eSecuRD-BS User Manual

(V1.0)

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1. Product Overview

eSecuRD-BS Dual Interface Reader supports both ISO 7816 class A, B, C cards and ISO 14443 Type A and Type B cards. It is suitable for application systems with IC card operation and high-security requirements such as finance, social security, telecommunications, electronic payment, network security, e-commerce, identity authentication, and e-government.

2. Product Features

- USB 2.0 full speed interface

- PC/SC and CCID compatible

- Supports ISO 7816 CLASS A, B, C cards and ISO 14443 Type A and Type B cards

- The built-in anti-collision mechanism allows access to only 1 contactless tag at any time

- Short circuit protection

3. Product Specs

Product	eSecuRD-BS

Dimension	66x39.9x7.8 (mm)
Power Supply	USB Power Supply (5V)
Current	<200mA
Sheathing Material	PC
Indicator Light	2 LED indicators (Red: Power/Blue: Data Communication)
Connectivity	USB A type + Micro USB
Communication Rate with Host	USB 2.0 FS (12Mbps)
Drive Protocol	CCID, PC/SC
Supported OS	WINDOWS 7/8/10/Server-2016/2012/2008/2003, Mac OS above 8
Card Reader Standard	ISO 7816 CLASS A/B/C, T=0/ ISO 14443 Type A/B
Short circuit protection	Supported
Durability	Cards can be inserted and pulled out 100,000 times
Operating Temperature	0 ~+60℃
Storage Temperature	-10 ~+70℃
Operating Humidity	10%-90% (non-condensing)

4. How to Use It

1. Connect the reader to the USB port to power on, the red light is on.

2. Put the contactless card onto the reader or insert the contact card into the reader.

3. When the blue light flashes, it means the card and the reader is performing

data communication

The table below shows the detailed status of reader

Light color	Light status	explanation
Red (Power)	Red off	Power off
	Red on	Power on
Blue (Contact/ Contactless)	Blue on	Card inserted/ Card putted on reader
	Blue flashing	Contact/Contactless data communication
	Blue off	No card inserted/ No card putted on reader

eSecuRD-BS doesn't support using contactless and contact at the same time. The

design is when inserted a contact card, the contactless interface will be blocked,

and vice versa.

FCC STATEMENT:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device

can be used in portable exposure condition without restriction.