eSSL®

Security at Fingertips

DATA CARD

S70

Hotel Lock MF Cards

S70

Specification

Contactless transmission of data and supply energy (no battery needed)

· Operating distance: Up to 100mm (depending on antenna geometry)

· Operating frequency: 13.56 MHz

· Fast data transfer: 106 kbit/s

· High data integrity: 16 bit CRC, parity, bit coding, bit counting

· True anticollision

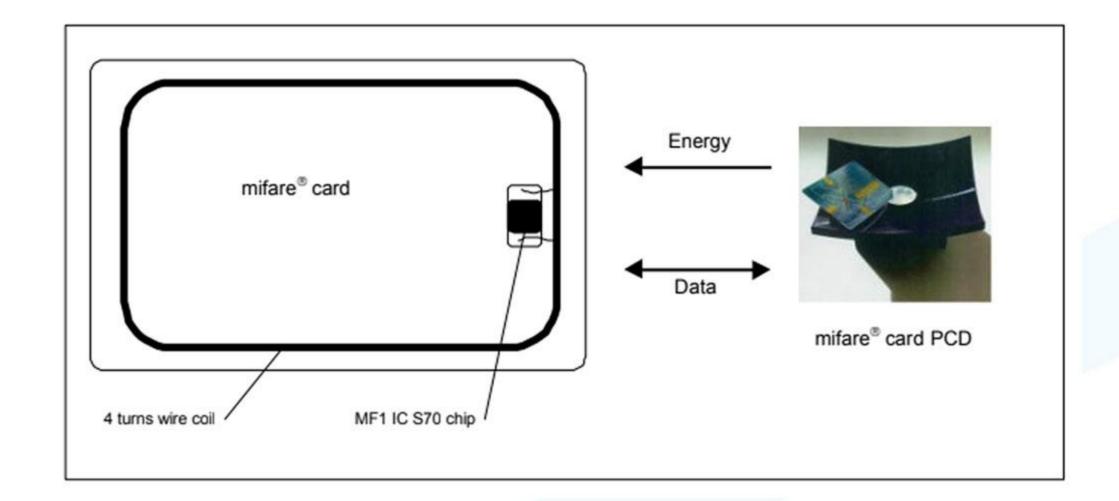· Typical ticketing transaction: < 100 ms (including backup management)

Security

· Mutual three pass authentication (ISO/IEC DIS9798-2)

· Data encryption on RF-channel with replay attack protection

· Individual key set per sector (per application) to support multi-application with key hierarchy

· Unique serial number for each device

· Transport key protects access to EEPROM on chip delivery

Data Integrity

· 16 bits CRC per block

· Parity bits for each byte

· Bit count checking

· Bit coding to distinguish between "1", "0", and no information

· Channel monitoring (protocol sequence and bit stream analysis)

Used For : Time card , Authorizing Card and Query Card, Terminating Card

mifare® card

Energy

Data

mifare® card PCD

4 turns wire coil   MF1 IC S70 chip

ISO FC CE RoHS