



reddot design award

# AY-Bx663

MIFARE® Swipe Fingerprint  
(MOC) Reader Family



AY-B4663



AY-B1663



AY-B3663

**THE MIFARE FINGERPRINT MOC FAMILY USES A SWIPE BIOMETRIC SENSOR TO INSTANTLY VERIFY FINGERPRINT DATA WITH UP TO TWO BIOMETRIC TEMPLATES STORED IN THE MIFARE CARD, IDEAL FOR HIGHLY SECURED FACILITIES AS WELL AS OTHER FACILITIES THAT WISH TO HEIGHTEN THEIR SECURITY LEVEL. THE READERS ARE COMPATIBLE WITH ALMOST ANY ACCESS CONTROL SYSTEM.**

## GENERAL DESCRIPTION

The MIFARE Fingerprint readers are small, elegant, accurate, swift, and cost effective; they provide a high level of security and preserve users' privacy. The reader scans biometric data stored in a specific protected sector within a MIFARE smartcard, it then compares the data with a swiped finger and, once if verified, sends the card ID to a connected controller. This reader is compatible with most common Wiegand and Clock & Data formats, and can replace existing readers to save installation and migration costs.

Configuration and user cards are created using Rosslare's Smart Card programmer (CP-R25) and AS-B01 PC software application.

These products have the capability of being customized for most major projects.

## MAIN FEATURES

- Advanced, secure, multi-application functionality for intelligent installations
- Unlimited number of users
- Unique and reliable Match-On-Card technology
- Designed for indoor use (swipe sensor protection required for outdoor use)

- Easy to deploy in the field with the configuration card (Master card) for secure sector reading of data from the sectors
- Configurable multi output format, supports Wiegand 26-bit format and many more
- Compatible with CP-R25 USB Desktop Card Programmer and fingerprint enrollment
- PC software for Master and User Cards configuration (AS-B01)

## ADVANCED FEATURES

- Reads MIFARE ISO14443 Type A, Standard cards
- Optical tamper sensor for case and wall tamper detection
- Fully compatible with MIFARE 1K and 4K credentials:
  - AT-T512 (1K ISO card)
  - AT-T513 (4K ISO card)
- Configuration card allows setting of:
  - Format
  - Input Control
  - Lockout parameters
  - Secret keys (KeyA)

# SPECIFICATIONS

## ELECTRICAL SPECIFICATIONS

■ Operating voltage range	6-16 V DC
■ Standby Input current	85 mA
■ Maximum Input Current	513 mA
■ Tamper Output	Open collector, active low, max. sink current 32 mA

## SENSOR SPECIFICATIONS

■ Array size	192 x 4 pixels
■ Pixel pitch	50 microns
■ Image resolution	508 DPI

## OPERATIONAL SPECIFICATIONS

■ Inputs	Programmable LEDs / Buzzer control Input, N.O, Dry Contact
■ Indicators	Three blue LED indicators
■ Output Format	Wiegand 26-bit, Wiegand 32-bit, Wiegand 34-bit, Wiegand 40-bit, and Clock & Data
■ Built-In proximity Reader	Operating frequency: 13.56MHz
■ Compatible Cards	MIFARE Compatible ISO-14443A
■ Max. Proximity read range	40mm (1.57 inch)

## ENVIRONMENTAL SPECIFICATIONS

■ Operating temperature	-25°C to 60°C (-13°F to 140° F)
■ Operating humidity	5% to 90% (non-condensing)

## MECHANICAL SPECIFICATIONS

■ Dimensions (H x W x D)	AY-B1663: 70.1 x 54.1 x 39.1 mm (2.76 x 2.13 x 1.54 inch) AY-B3663: 84.1 x 54.1 x 20.9 mm (3.31 x 2.13 x 0.82 inch) AY-B4663: 85.4 x 50.6 x 27 mm (3.36 x 1.99 x 1.06 inch)
■ Weight	AY-B1663: 81.5g (0.18 lbs) AY-B3663: 106g (0.23 lbs) AY-B4663: 94.5g (0.21lbs)

## SYSTEM COMPONENTS

The MIFARE Fingerprint (MOC) Readers are compatible with Rosslare's CP-R25 USB Desktop card programmer. The Readers are compatible with Rosslare's controllers (e.g. AC-225, AC-215 and AC-525) as well as various third party systems.

## PRODUCT WARRANTY

2-year Limited Product Warranty

## ABOUT ROSSLARE SECURITY

Rosslare Security Products, a division of Rosslare Enterprises Ltd. manufactures high-quality security products since 1980. The company's three main lines: Access Control, Intrusion Detection and Guard Patrol, together with a growing product range have transformed Rosslare Security into a major worldwide force in security. Rosslare holds itself to the highest standards of customer service and manufacturing (ISO 9001:2008, ISO 14001:2004, ISO 13485:2003). The company complies with the EU Directive 2002/95/EC on Restriction of Hazardous Substances (RoHS).

Visit our web site: [www.rosslaresecurity.com](http://www.rosslaresecurity.com)

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5505-0055101-00  
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