Card Enrollment Station

User Manual

Regulatory Information

FCC Information

FCC compliance: This equipment has been tested and found to comply with the limits for a digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Conditions

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.

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

EU Conformity Statement

This product and - if applicable - the supplied accessories too are marked with "CE" and comply therefore with the applicable harmonized European standards listed under the Low Voltage Directive 2006/95/EC, the EMC Directive 2004/108/EC, the RoHS Directive 2011/65/EU.

2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.

2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or mercury (Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see: www.recyclethis.info.

Industry Canada ICES-003 Compliance

This device meets the CAN ICES-3 (A)/NMB-3(A) standards requirements.

Safety Instruction

These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss.

The precaution measure is divided into **Warnings** and **Cautions**:

Warnings: Neglecting any of the warnings may cause serious injury or death.

Cautions: Neglecting any of the cautions may cause injury or equipment damage.

⚡	⚠
Warnings Follow these safeguards to prevent serious injury or death.	**Cautions** Follow these precautions to prevent potential injury or material damage.

⚡ Warnings

● All the electronic operation should be strictly compliance with the electrical safety regulations, fire prevention regulations and other related regulations in your local region.

● Please use the power adapter, which is provided by normal company. The power consumption cannot be less than the required value.

● Do not connect several devices to one power adapter as adapter overload may cause over-heat or fire hazard.

● Please make sure that the power has been disconnected before you wire, install or dismantle the device.

● When the product is installed on wall or ceiling, the device shall be firmly fixed.

● If smoke, odors or noise rise from the device, turn off the power at once and unplug the power cable, and then please contact the service center.

● If the product does not work properly, please contact your dealer or the nearest service center. Never attempt to disassemble the device yourself. (We shall not assume any responsibility for problems caused by unauthorized repair or maintenance.)

⚠ Cautions

● Do not drop the device or subject it to physical shock, and do not expose it to high electromagnetism radiation. Avoid the equipment installation on vibrations surface or places subject to shock (ignorance can cause equipment damage).

● Do not place the device in extremely hot (refer to the specification of the device for the detailed operating temperature), cold, dusty or damp locations, and do not expose it to high electromagnetic radiation.

● The device cover for indoor use shall be kept from rain and moisture.

- Exposing the equipment to direct sun light, low ventilation or heat source such as heater or radiator is forbidden (ignorance can cause fire danger).
- Do not aim the device at the sun or extra bright places. A blooming or smear may occur otherwise (which is not a malfunction however), and affecting the endurance of sensor at the same time.
- Please use the provided glove when open up the device cover, avoid direct contact with the device cover, because the acidic sweat of the fingers may erode the surface coating of the device cover.
- Please use a soft and dry cloth when clean inside and outside surfaces of the device cover, do not use alkaline detergents.
- Please keep all wrappers after unpack them for future use. In case of any failure occurred, you need to return the device to the factory with the original wrapper. Transportation without the original wrapper may result in damage on the device and lead to additional costs.
- Improper use or replacement of the battery may result in hazard of explosion. Replace with the same or equivalent type only. Dispose of used batteries according to the instructions provided by the battery manufacturer.

Table of Contents

1 Overview

1.1 Introduction

Figure 1-1 D8E Series Card Enrollment Station

The picture is only for reference. Please refer to the actual products.

D8E is a non-touch IC card enrollment station, used as a necessary non-touch card test machine by card issuers, chip suppliers, and testing organizations. The size of its SAM cassette equals to that of two SIM cards. The card enrollment station can connect to PC or other devices via USB interface. No-driver USB is applied to facilitate the installation and operation of the card enrollment station.

It is a front-end device which is necessary for developing IC card-related products or integrating system. With a wide variety of well-defined APIs (Application Programming Interface), the card enrollment station can widely applied in various industries and situations, such as business, telecommunication, post, insurance, medical treatment, bank, gasoline station, parking lot, and so on.

