EBTOOLS EBTOOLS5nrigk0scq

915Mhz USB UHF RFID Reader Instruction Manual

Model: EBTOOLS5nrigk0scq

INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, and maintenance of your EBTOOLS 915Mhz USB UHF RFID Reader. Please read this manual carefully before using the device to ensure optimal performance and longevity.

The EBTOOLS 915Mhz USB UHF RFID Reader is a non-contact electronic tag access control device designed for efficient and sensitive RFID card reading and writing. It features a plug-and-play USB interface and wide compatibility with ISO18000-6C and ISO18000-6B standards.

KEY FEATURES

- **High Sensitivity:** Non-contact card reading with a response speed of less than 0.2 seconds. Maximum reading distance up to 50cm.

- **Buzzer & LED Indicator Light:** Built-in buzzer for audible alerts and a circular LED indicator light for visual status.

- **Plug and Play:** USB interface with approximately 1.4m wire length. No driver installation required for computer connection.

- **Wide Compatibility:** Built-in 2dBi circular polarized antenna. Output power range 12.5dBm-26dBm (software adjustable). Supports ISO18000-6C and ISO18000-6B standards.

PRODUCT OVERVIEW

Figure 1: Top view of the RFID Reader, showing the central reading area and "(HID) DESK READER" label.

Compatible with ISO18000-6C and ISO18000-6B

Non-contact card reading

Plug and play

Sensitive card reading

Figure 2: Side view of the RFID Reader, highlighting the USB port and icons for non-contact reading, plug and play, and sensitive card reading.

Maximum Distance of Reading Label:

0.5m/19.7in(Related to transmission power, antenna type, label type and application environment)

Maximum Distance of Writing Label:

0.2m/7.9in(Depending on transmitting power, antenna type, label type and application environment)

(HID) DESK READER

Figure 3: RFID Reader in operation, demonstrating non-contact card reading with the blue LED indicator illuminated.

Figure 4: The RFID Reader unit alongside its integrated USB cable, ready for connection.

SETUP INSTRUCTIONS

1. **Unpack the Device:** Carefully remove the RFID reader from its packaging.

2. **Connect to Computer:** Locate an available USB port on your computer. Insert the USB connector of the RFID reader into the USB port. The device is designed for plug-and-play operation, so no additional driver installation is typically required.

3. **Power On:** The device will draw power directly from the USB port. The LED indicator light on the reader should illuminate, indicating it is powered on and ready for use.

4. **Software (Optional):** While the device is plug-and-play for basic reading functions, specific applications or software may be required for advanced features like adjusting output power or managing data. Refer to your application's documentation for software requirements.

OPERATING INSTRUCTIONS

Reading RFID Tags/Cards

To read an RFID tag or card:

1. Ensure the RFID reader is connected to your computer and powered on (LED indicator is active).

2. Place the RFID tag or card directly on or very close to the central reading area of the reader. The maximum reading distance is approximately 50cm (19.7 inches), but optimal performance is achieved when the tag is close to the reader.

3. The reader will emit a short beep (from the built-in buzzer) and the LED indicator may change state (e.g., flash or change color) to confirm a successful read.

4. The data from the RFID tag will be transmitted to your connected computer and processed by the relevant software application.

Writing RFID Tags/Cards (If Supported by Software)

The device supports writing to RFID tags. The maximum writing distance is approximately 0.2m (7.9 inches). The ability to write and the specific procedure will depend on the software application you are using. Consult your software's documentation for detailed writing instructions.

Figure 5: Illustration of maximum reading (0.5m) and writing (0.2m) distances, which can vary based on transmission power, antenna type, label type, and environment.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the surface of the reader. Do not use abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.

- **Handling:** Avoid dropping the device or subjecting it to strong impacts.
- **Cable Care:** Do not bend or crimp the USB cable excessively.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Device not recognized by computer / No LED light	USB cable not properly connected or faulty USB port.	Ensure the USB cable is securely plugged into both the reader and the computer. Try a different USB port or a different computer if available.
Cannot read tags / Inconsistent reading	Tag not positioned correctly, tag type incompatibility, or environmental interference.	Ensure the tag is placed directly on the reading area. Verify the tag is compatible with ISO18000-6C or ISO18000-6B standards. Minimize interference from other electronic devices.
No software or instructions for use	The device is plug-and-play for basic functions, but specific applications require separate software.	This product is a hardware device. For specific applications (e.g., inventory management, access control), you will need to integrate it with compatible third-party software. The manufacturer provides the hardware; software solutions are typically separate.
All tags read under the same ID	This behavior is typically due to the software application interpreting the data, not the reader itself.	Consult the documentation for your RFID software. Ensure it is configured to read unique tag identifiers. If using a simple text input application, it might only display a generic output.

SPECIFICATIONS

Attribute	Value
Brand	EBTOOLS
Model Number	EBTOOLS5nrigk0scq
Connectivity Technology	USB
Special Feature	Plug & Play
Color	Default
Compatible Devices	Personal Computer
Item Weight	7.4 ounces
Reading Distance (Max)	0.5m / 19.7in

Attribute	Value
Writing Distance (Max)	0.2m / 7.9in
Antenna	Built-in 2dBi Circularly Polarized Antenna
Output Power Range	12.5dBm-26dBm (Software Adjustable)
Supported Protocols	ISO18000-6C, ISO18000-6B

WARRANTY AND SUPPORT

EBTOOLS provides after-sales service for this product. If you have any questions or encounter issues with your 915Mhz USB UHF RFID Reader, please contact the seller or manufacturer directly. They are committed to replying within 24 hours to ensure your satisfaction.

For further assistance, you may refer to the official EBTOOLS store on Amazon:EBTOOLS Store