



*BQT Solutions is a specialist manufacturer of access control, biometric and smart card technology.*

*The BQT name has long been associated with the high security marketplace and boasts a global client list encompassing military installations, major international airports, government departments, major corporations, hotels, retail and commercial customers. BQT solutions now offer a complete range of medium to high level security solutions to all sectors of the marketplace through its MiniGuard Range of security smart card readers.*

*All BQT manufactured products are designed and developed in Australia to high quality and reliability standards by experts in Smart Card and Biometrics technology. BQT Solutions is wholly owned by 4C Security Solutions Limited, a company listed on the Australian Stock Exchange.*

*The Group also markets its electronic locking products under its own Magna Electronics and YNOTLOC brands which provide quality electromechanical locking systems to the access control, architectural hardware, distribution, commercial and retail markets globally. The lock range broadly falls into two categories; security and safety. YNOTLOC products have been exported to more than 20 countries in 6 continents over many years.*

### BQT Contact Details

#### AUSTRALIA

BQT Solutions (Australia) Pty. Limited  
Level 1, 82 Waterloo Road  
Macquarie Park, NSW 2113 Australia  
Phone: +61 (0)2 8817 2800  
Fax: +61 (0)2 8817 2811  
Email: [sales@bqtsolutions.com](mailto:sales@bqtsolutions.com)

#### GREATER ASIA

BQT Solutions Singapore Office  
SGX Centre 2, 4 Shenton Way, #14-02  
Singapore 068807  
Phone: +65 6220 7970  
Fax: +65 6220 7656  
Email: [salesasia@bqtsolutions.com](mailto:salesasia@bqtsolutions.com)

#### EUROPE AND MIDDLE EAST

BQT Solutions (UK) Limited  
Regal House, 70 London Road Twickenham  
Middlesex, TW1 3QS United Kingdom  
Phone: +44 (0)20 8622 4428  
Fax: +44 (0)20 8622 4401  
Email: [sales@bqtsolutions.co.uk](mailto:sales@bqtsolutions.co.uk)



The BQT Solutions™, YNOTLOC™, OMNIPass™ and MiniGuard™ logos are registered trademarks of related entities of 4C Security Solutions Limited.”

Distributed by: -



*SMART Reader*

*Series*



**smartersecuritytoday**

## BM682 – Mifare Classic

Reads CSN or BQT Sector Diversified Keys

Card Type	Mifare 13.5MHz ISO14443 A/B
Card Options	Mifare 1Kb or 4Kb Cards, Fobs, or Clamshells
Read & Write	Yes
RF Encryption	Crypto 1 Mifare
Output protocol	Wiegand
Output formats	26,27,34 and 37 bit
Power requirements	7-16vDC 70ma MAX
Typical Read Range	20 – 40mm (0.8” – 1.6”)
Operating Temperature	-25deg C to +65deg C
Relative Humidity	90% max, non-condensing
Reader Dimensions	84.55mm(H) x 42.95mm(W) x20.7mm(D)
Status LED's	Green & Red
Audible Tone	Internal & External Buzzer
Colour	Charcoal
Certifications	FCC,CE, C-tick (compliant)
IP Rating	IP65
Warranty	5 years
Mounting Option	Universal Mounting Plate (BM-UBP)

## BM683 – Mifare Classic

Reads Custom keys & Custom Formats

Card Type	Mifare 13.5MHz ISO14443 A/B
Card Options	Mifare 1Kb or 4Kb Cards, Fobs, or Clamshells
Read & Write	Yes
RF Encryption	Crypto 1 Mifare
Output protocol	Wiegand
Output formats	26,27,34 and 37 bit
Power requirements	7-16vDC 70ma MAX
Typical Read Range	20 – 40mm (0.8” – 1.6”)
Operating Temperature	-25deg C to +65deg C
Relative Humidity	90% max, non-condensing
Reader Dimensions	84.55mm(H) x 42.95mm(W) x20.7mm(D)
Status LED's	Green & Red
Audible Tone	Internal & External Buzzer
Colour	Charcoal
Certifications	FCC,CE, C-tick (compliant)
IP Rating	IP65
Warranty	5 years
Mounting Option	Universal Mounting Plate (BM-UBP)

## BM680 – Proximity

Reads HID 26 – 40 bit formats

Card Type	Proximity 125KHz ISO14443
Card Options	125KHz proximity card, fobs, or clamshells
Read & Write	Read only
RF Encryption	None
Output protocol	Wiegand
Output formats	26-37,40 bit (HID compatible)
Power requirements	7-16vDC 100ma MAX
Typical Read Range	65 – 80mm (2.55” – 3.1”)
Operating Temperature	-20deg C to +60deg C
Relative Humidity	90% max, non-condensing
Reader Dimensions	84.55mm(H) x 42.95mm(W) x20.7mm(D)
Status LED's	Green & Red
Audible Tone	Internal & External Buzzer
Colour	Charcoal
Certifications	FCC,CE, C-tick (compliant)
IP Rating	IP65
Warranty	5 years
Mounting Option	Universal Mounting Plate (BM-UBP)



Omnipass is a secure, highly structured, card management service that provides the end user with a 'peace of mind' single credential solution for all applications globally.

The customer retains ownership of their user-selected, unique card format irrespective of the access control system (ACS) manufacturer or the system integrator.

All customer data is securely registered and maintained by BQT Solutions.

Ask your Distributor about the Omnipass advantage!

## BM684 – Mifare Classic/ DESfire

Reads BQT Sector Diversified Keys/Application

Card Type	Mifare/DESfire/DESfire EV1 13.5MHz ISO14443 A/B
Card Options	Mifare/DESfire/DESfire EV1 1Kb or 4Kb Cards, Fobs, or Clamshells
Read & Write	Yes
RF Encryption	Crypto1/DESfire/DESfire EV1
Output protocol	Wiegand
Output formats	26,27,34 and 37 bit
Power requirements	7-16vDC 70ma MAX
Typical Read Range	20 – 40mm (0.8” – 1.6”)
Operating Temperature	-25deg C to +65deg C
Relative Humidity	90% max, non-condensing
Reader Dimensions	84.55mm(H) x 42.95mm(W) x20.7mm(D)
Status LED's	Green & Red
Audible Tone	Internal & External Buzzer
Colour	Charcoal
Certifications	FCC,CE, C-tick (compliant)
IP Rating	IP65
Warranty	5 years
Mounting Option	Universal Mounting Plate (BM-UBP)

## BM686 – Mifare Classic/ DESfire

Reads Customised Formats/ Multi-Application

Card Type	Mifare/DESfire/DESfire EV1 13.5MHz ISO14443 A/B
Card Options	Mifare/DESfire/DESfire EV1 1Kb or 4Kb Cards, Fobs, or Clamshells
Read & Write	Yes
RF Encryption	Same as BM684 plus 3DES
Output protocol	Wiegand/RS485
Output formats	Custom Format up to 128 bit
Power requirements	7-16vDC 70ma MAX
Typical Read Range	20 – 40mm (0.8” – 1.6”)
Operating Temperature	-25deg C to +65deg C
Relative Humidity	90% max, non-condensing
Reader Dimensions	84.55mm(H) x 42.95mm(W) x20.7mm(D)
Status LED's	Green & Red
Audible Tone	Internal & External Buzzer
Colour	Charcoal
Certifications	FCC,CE, C-tick (compliant)
IP Rating	IP65
Warranty	5 years
Mounting Option	Universal Mounting Plate (BM-UBP)