1.2 Main Features

● Plug-and-play USB with no-driver technology
● 2 SAM cassettes (standard configuration)
● Supports on-line upgrade
● Supports various card types (Mifare card, CPU, PSAM, and EM card)
● Well-defined API
● Adopts high-level encryption algorithm to ensure the security for data communication
● Provides general interface library supporting various operation systems and language development platform
● Supports USB upgrade
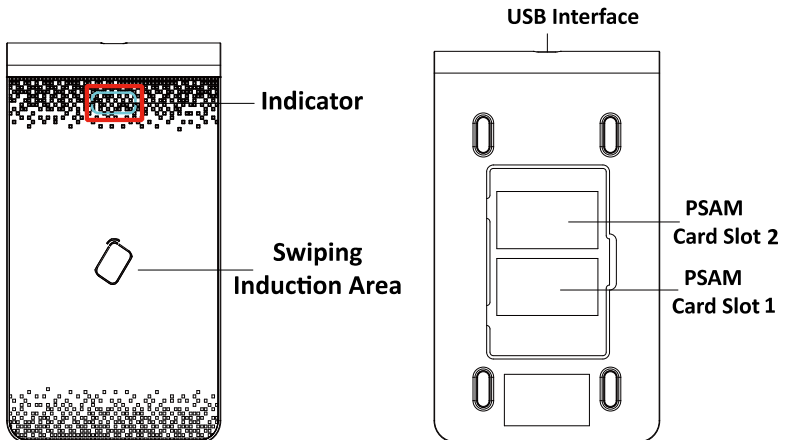● Auto-adapt with PSAM card of multiple baud rate

1.3 Appearance

Figure 1-2 Appearance of Card Enrollment Station

The picture is only for reference. Please refer to the actual products.

2 Connection Description

2.1 USB Interface Connection

Plug the wiring of USB into the USB interface of PC directly.
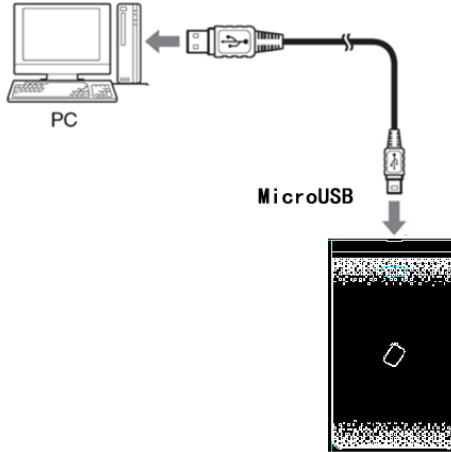

Figure 2-1 USB Interface Connection

The picture is only for reference. Please refer to the actual products.

2.2 Communication

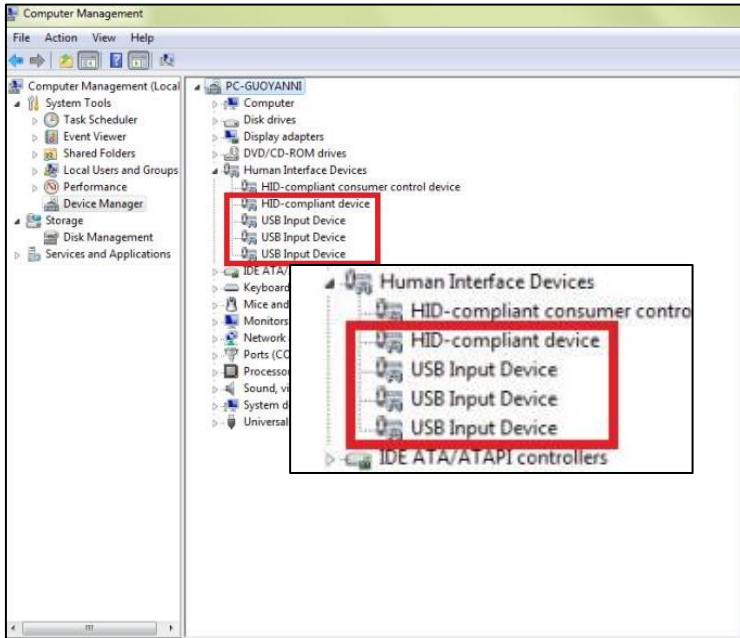When the card enrollment station is identified by the PC, its indicator will turn blue, and item "HID-compliant device" or "USB Input Device" will display in the computer control panel of PC.

Figure 2-2 Computer Control Panel