

RFID FLUSH READER BT510



Product Overview

The BT510 is a flush MIFARE® smart card reader made to suit a standard Australasian gang box. It is extremely low profile and offers a very unobtrusive architectural solution while still being able to withstand the harshest of environments. The BT510 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 BT510 to fit flush against the wall for a seamless look without compromising the structural integrity, durability, or security of your access control system. The BT510 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 BT510 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 BT510 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 BT510 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 BT510 uses power when needed but goes into a standby mode when not in use. Low power paired with high-security access control makes the BT510 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 BT510 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 BT510 offers flexible access control, with the option to use Wiegand, OSDP or Encrypted RS485 access data output. The BT510 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

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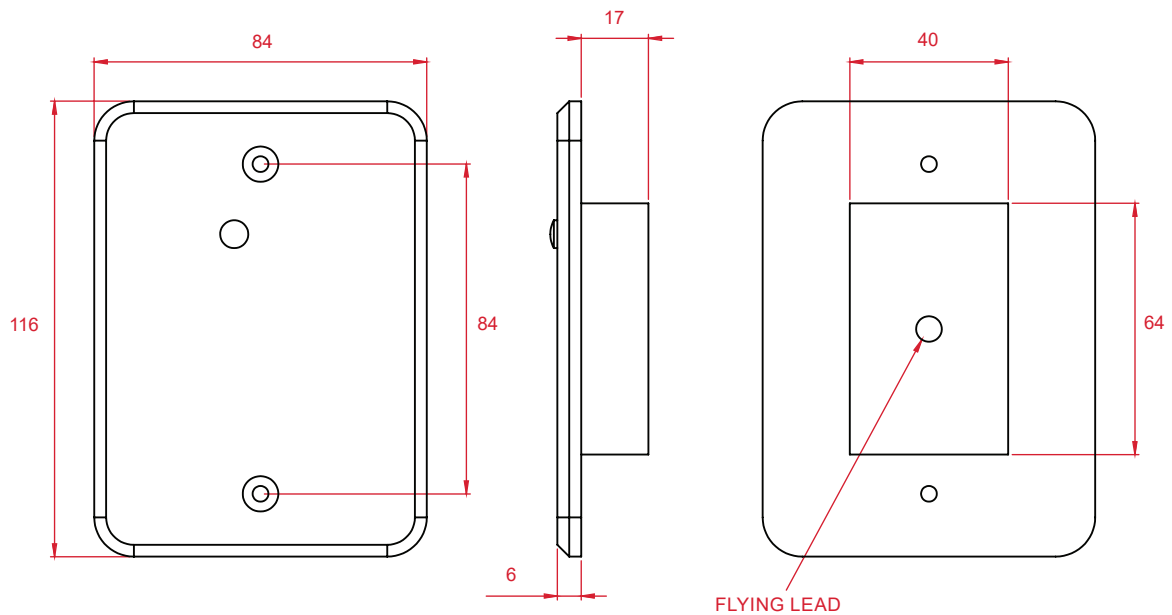


SPECIFICATIONS

- **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**
BT510 -1 – CSN Reader
BT510 -2 – miPASS2 Reader
BT510 -3 – Custom MIFARE
Classic Reader
BT510 -4 – miPASS3 Reader
BT510 -5 – miPASS4 Reader
BT510 -6 – Custom MIFARE
DESFire Reader

DIAGRAM - BT510

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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