

RFID FLUSH READER BT512



Product Overview

The BT512 is a flush MIFARE® smart card reader made to suit installations that require a very discrete, and tamper resistant solution. It is extremely low profile and offers a very unobtrusive architectural solution while still being able to withstand the harshest of environments. The BT512 is available in a range of secure options right up to Military grade technology and encryption and provides a flexible solution through customisation to suit all access control requirements. It can be purchased pre-configured or customised to suit any requirement and are able to integrate seamlessly with existing systems and facilitate migrating to higher security technology.

Why BQT Solutions

BQT Solutions is a specialist in the development, manufacture and supply of high quality, high security card and biometric readers, electromechanical locks and related electronic security products. Providing high security solutions to verticals such as Airports, Hospitals, Prisons and Government for over 35 years.

Innovating today for a more secure tomorrow

Product Benefits

Benefit One

Designed to be hidden, the non-obstructive design allows the BT512 to fit flush against the wall for a seamless look without compromising the structural integrity, durability, or security of your access control system. The BT512 has been engineered to maintain its integrity and functionality, without the traditional bulky look of an access control reader.

Benefit Two

Offering pre-configured and customised operations, the BT512 can be set up to accept your custom key, data formats and is designed to work with your pre-existing security configurations.

Benefit Three

The BT512 offers installation flexibility and integration with many existing access panels and can be customised to suit a proprietary system. When you receive your reader, all you will have to do is connect them in to secure your site with your existing access control system.

PRODUCT FEATURES

Compatibility

Available with MIFARE Classic and DESFire proximity cards for contactless smart card technology. The BQT Solution's suite of MIFARE Classic & DESFire® readers and smart cards, opens the gateway to multiple security applications, including access control, biometric authentication, IT security, e-purse, e-vending, time, and attendance to ensure your security needs are being met.

Robust Design

Its minimalist design ensures the reader is well protect with only the front plate being exposed. The BT512 is able to withstand tampering and maintain integrity during a security threat or incident and will continue to operate and secure access even after being damaged.

Low Power

The BT512 uses power when needed but goes into a standby mode when not in use. Low power paired with high-security access control makes the BT512 reader a preferred product choice for many industry leaders by offering an eco-friendly and economical, yet secure solution.

Tamper Monitor

Security threats aren't always captured on camera and pose a real risk to unauthorised access. We know the peace of mind many organisations need when it comes to alerting them to security threats and the BT512 offers a tamper monitor that will alert the security team if there has been a breach attempt at one of the readers.

Secure Encryption

Working with your current system, the BT512 offers flexible access control, with the option to use Wiegand, OSDP or Encrypted RS485 access data output. The BT512 additional benefits of being cost-effective and easy to wire and deploy across your sites where different levels of encryption are needed for secure access control.

PRODUCT APPLICATIONS

Any sites where physically tampering of the access devise is a threat or where architectural requirements are for a minimal look. Often used in correctional facilities and hospitals because of their discrete design, the BT512 is available in several technology levels for all security requirements.

