Mini Series BM684 | BM686

High Security
Not Compromised By Price
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BQT's miPass suite of DESFire /Mifare (13.56MHz) readers and smart cards offers superior security and flexibility through its enhanced customisation and encryption options to suit all access control requirements.

Learn More miPass Mini Series

The miPass Mini Series from BQT Solutions supports the latest in contactless smart card technologies. The RF encryption between card and reader is customisable and supports Crypto1 (Mifare), as well as DES and 3DES (DESFire EV1).

The readers are capable of reading secure DESFire Applications, Mifare Classic Sectors or Card Serial Number (CSN/UID) simultaneously making it a true Hybrid Reader. It offers a seamless upgrade path to a far superior encryption platform than currently provided by Mifare Classic.

For further security enhancements, the BM684 and BM686 readers can be used in conjunction with a BQT-HSM to encrypt the data between the reader and access control system to offer the highest level of security on the market today.
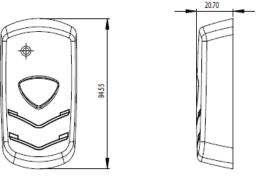
The sleek new design of the mini series combined with the latest in contactless smart card technologies provides the optimal choice for any security application.

miPass Mini Series Technology

Additional Features:
- Easily configurable using a DESFire SETUP Card for secure transmission of keys .
- Single Solution Reader – Mifare Sector, DESFire Application or Both (encrypted or non-encrypted).
- Reads any Mifare Classic or DESFire Card – optional UID/CSN read if unknown application.
- Seamless migration path.
- Supports multiple encryption methods such as DES, 3DES*(DESFire EV1) or Crypto 1 (Mifare).
- Configurable Output data formats up to 128 bits*.
- Supports standard Wiegand, RS485 or Encrypted RS485 Output protocols to control panel.
- Open standard protocols for 3rd party integration.
- Supports Key Diversification.
- "Green" Reader – draws as little as 60mA in powersave mode.
- Onboard bootloader enables future upgrades.

* BM686 only

miPASS mini series Specifications

	BM684	BM686
Card Type	Mifare or DESFire or DESFire EV1 13.56MHz ISO14443 A/B	
miPass card options	DESFire / DESFire EV1 Cards, FOBS or Clamshells Mifare 1KB or 4KB Cards, FOBS or Clamshells	
Sector / application keys	- BQT Sector / Application	- Customisable - Site Specific
Read and write	Yes	
RF Encryption	- Crypto 1 (Mifare) - DES & DESFire EV1	-Same as BM684 plus 3DES (DESFire)
Output protocol	- Wiegand	- Wiegand - RS485 - Encrypted RS485(with BQT HSM)
Output formats	- 26 bit, 27 bit, 34 bit & 37 bit	- Custom format up to 128 bit
Power requirement	7 -20 Vdc	
Current consumption	- Normal - 100mA - Activated - 130mA - Powersave Mode - 60mA	
Typical card read range	20-40mm (0.8" - 1.6")	
Operating temperature	-25°C to +65°C (-13°F to +149°F)	
Relative humidity	90% max, operating non-condensing	
Reader dimensions	84.55mm(L) x 42.95mm(W) x 20.70mm(D) (3.33" x 1.69" x 0.81")	
Status LED's	Green and Red	
Audible tone	- Internal & external buzzer control	- Configurable using "Set up card"
Colour finish	Charcoal	
Certifications	FCC, CE, C-tick (pending)	
IP rating	IP65 (pending)	
Warranty	5 years	

BQT offers a complete range of smart card access control solutions to suit all physical and IT security requirements, including highly secure biometric, data encryption and CCTV technologies.
For futher information, please visit our website www.bqtsolutions.com or contact us for the distributor nearest you.

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