

GO CARD®

Fast, secure and multi-application contactless smart card



Cubic GO CARD® is the fastest contactless smart card available in the market today due to its design and the use of FeRAM technology. It provides the added benefits of high memory while offering cost-effective solutions designed specifically for transit applications.

With its proprietary contactless design, the GO CARD® is less susceptible to wear and contamination and can be used in demanding environments.

The GO CARD® incorporates a sophisticated message protocol designed to minimize

the risk of fraud and counterfeiting. The message protocol is based on known cryptographic algorithms and techniques.

The GO CARD® includes speed-optimized Triple DES for Secure Message Authentication.



Giesecke & Devrient



Giesecke & Devrient (G&D) has delivered several million GO CARD® smart cards for major transit systems including:

- USA:
Washington Metropolitan Area Transportation Authority (WMATA)
- USA:
Washington DC Department of Protective Services
- USA:
Chicago Transit Authority (CTA)

Technical Data GO CARD®

GO CARD® Communication Interface

- ISO/IEC 14443, Type B
- Contactless transmission of data and powered by the RF field (no battery needed)
- Up to 100 mm operating distance
- 13.56 MHz operating frequency
- Fast data transfer: 115 kBaud
- High data integrity
- True deterministic anti-collision
- Less than 100 ms per typical transaction

Security Features

- GO CARD® security features are proprietary and confidential
- Triple DES Secure Message Authentication

Materials and Form Factors

- PVC
- PETG
- Composite materials
- Form factors other than ISO 7810 available on request

Memory

- 2 KB FeRAM
- 10-year data retention
- Virtually unlimited write cycles (over 1 billion)

Printing and Personalization

- 4-color offset litho or screen printing
- Thermal transfer printing
- Transparent matt overlay
- Laser engraving
- Magnetic stripe
- Signature panel
- Serial numbering
- Barcode
- Hologram
- Embossing

Standards

- ISO 14443
- ISO 7810
- ISO 10373

Memory Organization/ Multi-Applications

- Memory segmented into 16 pages

Operating Conditions

- Temperature: -20°C to 50°C

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