



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!

- > **DF900**
- > **BT900**
- > **miP9**
- > **CSN9**

The miPASS 9 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 9 Series is stylish as well as functional with its slimline shape, allowing easy installation on door architraves or mullions where larger readers will not fit. It can be mounted directly to a metal door frame with no diverse effect to the reader's operation. Installation is also suited for flush surfaces and mounting 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 9 Series range caters for all security requirements large or small, whether your projects are price or functionality driven.

miPASS 9 series models

DF900

DESFire Technology

The DF900 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.

BT900

Mifare Technology

The BT900 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.

miP9

SPEK Technology

The miP9 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.

CSN9

Card Serial Number

The CSN9 reader will read any Mifare Smart Card's unique serial number and is available in 32 or 34 bit outputs.

miPASS 9 series specifications

	DF900	BT900	miP9	CSN9
sector or serial	Container/Sector	Sector	Sector	Serial
card type	DESFire 13.56MHz ISO14443A	Mifare 13.56MHz ISO14443A	Mifare 13.56MHz ISO14443A	Mifare 13.56MHz ISO14443A
miPASS card options	4KB (other sizes & KeyTag optional)	1KB & 4KB (other sizes & KeyTag optional)	1KB & 4KB (KeyTag optional)	Any Mifare card
sector keys	<ul style="list-style-type: none"> • Customisable • Site specific 	<ul style="list-style-type: none"> • Customisable • Site specific 	miPASS Secure Proximity Encryption Keys (SPEK)	N/A
tamper switch	Available on request	Available on request	N/A	N/A
read & write	YES	YES	YES	Read only
encryption	<ul style="list-style-type: none"> • 3DES format from reader to card • AES 128/256 bit from reader to controller via RS485. (HSM unit required) 	<ul style="list-style-type: none"> • Mifare standard format from reader to card • AES 128/256 bit from reader to controller via RS485. (HSM unit required) 	Mifare standard format, utilising SPEK from reader to card	N/A
output protocol	<ul style="list-style-type: none"> • Wiegand 26 – 199 bit • RS485 • Or custom configurations 	<ul style="list-style-type: none"> • Wiegand 26 – 199 bit • RS485 • Or custom configurations 	Wiegand 26 bit only	<ul style="list-style-type: none"> • Wiegand 32 or 34 bit • Custom bit length available
power requirement	12Vdc			
current consumption – normal – activated	120mA 140mA			
card read range	20-60mm (0.8" - 2.4") (typically)			
operating temperature	-25°C to + 65°C (-13°F to 149°F)			
relative humidity	90% max, operating non-condensing			
reader dimensions	140mm (L) x 45mm (W) x 32mm (D) (5.51" x 1.77" x 1.26")			
status LED's	Green & Red			
audible tone	Internal & external Buzzer control			
colour finish	Two toned – Silver & Charcoal			
certifications	FCC, CE, C-Tick			
IP Rating	IP67 - Internal or external applications			
warranty	5 years			

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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