

# AY-B86x0

Outdoor Networked Optical Fingerprint 1:N Reader  
7,000 Templates with RFID Card Reader



13.56 MHz MIFARE or 125 kHz  
EM Contactless Credentials



7000 Fingerprint  
Templates



AY-B8650  
Fingerprint Reader

The AY-B86x0 features a rugged metal case (IK10) and epoxy potting for protection. This fingerprint and 13.56 MHz MIFARE or 125 KHz EM RFID card reader is suitable for indoor and outdoor operation (IP65). AY-B86x0 can enroll 7,000 fingerprint templates (1:N) and enables dual factor authentication (Fingerprint + Card). It can connect via Wiegand to any third-party access control panel and has TCP/IP connectivity for terminal management. The reader can be set up easily using the AxTraxNG Client software. Alternatively, Rosslare's standalone RosslareBio 8000 management software is perfect for interfacing with existing third-party systems.

## GENERAL DESCRIPTION

Securing your assets, people, and property has never been easier. The AY-B86x0 is anti-vandal, featuring a rugged IP65 and IK10 housing with metal reinforcement for outdoor applications.

The reader is networked and can be installed using TCP/IP, and can be configured via AxTraxNG Client or by the standalone client/server software RosslareBio 8000 for Windows OS. The reader outputs Wiegand 26-Bit protocol for access control panel connectivity.

The water and dust sealed optical chamber features a 500 DPI sensor, capable of reading both wet and dry fingers, and a scratch-resistant glass surface that does not wear down with heavy use for a long product lifetime.

The reader can store up to 7,000 templates, and using a high-speed CPU, it can scan a 1:7000 list in less than 1 second. This solution is ideal for any business from one door up to thousands of doors with up to 3500 users per reader (2 fingers per user).

## MAIN FEATURES

- Supported by Rosslare AxTraxNG software
- Small compact design for indoor/outdoor use
- Anti-vandal (IK10)
- Capacity for 7000 templates 1:7000 with high-speed CPU (search time is less than 1 s)
- Combined RFID card and fingerprint for higher security with dual factor applications
- Built-in TCP/IP / RS-485, and Wiegand connectivity
- 100,000 non-volatile event log
- Wide thermal operating range (-20°C to 60°C)
- Built-in buzzer and LED indication

## SOFTWARE SOLUTIONS

- **AxTraxNG:** Easy to install and operate using Rosslare AxTraxNG™ Server for Windows for managing user data and template distribution (many languages)
- **RosslareBio 8000 Management Software:** Standalone management software that supports 8000 biometric reader series for user enrollment, reports, and more and allows third-party interfacing.

# SPECIFICATIONS

## FINGERPRINT IMAGING SYSTEM

■ Technology	Optical (sealed optical chamber, scratch-resistant glass, wet or dry finger)
■ Image Resolution	500 DPI
■ Scan Area	22 x 18 mm (0.9 x 0.7 in.)

## FINGERPRINT TEMPLATES & PROCESSING TIME

■ Capacity	Up to 7,000 biometric templates on reader
■ Time 1:N	< 1 sec

## CONTACTLESS CARD TECHNOLOGY

■ RFID	Built-In 13.56 MHz MIFARE or 125 kHz EM credential reader
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## ENVIRONMENTAL RANGE

■ Environment	IP65 – Indoor or outdoor Installation
■ Anti-Vandal	IK10 – Impact protection metal reinforced housing
■ Temperature	-20° to 60°C (-4°F to 140°F)
■ Humidity	Up to 95% RH

## COMMUNICATION & PERFORMANCE

■ CPU	32 bit ARM core
■ Communication	Wiegand, RS-485, TCP/IP (10/100 Mbps), mini-USB
■ Authentication	Fingerprint Only, Fingerprint + Card, Card Only
■ RFID	Built-in 13.56 MHz MIFARE or 125 kHz EM

## PHYSICAL CHARACTERISTICS

■ Dimensions (W x H x D)	50 x 124 x 34.5 mm (2.0 x 4.9 x 1.4 in.)
■ Net Weight	780 g (27.5 oz.)

## POWER SUPPLY REQUIREMENTS

■ Power	+12 VDC regulated power supply
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## STANDARDS COMPLIANCE

■ Device Certifications	CE, FCC
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## ORDER MODELS

AY-B8620 – With 125 kHz EM RFID card reader  
AY-B8650 – With 13.56 MHz MIFARE RFID card reader

## 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; and the quality and affordability of a vertically integrated and self-owned manufacturing facility. Our expansive product range features much more than access control solutions and guard patrol management systems; we also offer applications software – such as License Plate Recognition, Time & Attendance, and DVR/alarm integration.

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