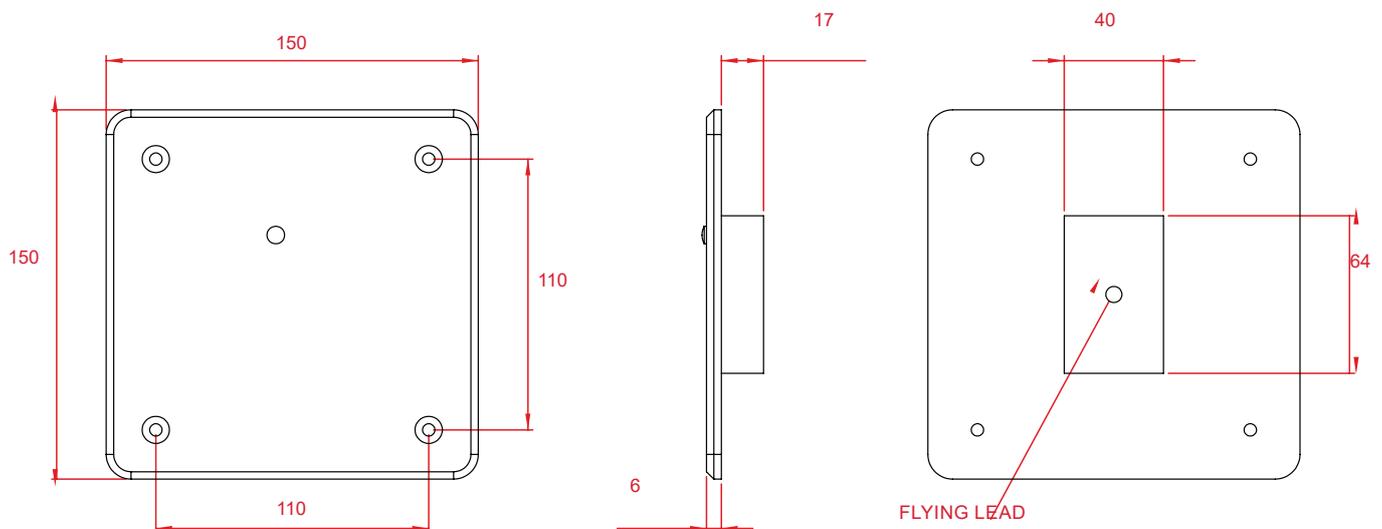


SPECIFICATIONS

- **Voltage at Reader**
8VDC to 16VDC
- **Current Usage**
Average: 60mA
Peak: 160mA
- **Card Read Range**
20mm to 40mm (0.8" to 1.6")
- **Operating Temperature**
-25°C to +65°C (-13°F to +149°F)
- **Relative Humidity (% max)**
90%, operating non condensing
- **Materials**
Reader Plate: 6mm Acrylic
Colour Finish: Black
- **Feedback**
Green/Red LED, with external control
Buzzer, with external control
Tamper detection, optional output
- **Credential Options**
ISO14443A, MIFARE Classic® 1K/4K, MIFARE Plus® X 2K/4K, MIFARE® DESFire® EV1 4K/8K, MIFARE® DESFire® EV2 4K/8K, MIFARE® DESFire® EV3 4K/8K
- **Compliance and Certification**
FCC, CE, UKCA, RCM, RoHS, IP65
- **Reader Variants**
BT512 -1 – CSN Reader
BT512 -2 – miPASS2 Reader
BT512 -3 – Custom MIFARE Classic Reader
BT512 -4 – miPASS3 Reader
BT512 -5 – miPASS4 Reader
BT512 -6 – Custom MIFARE DESFire Reader

DIAGRAM - BT512

Diagrams are not to scale. Measurements are in millimeters (mm).



MODEL COMPARISON

NAME	APPLICATION	OUTPUT PROTOCOLS	OPERATING TEMPERATURE	READER DIMENSIONS	POWER USAGE
BM680	Sites that are cost sensitive yet still require high security	Wiegand, OSDP, RS485	-25°C to +65°C (-13°F to +149°F)	85mm X 43mm X 22mm (3.35" X 1.69" X 0.87")	8VDC to 16VDC, 60mA (Average), 160mA (Peak)
BT930	Existing sites looking to upgrade the technology within the same architrave footprint	Wiegand, OSDP, RS485	-25°C to +65°C (-13°F to +149°F)	140mm X 47mm X 24mm (5.51" X 1.85" X 0.94")	8VDC to 16VDC, 60mA (Average), 160mA (Peak)
BT950	Installations that require a robust standard form architrave reader	Wiegand, OSDP, RS485	-25°C to +65°C (-13°F to +149°F)	119mm X 43mm X 23mm (4.69" X 1.69" X 0.91")	8VDC to 16VDC, 80mA (Average), 160mA (Peak)
BT951	Any site wanting to migrate from 125KHz (FSK) to MIFARE security	Wiegand, OSDP, RS485	-25°C to +65°C (-13°F to +149°F)	119mm X 43mm X 23mm (4.69" X 1.69" X 0.91")	8VDC to 16VDC, 120mA (Average), 300mA (Peak)
BT953	Any site wanting to migrate from 125KHz (PSK) to MIFARE security	Wiegand, OSDP, RS485	-25°C to +65°C (-13°F to +149°F)	119mm X 43mm X 23mm (0.91" X 4.69" X 1.69")	8VDC to 16VDC, 120mA (Average), 300mA (Peak)
BT815	Sites needing a standard form gang box reader	Wiegand, OSDP, RS485	-25°C to +65°C (-13°F to +149°F)	90mm X 90mm X 20mm (3.54" X 3.54" X 0.79")	8VDC to 16VDC, 60mA (Average), 160mA (Peak)
BT817	Sites requiring dual factor authentication or cardless access	Wiegand, OSDP, RS486	-25°C to +65°C (-13°F to +149°F)	90mm X 90mm X 28mm (3.54" X 3.54" X 1.10")	8VDC to 16VDC, 90mA (Average), 190mA (Peak)
BT853	Sites requiring dual factor authentication or cardless access and on device feedback	Wiegand, OSDP, RS487	-25°C to +65°C (-13°F to +149°F)	157mm X 97mm X 50mm (6.18" X 3.82" X 1.97")	8VDC to 16VDC, 90mA (Average), 190mA (Peak)
BT51X	Installations requiring a discrete yet secure device, ideal for Hospitals and Prisons	Wiegand, OSDP, RS488	-25°C to +65°C (-13°F to +149°F)	Variable, to suit	8VDC to 16VDC, 180mA (Average), 240mA (Peak)

WARRANTY

Unless specified otherwise, the Company warrants to the Customer that 'BQT Solutions Branded Products' (excluding third party products and software) are covered by a return to base warranty on defects in materials and workmanship affecting normal use for a period of the Warranty offered under the Standard Terms and Conditions of Sale from BQT invoice date ('Standard Warranty')

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