AY-U920BT

UHF SMART™ Extended Long-Range UHF-RFID and Rosslare BLE-ID™ Reader

Introduction

The AY-U920BT is a unique UHF-RFID credential reader with Rosslare BLE-ID™ credential read capability (for both iOS and Android). Installers can configure a wide range of operating parameters using our Rosslare BLE-Admin™ app. AY-U920BT brings a new level of convenience and productivity. The UHF read mode is ISO18000-6C (EPC GEN2) compliant. The reader is suitable for outdoor use in a wide range of RFID applications such as access control, transport management, vehicle management, car parking, and production process control, and works with almost every third-party controller. Choose Rosslare for professional “Security that lasts”.

Genenral Description

By reading both UHF and Bluetooth (BLE), the reader enables system integrators to develop new solutions, such as multi-factor authentication. The AY-U920BT can be configured to read up to 70 credentials within the read range, and to buffer the output to the host controller in Wiegand 26-Bit to 64-Bit or SIA OSDP.

The reader comes with an installation bracket kit for pole mounting, a 5-m-long 10-wire cable, and a switching power supply. The RS-485 OSDP wiring allows a maximum cable distance of 1000 m (3280 ft), and the Wiegand wiring allows a maximum cable distance to the host controller of 150 m (492 ft).

Main Features

- MD-81 functionality built in
- Wide range of UHF credential form factors available
- UHF read range up to 12 m (39 ft)
- Supports Bluetooth communication for Rosslare BLE-ID™ smartphone apps for Android and iOS
- Can read up to 10 credentials per second or down to 1 credential per second (programmable)
- IP65 for indoor and outdoor use
- RGB LED used for operational indication

Professional Grade Features

- Supports OSDP reader profile according to v2.1.7 standard from Security Industry Association (SIA)
- Supports mobile Admin app for parameter configuration capability

Specifications

ELECTRICAL SPECIFICATIONS	
Operating Voltage Range	9 to 15 VDC (2 A)
Input Current	Standby: 0.2 A max, Read: 1.2 A max
Credential Read Distance*	0.5 to 12 m (1.6 to 39.4 ft) (adjustable) * Read range was tested with Rosslare's LT-UVS-26A-3000 card
BLE-ID Credential Read Distance*	Up to 12 m (39.4 ft) (adjustable) – Line of sight. * Read range was tested with iPhone7 and Huawei P10
Transmission Protocol	Wiegand 26-Bit (Custom: Wiegand 34-Bit up to 64-Bit)
Maximum Cable Distance	150 m (492 ft) with 18" AWG cable
Frequency	• AY-U920BT US: 902–928 MHz (America) RFID • AY-U920BT EU: 865–868 MHz (Europe) RFID • Bluetooth: 2.402-2.480 GHz
Hopping	The reader uses frequency hopping.
Read Sensitivity	Dual polarization read mode
Cards and Tags	Rosslare's LT-UVS-26A-3000 and LT-UVH-26A-7000 • EPC GEN2 (ISO18000-6C) tags • BLE-ID soft credentials
ENVIRONMENTAL SPECIFICATIONS	
Operating Temp. Range	-35°C to 60°C (-31°F to 140°F)
Operating Humidity Range	0 to 95% (non-condensing) Suitable for outdoor use (IP65)
PHYSICAL SPECIFICATIONS	
Dimensions	36.5 x 36.5 x 3.2 cm (14.4 x 14.4 x 1.3 in.)
Weight	2.8 kg (6.2 lb)
SYSTEM COMPONENTS	
The AY-U920BT is compatible with standard access controllers. Packaging Includes AY-U920BT with 5-meter pigtail cable, pole mounting bracket, screw kit, AC/DC 2 amp power supply (gross).	
UHF CREDENTIALS	
Please refer to the UHF credentials datasheet for additional details about the compatible UHF credentials.	
PRODUCT WARRANTY	
2-year limited product warranty	

When installing the UHF credential inside a vehicle, make sure that the vehicle is not RF proof.

For more information regarding support, visit https://support.rosslaresecurity.com/portal/en/home.

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