

Credentia™

A Datacard® Group Company

FCC Submittal Information:

RE: Inclusion of FCC approved Gemplus Micro680 Smartcard Coupler in DataCard Printers.

Theory of Operation:

A Datacard-Credentia Card Printer is used to print graphics and text on blank PVC card stock. These printers will also print on cards commonly known as “smartcards” that incorporate a chip into the body of the card. Additionally, Datacard provides the communication ability to program and read information from these chips via a device called a smartcard coupler.

The enclosed submittal information is for inclusion of a device that falls into the category of an “intentional radiator” of low frequency emissions. The device in question is manufactured by Gemplus corporation, and is known as their model Micro680. It has already undergone separate testing and approval by the FCC from the manufacturer. We have also passed the necessary “bench” test testing at TUV for inclusion in our printers.

The Micro680 coupler is a short-range, low frequency and intensity transmitting device with an effective operating range of up to 1” (one inch) maximum. The Datacard printers process a smartcard by placing the plastic card directly in front of the coupler device and approximately ¼ inch away. Once the card is in place, a software program will download information to the coupler via a standard 9 pin Dsub serial port. The coupler device is self contained, and it’s antenna and shielding are integrated into the device. The programming of the card takes place via the short range RF signal. Programming times will vary with specific applications, but will generally fall in the range of 3-30 seconds. When processing is complete, the printer will add the graphics and complete the printing.

This device has also undergone testing for CE approval in Europe, both independently, and with DataCard printers. It has also undergone testing and licensing with the FCC from the manufacturer (Gemplus Corporation). Please refer to the FCC filings for specification details.

Frequency Specification:

13.56 MHz

Frequency Tolerance Range:

13.55530 to 13.56670 MHz

Emission Designator: DXX

Power Output - watts: -20dBuA/m at 10m with a frequency of 13.56MHz

Operating Range: 0 to 25mm (1")

Additional Devices:

None required. This device is a stand-alone coupler with integrated antennae and ferrite shielding. No other devices are required to operate this coupler in Datacard printers.

User Information:

The following language will be included as an addendum to the official Datacard-Credentia User's Guide for printers containing this device as per section 15.21

"Notice to Users of Printers Equipped with Contactless Smart Card Coupler:

The contactless smart card coupler emits radio-frequency waves and must be used as installed and recommended by Datacard-Credentia, the printer manufacturer. You may not modify the coupler or how it is used without the permission of Datacard-Credentia. You may not operate the printer after modifying the coupler or it's method of operation."

All new User Guides will contain this information as well as an indication in the table of contents, in the section titled "Approvals and warnings"

Labeling Requirements:

See Enclosed label samples and photographs, for compliance with Section 15.19



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