v1.2 and reduce the need for repeated testing. In accordance with Public Notice DA 00-1407 (June 2000) the following issues are addressed:

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History

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1 RF Shielding

This application relates to the specific incorporation of the OEM 410 module into the Agfa Drystar 5500 series printer as such all tests were performing using the unit in free space without additional screening.

2 Data inputs

The OEM 410 is command driven. No RF is generated without the receipt of a valid command. Commands are received via the RS232 port at a baud rate of 9600 baud. Since the data input is digital it is not possible to cause over modulation. Similarly an excessive data rate will prevent the command from being decoded and acted upon.

3 Power Supply regulation

The OEM 410 receives its regulated power supply from the Drystar printer. All testing was carried out using a power supply from the Drystar 5500 printer.

4 Antenna

The antenna is incorporated into the PCB of the OEM 410. There is no facility to connect an external antenna to this module.

5 Labelling

The OEM 410 is labelled on the bottom side of the PCB using a self-adhesive label as shown in Figure 1.



Figure 1: Design of OEM410 label (not to scale)

Since this will not be visible when the OEM 410 is installed in the final product the installation instructions specifies that the final product should display a label including the text "Contains Transmitter Module FCC ID: P5ROEM410V12".

6 Specific operating requirements

There are no operating requirements for Section 15.225 that can be modified by the user.

7 RF exposure requirements

There are no RF exposure implications with operating the OEM 400 V1.2

