

# AY-B9150BT

Professional Fingerprint Biometrics with  
MIFARE® RFID and Rosslare BLE-ID™ Reader



Rosslare BLE-ID™  
Android & iOS Credential

MIFARE  
Card Reader

20,000 Templates  
Encrypted Memory

AY-B9150BT

This professional-grade fingerprint reader has a high-speed optical sensor with a capacity of 20,000 templates featuring powerful algorithms with liveness check and encrypted data storage. The AY-B9150BT has a built-in 13.56 MHz MIFARE RFID card reader and features an integrated Rosslare BLE-ID™ reader. It has RS-485, TCP/IP, and Wiegand 26- or 34-Bit connectivity, and can be used with almost any third-party access control system.

## GENERAL DESCRIPTION

The AY-B9150BT networked fingerprint reader has a built-in MIFARE (13.56 MHz) RFID card reader with a capacity for 20,000 fingerprint credential templates with liveness check, and high-speed operation. A smartphone interface is built-in with a Bluetooth 4.0 system to read Rosslare BLE-ID™ credentials and work with Rosslare BLE-Admin™ configuration apps for iOS and Android. Up to 2000 readers may be managed by our RosslareBio9000 Client/Server management suite for Windows OS. It supports up to 16 PC clients for enrollment and template distribution, which is ideal for networked fingerprint system operation and deployment. This product features the latest design and engineering to achieve a best-in-class solution when you need "Security that Lasts".

## MAIN FEATURES

- Advanced optical sensor with fingerprint liveness check with algorithms to prevent spoofing
- Capacity of 20,000 templates 1:N and support for 1:1 Matching, and encrypted memory
- Built-in output relay for controlling a local device

- High performance CPU and memory for high speed validation (searches 4000 1:N in less than 1 second)
- Built-in TCP/IP, RS-485, and Wiegand output connectivity
- Non-volatile event log of up to 100,000 entries
- IP65 rated for indoor and outdoor use
- Support for Rosslare BLE-ID™ smartphone credentials (Both iOS and Android)
- Wide thermal operating range (-20°C to 60°C)
- Built-in tamper and buzzer
- Modern design that blends into almost any architectural challenge

## RosslareBio9000 Client/Server Software

- Easy-to-install and operate server for Windows OS that enables managing user data and template distribution. Manages 100,000 users across networks of up to 2000 readers.
- Supports up to 16 remote client enrollment stations for enterprise applications
- Available in a large variety of languages

# SPECIFICATIONS

## Power Supply Requirements

■ Input Voltage	Regulated DC12V~24V ± 5% Adaptor
■ Input Current	DC12V Input : Max 300mA ± 10%

## Fingerprint Credentials Imaging

■ Technology	Optical
■ Image Resolution	500 DPI
■ Scan Area	15 x 18 mm
■ Liveness Detection	Yes – Detects and rejects fake fingerprints (silicon, rubber, paper, etc.)
■ Capacity	20,000 templates (up to 10,000 users) Time: 1:N < 1 sec (4,000 templates)

## RFID Credentials

■ MIFARE Reader	Built-in RFID card reader for MIFARE (13.56 MHz)
■ Bluetooth Credentials	Supports Bluetooth 4.0 Rosslare BLE-ID™ credential for iOS and Android
■ Bluetooth Admin	Supports Bluetooth 4.0 BLE-Admin™ configuration apps for iOS and Android

## Environmental Range

■ Ingress Protection	IP65
■ Temperature Range	-20°C to 60°C
■ Humidity	Up to 90% RH

## Communication & Indicators

■ CPU	ATMEL 400 MHz
■ Memory	64MB DRAM, 256MB flash
■ Communication	Wiegand (26-/34-Bit), RS-485, TCP/IP (10/100 Mbps), Bluetooth 4.0 (BLE)
■ LED-Indicator / Buzzer	2 x RGB LED and one internal Buzzer for Audible indication

## Inputs & Outputs

■ Relay Output	1 x Form C Relay (N.O. / N.C.) rated 1A @ 30V for Lock Strike.
■ Inputs	3 x inputs ( 2 door monitor, 1 exit )

## PHYSICAL SPECIFICATIONS

■ Dimensions	58 x 188 x 49.8 mm
■ Weight	700 g (1.54 lbs)

## Standard Compliance

■ Interoperability	ISO 19794-2, ANSI378, Template Support
■ Device Certifications	CE, FCC

## ABOUT ROSSLARE SECURITY

Rosslare Security Products manufactures and markets high-quality security products via its worldwide offices and channel partners. Since 1980, Rosslare has offered high-quality systems for enterprise, small business, and residential applications. With Rosslare, you receive the best of all worlds: world-class product engineering and design; professional customer service spanning the globe.

[www.rosslaresecurity.com](http://www.rosslaresecurity.com)

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