

Biometrics Fingerprint Terminal

MIFARE® RFID, Rosslare BLE-ID™,
Camera & LCD

AY-B9250BT Datasheet



AY-B9250BT

1. Introduction

The AY-B9250BT terminal has 4 touch keys, a full-color LCD, a pinhole camera, and memory that records photo snapshots based on terminal activity.

The AY-B9250BT is a professional-grade fingerprint terminal with a high-speed optical sensor and a capacity of 20,000 templates. Powerful algorithms provide liveness check and encrypted data storage.

The terminal has a built-in 13.56 MHz RFID card reader and an integrated Rosslare BLE-ID™ mobile application. It supports RS-485, TCP/IP, and Wiegand 26-bit or 34-bit connectivity. The AxTraxPro platform software enables easy terminal setup.

The terminal is also compatible with RosslareBio 9000, the Rosslare standalone management software, which is perfect for interfacing with existing third-party systems.

The AY-B9250BT networked fingerprint terminal has a capacity for 20,000 fingerprint credential templates, liveness check, and high-speed operation with a built-in MHz 13.56MHz RFID card reader.

A built-in Bluetooth 4.0 smartphone interface reads Rosslare BLE-ID™ credentials and works with the Rosslare BLE-Admin™ configuration apps for iOS and Android.

The AxTraxPro platform and the RosslareBio 9000 Client/Server management suite for Windows OS manage up to 2,000 terminals. RosslareBio 9000 supports up to 16 PC clients for enrollment and template distribution, which is ideal for networked fingerprint system operation and deployment.

2. 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 color LCD, camera for transaction capture, 4 touch buttons
- Build in camera for access validation snapshots
- 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 26- or 34-bit 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)
- Built-in tamper and buzzer, output relay for controlling a local device
- Modern design that blends into almost any architectural challenge

3. Software Solution

- **AxTraxPro™**: The Rosslare AxTraxPro platform manages terminals, user data and template distribution. Easy to install and operate.
- **RosslareBio 9000**: Easy-to-install and easy-to-operate server for Windows OS that manages user data and template distribution. Supports up to 16 remote client enrollment stations for enterprise applications.
- Available in many languages.

4. Specifications

Power Supply Requirements	Details
Input Voltage	Regulated adaptor: 12 to 24 VDC ± 5%
Input Current	Maximum: 400 mA, at 12 VDC
Fingerprint Credentials Imaging	Details
Technology	Optical
Image Resolution	500 DPI
Scan Area	15 x 18 mm
Liveness Detection	Yes. Detects and rejects fake fingerprints (silicone, rubber, paper, etc.)
Capacity	20,000 templates (up to 10,000 users) 1:N matching time: less than 1 second (4,000 templates)
RFID Credentials	Details
MIFARE Reader	Built-in 13.56MHz RFID card reader for ISO14443A and ISO14443B (CSN only)
Bluetooth Credentials	Supports Bluetooth 4.0 Rosslare BLE-ID™ credentials for iOS and Android
Bluetooth Admin	Supports Bluetooth 4.0 BLE-Admin™ configuration apps for iOS and Android
Environment	Details
Ingress Protection	IP65
Operating Temperature Range	-20 °C to 60 °C (-4 °F to 140 °F)
Operating Humidity Range	Up to 90% RH

Communication & Indicators	Details
LCD / Camera / Keys	Full-color LCD (128 x 160 px), camera for 10,000 image logs, and 4 touch keys
CPU	ATMEL 400 MHz
Memory	64 MB DRAM, 256 MB flash
Communication	Wiegand (26-bit / 34-bit), RS-485, TCP/IP (10/100 Mbps), Bluetooth 4.0 (BLE)
LED Indicator / Buzzer	2 RGB LEDs and 1 internal buzzer for audible indication
Inputs & Outputs	Details
Relay Output	1 Form C relay (N.O. and N.C.), rated 1 A at 30 V, for lock strike
Inputs	4 inputs (3 door monitor, 1 exit)
Hardware	Details
Dimensions (H x W x D)	58 x 191 x 62 mm (2.28 x 7.52 x 2.44 in.)
Weight	700 g (1.54 lb)
Standard Compliance	Details
Interoperability	ISO 19794-2, ANSI 378 template support
Device Certifications	CE, FCC

5. Product Warranty

2 years.



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