



# CREDENTIALS - CARDS

## Product Overview

Access control systems commonly require physical credentials to authenticate and approve access. BQT Solutions offer a range of secure credential options that can be preconfigured or customized to suit your needs.

Card credentials are the most popular form of credentials due to their ease of use and customization ability. BQT stocks a wide range of cards to suit the most common communication technologies – 125KHz, 13.56MHz MIFARE Classic or MIFARE DESFire EV1, EV2, and what we don't have in stock, we can order in for you.

## Why BQT Solutions

BQT Solutions is a specialist in the development, manufacture and supply of high quality, high security card and biometric readers, electromechanical locks and related electronic security products. Providing high security solutions to verticals such as Airports, Hospitals, Prisons and Government for over 35 years.

*Innovating today for a more secure tomorrow*

## Product Benefits

### Benefit One

Card credentials are designed to mimic the same card size as a credit card or license. This standard size means access credentials fit nicely into wallets, card holders and pockets.

### Benefit Two

Card credentials will typically have a printed ID number however the rest of the card is left blank. Many clients choose to print their own designs onto the cards making the access credential a proof of ID for many businesses or campuses which eliminates the need for employees and students to carry multiple cards and credentials

### Benefit Three

Secure encryption, working with 13.56MHz, MIFARE Classic or MIFARE DESFire credential data, card credentials can also be programmed to work with a custom access key. If your security systems are currently using 125kHz cards (commonly Prox cards), now is a good time to consider upgrading your systems as this technology can be easily cloned, creating an insecurity in your access control system without taking up any significant space.

## PRODUCT FEATURES

### MIFARE Classic

MIFARE Classic was the first version of a high frequency, more secure MIFARE card system. Storing the card number on one of its sectors, the card then encrypts the communication between the card and reader, and is exponentially harder to hack compared to its predecessors.

### MIFARE DESFire

MIFARE DESFire added to this step change in security and is the most secure of the MIFARE card systems. It features a cryptographic module on the card that adds an additional layer of triple DES and AES encryption to the card/reader transaction which reduces the risk of cloning or copying of cards. This is one of the highest standards of card security currently available.

### Custom encryption keys

BQT Solutions also offers the ability for an integrator or end user to purchase their own reserved set of encryption keys. This effectively gives the organization their own entire set of globally unique site codes and card numbers, protected with their unique encryption key, for that site. This means there is no chance of other cards from ever working on that site.

## PRODUCT APPLICATIONS

The most commonly used credential globally and used in every market sector.

