



# series

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!

- > **DF815**
- > **BT815**
- > **miP5**
- > **CSN5**

The miPASS 5 Series range offers superior security and flexibility through its customisation and encryption options to suit all access control requirements, delivering unrivalled security from the reader to the card.

The 5 Series is designed with a simple installation in mind. It can be installed on flush surfaces and mounted on most international standard gang boxes with the addition of backing plates to meet these standards. The reader is a low-profile, extremely robust and engineered unit built to withstand the harshest of environments.

Ideal for new site installations or security upgrades of existing systems using 'Swipe' or 'Prox' (125 KHz) card and reader technologies, it offers a cost effective enhancement to your current access control system.

Available in four different models, the miPASS 5 Series range caters for all security requirements large or small, whether your projects are price or functionality driven.

# miPASS 5 series models

## DF815

### DESFire Technology

The DF815 DESFire reader offers 3DES encryption between a DESFire card and reader, delivering the most secure card transaction process available. It can be configured with various output protocols and programmed with customised encryption keys unique to each customer. The DESFire reader meets the TWIC standard for access applications in the USA.

## BT815

### Mifare Technology

The BT815 Mifare reader can be configured with various output protocols and programmed with customised encryption keys unique to each customer. Also upgradeable with further security enhancements when requirements increase.

## miP5

### SPEK Technology

The miP5 reader features miPASS SPEK (Secure Proximity Encryption Keys) for secure transmission between a miPASS card and the reader. A secure, cost effective solution or upgrade for any system. Available in Wiegand output protocol only.

## CSN5

### Card Serial Number

The CSN5 reader will read any Mifare Smart Card's unique serial number and is available in 32 or 34 bit outputs.

## miPASS 5 series specifications

model code	DF815		BT815				miP5	CSN5
	DF815-D	DF815-DG	BT815-W	BT815-WG	BT815-D	BT815-DG	miP5	CSN5
card type	DESFire 13.56MHz - ISO14443A		Mifare 13.56MHz - ISO14443A				Mifare 13.56MHz - ISO14443A	Mifare 13.56MHz - ISO14443A
miPASS card options	4KB		1KB & 4KB - other sizes & Keytag optional.				miP Card 1KB & 4KB - Keytag optional	Mifare 1KB & 4KB
card read type	Application & File		Sector				Sector	Card serial number
reader/card keys	<ul style="list-style-type: none"> <li>• Customisable</li> <li>• Site specific</li> </ul>		<ul style="list-style-type: none"> <li>• Customisable</li> <li>• Site specific</li> </ul>				miPASS SPEK	N/A
read & write	✓	✓	✓	✓	✓	✓	✓	Read only
set-up card function	✗	✓	✗	✓	✗	✓	✗	✗
firmware upgradable	✓	✓	✗	✗	✓	✓	✗	✗
hsm compatible	✓	✓	✗	✗	✓	✓	✗	✗
output protocol	<ul style="list-style-type: none"> <li>• Wiegand 26 – 199 bit</li> <li>• RS485</li> </ul>		<ul style="list-style-type: none"> <li>• Wiegand 26 – 199 bit</li> </ul>		<ul style="list-style-type: none"> <li>• Wiegand 26 – 199 bit</li> <li>• RS485</li> </ul>		Wiegand 26-199 bit	Wiegand: 32bit FWD, 32bit REV 34bit FWD, 34bit REV
encryption	<ul style="list-style-type: none"> <li>• 3DES format between reader and card</li> <li>• AES 128 bit output from reader via RS485</li> </ul>		<ul style="list-style-type: none"> <li>• Mifare encryption between reader and card</li> </ul>		<ul style="list-style-type: none"> <li>• Mifare encryption between reader and card</li> <li>• AES 128 bit output from reader via RS485</li> </ul>		Mifare standard format, utilising SPEK from reader to card	N/A
current consumption – normal	150mA		105mA	150mA			105mA	105mA
– activated	170mA		120mA	170mA			120mA	120mA
card read range	20-40mm		20-60mm				20-60mm	20-60mm
power requirement	12Vdc/5Vdc							
tamper enabled	YES							
operating temperature	-25°C to + 65°C (-13°F to 149°F)							
relative humidity	90% max, operating non-condensing							
reader dimensions	90mm (L) x 90mm (W) x 27mm (D) (3.54" x 3.54" x 1.06")							
status LED's	Green & Red							
audible tone	Internal & external Buzzer control							
colour finish	Charcoal & Ivory							
certifications	FCC, CE, C-Tick							
IP Rating	IP67 – Internal or external applications							

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](http://www.bqtsolutions.com) or contact us at one of our global locations.**

**Australia & Asia Pacific**  
Level 4  
65 Epping Road  
North Ryde NSW 2113 Australia  
Phone: +61 (0)2 8817 2800  
Fax: +61 (0)2 8817 2811  
Email: [sales@bqtsolutions.com](mailto:sales@bqtsolutions.com)

**United Kingdom & EMEA**  
Global House  
1 Ashley Avenue, Epsom  
Surrey KT 18 5AD United Kingdom  
Phone: +44 (0)20 8823 9350  
Fax: +44 (0)20 8823 9001  
Email: [info@bqtsolutions.co.uk](mailto:info@bqtsolutions.co.uk)

**America**  
30021 Tomas Street, Suite 300  
Rancho Santa Margarita CA 92688  
United States of America  
Phone: +1 877 278 2637 (ext 42)  
Fax: +1 877 278 2637  
Email: [salesusa@bqtsolutions.com](mailto:salesusa@bqtsolutions.com)

**China**  
Suite 1602, No.75, ShengDa Garden  
2518 LongHua Road, XuHui District  
Shanghai, P.R.China  
Phone: +86 21 5407 3638  
Fax: +86 21 5407 3738  
Email: [china@bqtsolutions.com](mailto:china@bqtsolutions.com)