



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

## 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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TM IRIS CORPORATION BERHAD 199401016552 (302232-X)

Email: [marketing@iris.com.my](mailto:marketing@iris.com.my)  
[www.iris.com.my](http://www.iris.com.my)

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