

eSecuRD-UFO User Manual (V1.0)

Model: eSecuRD-UFO

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1. Product Overview

eSecuRD-UFO Dual Interface Reader supports all contact/contactless cards that comply with ISO 7816 and ISO 14443 standards. It can be used in E-government, banking and payment, e-medical care, network security, access control, e-wallet and membership benefits, public transportation, etc.



2. Product Features

- USB 2.0 full speed interface
- CCID compliance
- Contactless smart card reader
 - Built-in antenna for contactless tag access with card reading distance of greater than 40mm (depending on tag type)
 - Supports ISO 14443 Type A and Type B cards
 - Built-in anti-collision mechanism which allows access to only 1 contactless tag at any time
- Contact smart card reader
 - Supports ISO 7816 CLASS A, B, C (5V, 3V, 1.8V)
 - Short circuit protection

3. Product Specs

Product	eSecuRD-UFO
Dimension	φ116mm x 22mm
Power Supply	USB Power Supply (5V)
Current	≤200mA
Sheathing Material	PC
Indicator Light	3 LED indicators (Power/ Contact / Contactless)
Connectivity	Micro USB
Communication Rate with Host	USB 2.0 FS (12Mbps)
Drive Protocol	PS/SC
Supported API	PC/SC-API
Supported OS	WINDOWS 7/8/10/Server-2016/2012/2008/2003, Mac OS above 8
Contact Standard	ISO 7816 CLASS A/B/C, T=0
Contactless Standard	ISO 14443 Type A/B
Durability	Cards can be inserted and pulled out 100,000 times
C4/C8	-
Communication Frequency	13.56MHz
Communication Range	≥4cm
Operating Temperature	0 ~+60°C
Storage Temperature	-10 ~+70°C
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.



- When the light flashes, it means the card and the reader is performing data communication (blue light for contact, green light for contactless).

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)	Blue on	Card inserted
	Blue flashing	Contact data communication
	Blue off	No card inserted
Green (Contactless)	Green on	Card putted on reader
	Green flashing	Contactless data communication
	Green off	No card putted on reader

eSecuRD-UFO 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.