

high security module

The High Security Module, in addition to BQT's miPASS suite of Mifare and Biometric solutions, is the complete answer for secure access control.

Most access control systems rely on the transfer of information through unsecured Wiegand lines to an access control panel from a front end reader, such as a smart card reader, biometric unit or a PIN (Personal Identification Number) terminal. Although the wiring itself is vulnerable to snooping and signal manipulation, the user's sensitive data can be protected with digital encryption.

BQT has developed the High Security Module (HSM) as an addition to our range of Biometric and Mifare access solutions, which through encryption secures the transmission of data between BQT's miPASS readers and any standard security access control panel.

The connection between a miPASS reader and an HSM is via RS485 communication, thus allowing the card readers to be located up to 1.2km (4000 ft) from the control panel, providing greater flexibility and a reduction in installation cost.

Encrypted communication travels between the miPASS reader and the decryption module, thus ensuring an absolute secure information path that cannot be compromised whether it be wall enclosed or a remote site such as an access gate. The HSM unit can be installed inside the control panel or in a secured area.

How it works

Firstly, the miPASS reader retrieves the card data via contactless technologies such as Mifare, DESFire, or FIPS201 PIV.

Next, it packages the data by using a choice of approved encryption methods such as 3DES, AES Rijndael, or Skipjack to the HSM. The secure package is then sent to the HSM using a unique session key that is never repeated.

Finally, the HSM module decrypts the data quickly and forwards it to the controller.







miPASS HSM specifications

	Specifications
power requirement	12Vdc
current consumption	60ma
reader interface	Power: 12Vdc, GND RS485: 485A, 485B
control panel interface	Power: Wiegand Wiegand: W0, W1 Notifications: LED, BUZ
relay	Dry contact
operating temperature	-10°C to +55°C (14°F to 131°F)
relative humidity	90% max, operating non-condensing
dimensions	65mm x 20mm x 25mm (2.56" x 0.79" x 0.98")
encryption	• 3DES • AES 128 bit • SkipJack • Rijndael • Custom configurations
IP rating	IP67
colour	Charcoal

* Specifications subject to change without notice

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.

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@bgtsolutions.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

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 China

Suite 1602, No.75, ShengDa Garden 2518 LongHua Road, XuHui District Shanghai, 200232 P.R.China Phone: +86 21 5407 3638 Fax: +86 21 5407 3738 Email: china@bqtsolutions.com