miPASS))))

BQT's miPASS suite of Mifare 13.56MHz readers and smart cards opens the gateway to multiple security applications including access control, biometric authentication, IT security, e-purse, e-vending, time & attendance and much more!

The increasing demand for single card solutions has contributed to the rapid growth of Mifare contactless smart card technology. With the addition of available applications such as access control, time & attendance, biometric template storage, loyalty or club membership, cashless payments and ticketing systems, a smart card provides the user with a cost effective and enhanced alternative to conventional proximity cards

What is MIFARE?
Mifare is contactless smart card technology (13.56 MHz radio frequency / ISO 14443A) by Philips Electronics, who make and openly sell the card and reader chips worldwide. The miPASS Mifare smart card contains a memory chip that stores all data within secured sectors of the chip. Application data is encoded directly into the memory chip of the miPASS card, which is secured with encryption keys protecting the card holder's information from being compromised.

BQT's miPASS contactless smart card range provides full read and write function capabilities, thus allowing cards to be re-used or the addition of further data and applications as your requirements demand. miPASS contactless smart cards have no contact plates for data exchange, communicating instead using wireless technology with the reader.

The advantages of contactless over contact cards include a shorter transaction without the time consuming step of inserting a card into a slot, data retention of up to 10 years, along with the convenience of data transfer through all non-metallic materials, eliminating the concerns of humidity, dirt and dust.

BQT offers standard miPASS 1kb & 4kb smart cards, alternatively a miPASS Keytag is available and can be used for such applications as memberships at a gym or video store, or where a smart card may not be suitable or required.

The miPASS smart card is also available in DES*Fire* format, a technology that allows 3DES (Digital Encryption Standard) encrypted RF communication between a miPASS DES*Fire* card and reader. DES*Fire* technology is can be used wherever the ultimate in security is required, such as Financial Institutions, Military and Government as it provides the most secure card transaction process available.
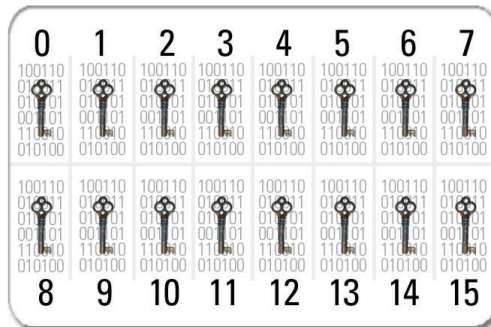
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bqt SOLUTIONS

Chip Specification

Operating frequency	13.56Mhz
Transaction time	< 100ms
Baud rate	106 K bits
Memory size	1 & 4 Kby Read/Write (other sizes available)
Encryption	DES*Fire* encryption with miPASS DES*Fire* 4Kb card
Memory type	EEPROM
Multi-application memory	16 sectors
Fixed serial number	32 bits
Write endurance	> 100,000 cycles
Data retention	10 Years

Card Specification

Type	Laminated PVC / PVC-Card/ISO14443A
Temperature range	35˚C to + 70˚C (- 31˚F to +158˚F)
Surface	High gloss
Print quality	Very high quality with PVC overlays
	NOTE: print quality may vary depending on card printer used.
Card read range	20-60mm (0.8" - 2.4") (typically)
Size	86mm x 54 mm

Multiple Applications
One Smart Card

Application data is encoded directly into the memory chip of the miPASS card, which is secured with encryption keys protecting the card holder's information from being compromised.

- **Biometric Authentication**
- **Personal Identification**
- **Access Control**
- **PC Login**
- **IT Security**
- **Cost Recovery**
- **Loyalty Programs**
- **Car Parking**
- **Health & Safety**
- **Cashless Vending**

BQT offers a complete range of smart card access control solutions to suit all physical & IT security requirements, including highly secure biometric, data encryption and CCTV technologies.

For further information, please visit our website www.bqtsolutions.com or contact us at one of our global locations.

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