

# Unlimited Applications

"From its base configuration the BT843 is powerful enough to take on many different roles and can accept future firmware upgrades providing zero hardware redundancy."

The BT843 is a Mifare® contactless smart card reader/encoder and combines the hardware to meet various application needs.

Typical reader configurations can include:

## BT843W

- ▶ Reader & PIN with wiegand output and pre-defined LCD text display for "Present card", "Enter PIN", "Access granted" and "Access denied - Please contact reception"

## BT843R

- ▶ Reader & PIN with the LCD being controlled via a 3rd party controller over an RS485 or RS232 bus.
- ▶ Door controller to hold card access levels authorities, lock control, exit and door status input.
- ▶ Can be used in a Standalone mode

Various reader outputs can be provided to suit the specific application required, i.e.

- *Wiegand 26 to 40 bit*
- *Magstripe*
- *Clock & Data*
- *Standalone*
- *RS232*
- *RS485*
- *Custom formats to order*

When used in any mode other than Wiegand, the reader is also an encoder, writing data to the Mifare® card either from its own programmed memory, or from a PC or other such device.



Contactless Mifare® technology

Programmable as a MAD, Sector or Serial reader

Single piece design

Wiegand, Magstripe, Clock & Data, Standalone, RS232, RS485 & custom configuration outputs

512Kb onboard memory

2 x 16 character LCD display

12 button keypad

## Specifications

Reader output	Wiegand 26 to 40 bit, Magstripe, Clock & Data, Standalone, RS232, RS485 & Custom
Power requirement	9 - 14Vdc
Normal current consumption	120ma
Activated current consumption	140ma
Read range	40mm (1.58") (typically)
Operating temperature	-10°C to + 55°C (14°F to 131°F)
Relative humidity	90% max, operating non-condensing
Reader dimensions	135mm x 161mm x 34mm (5.32" x 6.34" x 1.34")
Status LED's	LED's = Amber, Green & Red; LCD = 2 x 16 Characters
Audible Tone	Tone on matching software key and wired external buzzer control
Colour Finish	Grey
IP Rating	IP42
Part number	Wiegand = BT843W (specify 26 to 40 bit) Magstripe = BT843MS (specify format) Clock & Data = BT843CD (specify format) RS232 = BT843S RS485 = BT843R

Specifications subject to change without notice.

### Typical wiring & reader configuration options



BT843

12Vdc+  
Ground  
Wiegand 0  
Wiegand 1  
RS232 IN  
RS232 OUT  
Ground  
RS485A  
RS485B  
Relay 1 N/O  
Relay 1 COM  
Relay 1 N/C  
Relay 2 N/O  
Relay 2 COM  
Relay 2 N/C  
Relay 3 N/O  
Relay 3 COM  
Relay 3 N/C  
Input 1  
Input 2  
Input 3  
Input 4  
Input 5  
Input 6  
Input 7  
Input 8  
Ground x 2  
Open Collector 1  
Open Collector 2

### High security combined Biometric fingerprint and card reader

Using the same wiring as conventional BT843 readers for increased security.



BT910

Also available

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