

**VEREX**



contactless smart cards

# Access Control ..... with .....



## The MIFARE® Advantage...

Developed by Philips Electronics, initially for use in the cashless transit and vending markets, MIFARE is a contactless smart card to which data can be written as well as read for multiple applications using the same card. With a 13.56 MHz operating frequency, MIFARE provides high speed, reliable, secure, communications with high data integrity.

For access control, MIFARE smart card systems provide the convenience, long life, and low maintenance of proximity card systems plus...

**Multiple Applications...** Cards have a large memory which may be used for up to 16 applications. Applications can be read only or read/write ePurse and Data applications.

**High Security...** Each card has a unique serial number. Wireless data transmission between the card and the reader is encrypted. Each application is separated from the others and protected by a 48 bit key. Mutual authentication is provided between card and reader to ensure that the card being presented is valid. High security ensures that cards cannot be duplicated and data cannot be compromised.

**Open Platform...** Cards can be purchased from any MIFARE vendor. Customers are not tied to a single vendor.

**Biometric Security...** The larger memory of the MIFARE card allows storage of a user biometric such as a fingerprint. This ensures that a card is not loaned, or shared among users. Cardholder privacy is protected because the biometric is kept on the card rather than stored in a central database.

**Retrofittable...** MIFARE readers produce a Wiegand output thus allowing MIFARE cards and readers to be retrofitted to any existing Wiegand based access control system.

**Combo Cards...** To facilitate the transition from existing access control systems, multiple technology cards are available.

**MIFARE... Card with a Future!**

# Up To 16 Applications On A Single Card!

**ePurse** applications...



transit fares

**Data** applications...



ID cards, passports



vending machines



medical records



parking control



time & attendance



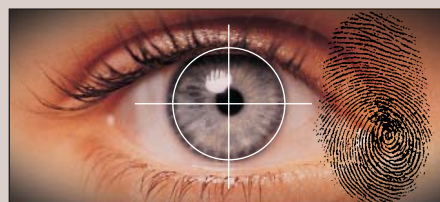
phone cards



library cards

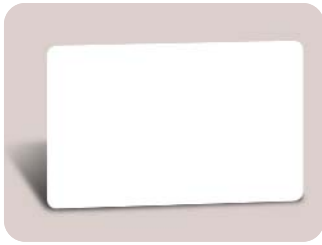


toll roads



biometric ID

## MIFARE Cards & Tokens



### Card

- Contactless MIFARE technology
- ISO compliant
- Durable PVC plastic design
- Credit card size



### Key Fob

- Contactless MIFARE technology
- Convenient
- Provides durability
- Small size for key chain use



### Tag

- Contactless MIFARE technology
- Convenient
- Self-adhesive to allow upgrade from older technologies
- Can be adhered to non-metallic articles such as cell phones



### Card with Magstripe

- Contactless MIFARE technology with Magstripe
- ISO compliant
- For applications requiring two technologies

## MIFARE Access Control Readers



### Switch Plate

- MIFARE Reader
- Wiegand output
- LED indicators to display door and card read status
- For indoor and outdoor applications



### Mullion

- Mullion style MIFARE Reader
- Wiegand output
- LED indicators to display door and card read status
- Slim design for mounting on door frames
- For indoor and outdoor applications



### Arming Station

- Switch plate MIFARE Reader and arming station
- Wiegand output
- Facilitates comprehensive area control without the need for additional keypads
- LED indicators to display door and card read status
- For indoor and outdoor applications



### Vandal Resistant

- MIFARE Reader
- Wiegand output
- LED indicators to display door and card read status
- Rugged die cast and machined metal case making it vandal resistant

# VEREX

### VEREX Technology

5201 Explorer Drive  
Mississauga, ON  
L4W 4H1 Canada  
tel +1 905.206.8434  
fax +1 905.629.4970  
www.verextech.com

### Regional Offices :

**Canada** . . . canada@verextech.com  
+1.905.206.8434

**USA** . . . . . eastusa@verextech.com  
+1.516.488.6689

midwestusa@verextech.com  
+1.513.573.0665

**Europe** . . . . . europe@verextech.com  
+31(0)-78.6394530

**United Kingdom** . . . uk@verextech.com  
+44(0)-1375.378838

**Other Regions** . . . . sales@verextech.com  
+1.905.206.8434