



Contactless Cards

MIFARE Classic® Cards

IRIS offers premium contactless cards featuring the MIFARE Classic® loaded with best in class security features and optimised for reliable transactions (ISO/IEC 14443 Type A compliant and operating in the 13.56 MHZ frequency range with read/write capability). Available in 1K and 4K memory versions for applications in multi-application and mobile environments, IRIS' contactless cards are ideal for high volume transactions in a wide variety of applications such as transport ticketing, time attendance solutions, car parking, access control, etc.



Contactless



Durable



Secure



Interoperable



High Speed

SPECIFICATION

Physical Characteristics

Complies to	ISO/IEC 7810: ID1-sized cards ISO/IEC 7816, Part 3 (Chip Command) ISO/IEC 14443 Type A (Parts 1-3) ISO/IEC 10373, Durability & Chemical Resistance
Length	85.60 mm (tolerance: +0.12 / -0.13)
Width	53.98 mm (tolerance: +0.05 / -0.06)
Thickness	0.76 mm (~0.84)

Silicon

Chip Type	Wide variety of silicones available
Memory Size	1K or 4K EEPROM

Electrical

Communication Distance	Up to 10cm
Operating Frequency	13.56MHz
Data Rate	Up to 848kbps
Anticollision	Yes
Typical Ticketing Transaction	<100ms
Data Retention	Up to 10 years
Write Endurance	Min. 100,000 cycles

Security Features

Chip Security	<ul style="list-style-type: none">- Mutual three pass authentication- Data encryption on RF-channel with replay attack protection- Individual key set per sector to support multi-application with key hierarchy- Unique serial number- Transport key protects access to EEPROM on chip delivery
Security Printing	<ul style="list-style-type: none">- Guilloche- Microtext- Relief Fine Line Background- Invisible Ultra Violet (UV) Fluorescent Print- Rainbow Effect- Thermochromic Effect- Colour Change Ink (CCI), and many others

Card Material

Material	PC/PVC (Glossy/Matt finishing)
Card Life	Up to 10 years
Durability Test	Passed durability and chemical resistance test according to ISO/IEC 10373 test standard, Bending and Torsion test up 100,000 cycles



Access Control



Banking & Finance



Government Agencies



Healthcare & Insurance



ID Cards



Loyalty & Membership



Transportation

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