

DatacardGroup

SECURE ID AND CARD PERSONALIZATION SOLUTIONS

Datacard Group
11111 Bren Road West
Minnetonka, MN 55343-9015

Tel. 952.933.1223
Fax 952.933.7971
www.datacard.com

May 11, 2004

TCB
TÜV America Inc
10040 Mesa Rim Road
San Diego CA 92121

Dear Sir or Madam:

We, DataCard Corporation [11111Bren Road West, Minnetonka, MN 55343], hereby authorize TÜV America Inc - Product Service [1775 Old Highway 8, Suite 104, New Brighton MN 55112-1891] to act as our agent in all matters relating to applications for equipment authorization, including the signing of all documents relating to these matters. I further certify that the applicant nor any party to the application is subject to a denial of Federal benefits, that includes FCC benefits, pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862.

This authorization expires on **5/12/05**.

Sincerely,



John Bergstrom
Vice President of Engineering
952 988 2945
952 988 2945
john_bergstrom@datacard.com

July 1, 2004

TCB
TÜV America Inc
10040 Mesa Rim Road
San Diego CA 92121

Dear Sir or Madam:

We, DataCard Corporation [11111Bren Road West, Minnetonka, MN 55343], has added two 0.1uF capacitors from the 5 Volt input to Ground (Pins 8-7 and pins 10-9) to meet the FCC radio requirements. The following is the list of approved manufacturers and models for this part:

- AVX CORPORATION 12065C104K
- KEMET ELECTRONICS DIV C1206C104K5RAC
- YAGEO 12062R104K9B20D
- YAGEO CC1206KRX7R9BB104

These changes were implemented on ECO 58009.

Sincerely,



Rick Hokanson
Senior Agency Engineer
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Datacard Group
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April 21, 2004

TCB
TÜV America Inc
10040 Mesa Rim Road
San Diego CA 92121

Re: Request of Confidentiality

Pursuant to Sections 0.457(d)(1)(ii) and 0.459 of the Commission's Rules, the Applicant hereby requests confidential treatment of information accompanying as outlined below:

- Schematics
- Operating (Technical) Description

The above materials contain trade secrets and proprietary information not customarily released to the public. The public disclosure of these matters might be harmful to the Applicant and provide unjustified benefits to its competitors.

The Applicant understands that pursuant to Rule 0.457(d)(1)(ii), disclosure of this Application and all accompanying documentation will not be made before the date of the Grant for this Application.

Sincerely,



John Bergstrom
Vice President of Engineering
952 988 2945
952 988 2945
john_bergstrom@datacard.com

June 30, 2004

TCB
TÜV America Inc
10040 Mesa Rim Road
San Diego CA 92121

RE: FCC ID: GDI- SID004

1. The modular transmitter must have its own RF shielding. This is intended to ensure that the module does not have to rely upon the shielding provided by the device into which it is installed in order for all modular transmitter emissions to comply with Part 15 limits. It is also intended to prevent coupling between the RF circuitry of the module and any wires or circuits in the device into which the module is installed. Such coupling may result in non-compliant operation.

The Supplies ID radio transmitter complies with the FCC requirements in a stand-alone configuration.

2. The modular transmitter must have buffered modulation/data inputs (if such inputs are provided) to ensure that the module will comply with Part 15 requirements under conditions of excessive data rates or over-modulation.

The RC400 chip that is used to control the transmission of data, controls the Modulation, Data rate, and data buffer. The RC400 chip contains a set of registers that hold the data values and a value for the AM modulation. The Am modulation can not exceed 100% due to the design of the RC 400 technology.

3. The modular transmitter must have its own power supply regulation. This is intended to ensure that the module will comply with Part 15 requirements regardless of the design of the power supplying circuitry in the device into which the module is installed.

The Supplies ID radio transmitter is to be incorporated into Datacard equipment only. The transmitter is provided with a 5V regulated supply. The 5V supply has been filtered at the Supplies ID board to ensure compliance with the Part 15 requirements.

4. The modular transmitter must comply with the antenna requirements of Section 15.203 and 15.204(c). The antenna must either be permanently attached or employ a "unique" antenna coupler (at all connections between the module and the antenna, including the cable). Any antenna used with the module must be approved with the module, either at the time of initial authorization or through a Class II permissive change. The "professional installation" provision of Section 15.203 may not be applied to modules.

The Antenna is a permanent part of the supplies ID circuit board, created with circuit traces embedded in the circuit board.

5. The modular transmitter must be tested in a stand-alone configuration, i.e., the module must not be inside another device during testing. This is intended to demonstrate that the module is capable of complying with Part 15 emission limits regardless of the device into which it is eventually installed. Unless the transmitter module will be battery powered, it must comply with the AC line conducted requirements found in Section 15.207. AC or DC power lines and data input/output lines connected to

the module must not contain ferrites, unless they will be marketed with the module (see Section 15.27(a)). The length of these lines shall be length typical of actual use or, if that length is unknown, at least 10 centimeters to insure that there is no coupling between the case of the module and supporting equipment. Any accessories, peripherals, or support equipment connected to the module during testing shall be unmodified or commercially available (see Section 15.31(i)).

The Supplies ID component was tested in a stand-alone configuration. The RF circuit board, ID tag, and Power supply were tested in accordance with FCC part 15.

6. The modular transmitter must be labeled with its own FCC ID number, and, if the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following: "Contains Transmitter Module FCC ID: XYZMODEL1" or "Contains FCC ID: XYZMODEL1." Any similar wording that expresses the same meaning may be used. The Grantee may either provide such a label, an example of which must be included in the application for equipment authorization, or, must provide adequate instructions along with the module which explain this requirement. In the latter case, a copy of these instructions must be included in the application for equipment authorization.

The Supplies ID circuit board will be labeled with a label containing the Datacard corporate name and the FCC ID number. The Datacard products that contain the Supplies ID option will have the same label on the outside of the product.

7. The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements. A copy of these instructions must be included in the application for equipment authorization. For example, there are very strict operational and timing requirements that must be met before a transmitter is authorized for operation under Section 15.231. For instance, data transmission is prohibited, except for operation under Section 15.231(e), in which case there are separate field strength level and timing requirements. Compliance with these requirements must be assured.

The Supplies ID product does not have a manual. The Supplies ID device is a component part that is only incorporated in DataCard equipment.

8. The modular transmitter must comply with any applicable RF exposure requirements. For example, FCC Rules in Sections 2.1091, 2.1093 and specific Sections of Part 15, including 15.319(i), 15.407(f), 15.253(f) and 15.255(g), require that Unlicensed PCS, UNII and millimeter wave devices perform routine environmental evaluation for RF Exposure to demonstrate compliance. In addition, spread spectrum transmitters operating under Section 15.247 are required to address RF Exposure compliance in accordance with Section 15.247(b)(4). Modular transmitters approved under other Sections of Part 15, when necessary, may also need to address certain RF Exposure concerns, typically by providing specific installation and operating instructions for users, installers and other interested parties to ensure compliance.

RF Exposure is not a concern with this device. The intended range of communications is a maximum of 4 inches, and the fundamental frequency of the transmitter is 13.56 MHz. The unit has an ERP of 50 nanowatts, well below the minimum RF exposure requirements.