M8-01
Contactless Smart Card

Specification

- Memory — 8-KBit EEPROM, read/write
- RF interface — As suggested by ISO/IEC 14443, type A
- Fixed serial number — Unique, 32 bit
- Multi-application memory — 16 sectors
- Operating frequency — 13.56 MHz
- Communication speed — 106 K-baud
- High data integrity — 16 Bit CRC, parity, bit coding, bit counting
- Typical transaction — <100ms (including backup management)
- True anticollision
- Write endurance — Minimum 100,000 cycles
- Data Retention — 10 years
- Operating Range — Typical 0-10 cm* (at 23°C ±3°C)

* 5cm for W110 series reader

Physical

- Dimensions — ISO 7816-7810 compliant (except thickness that can be up to 0.9 mm)
- Material — PVC or equivalent material at card surface with gloss laminated surface.
- Color / printing — White card
- Pre-printing — Full-color printing under transparent overlay (option)

Security

- Mutual three pass authentication (ISO/IEC DIS9798-2)
- Data encryption on RF-channel with replay attack protection
- Individual set of two keys per sector (per application to support multi-application with key hierarchy)
- Unique serial number for each device

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