



File Name	Dept.	File No.	Date	Version	Page
S7-EU-00-02 Specification	R&D	S7-2401-001	2024-1-9	A0	1/9

Version	Date	Note	Issuer
A0	2024-1-9	First edition was published.	Ruddy Lu
	Issuer	Examiner	Approver
Name	Ruddy Lu	Ruddy Lu	Tony Leung
Date	2024-1-9	2024-1-9	2024-1-9

File Name	Dept.	File No.	Date	Version	Page
S7-EU-00-02 Specification	R&D	S7-2401-001	2024-1-9	A0	2/9



The information in this document may be updated in the near future and we, Shenzhen Fongwah Technology Co., Ltd. reserves the right to change the product or terminate it without prior notice. Customers can always contact Fongwah for the latest version of the relevant information.

## SHENZHEN FONGWAH TECHNOLOGY CO., LTD

**Address: Room 502, Building A, Dakan Industrial Park, 2<sup>nd</sup> Road, No.19,  
Xili Town, Nanshan District, Shenzhen City, Guangdong Province**

**Tel: (086-755) 26923337**

**Fax: (086-755) 26922227**

**E-mail: [market@fongwah.com](mailto:market@fongwah.com)**

**Website: <http://www.fongwah.com>**



File Name	Dept.	File No.	Date	Version	Page
S7-EU-00-02 Specification	R&D	S7-2401-001	2024-1-9	A0	3/9

## Menu

1. Product Introduction .....	4
2. API Description .....	5
3. Model Coding .....	6
4. Product Features .....	7
5. Product Advantages .....	8
6. Product Application .....	9

File Name	Dept.	File No.	Date	Version	Page
S7-EU-00-02 Specification	R&D	S7-2401-001	2024-1-9	A0	4/9

## 1 Product Introduction

S7-EU-00-02 is an IC card and ID card readers for contactless card types working on the frequency ranges of 13.56MHz and 125KHz. Compliant with ISO 14443A/B protocols, the device is designed to get the UID of any IC and ID contactless cards (e.g.MIFARE Classic series and EM4100 series) with the output format of keyboard emulation on the corresponding frequency range.Its main function is to retrieve the UID and display it directly in any text editor(Notepad, MS Word/ Excel etc).

The reader connects the PC and relevant equipment via USB port (Type-A) plug and play technology, which is really user-friendly for end users. The attached SDK CD, packed together with the reading machine, can be used to change the UID output format between hexadecimal and decimal, or the output order between default and reverse etc. Meanwhile, the firmware supports to be upgraded online and it is up-datable by USB.

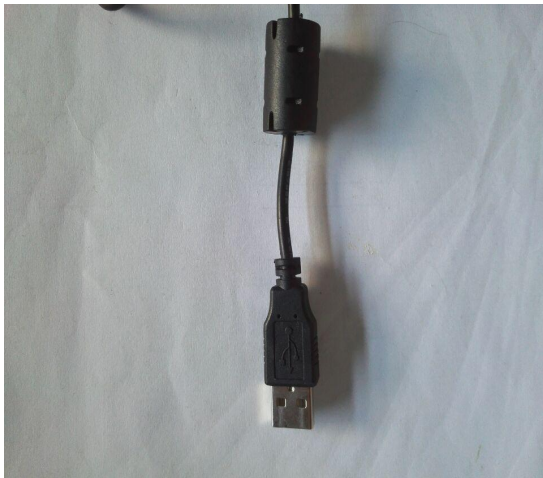
S7-EU-00-02 is a must-have front-end processing reading machine for contactless IC and ID cards applications and system integration.With simple, plain outlook and its easy-to-use design, the model will be widely used in areas such as transport, ID identity, access control, storage query, printing management, E-commerce, medical, government administration etc.

File Name	Dept.	File No.	Date	Version	Page
S7-EU-00-02 Specification	R&D	S7-2401-001	2024-1-9	A0	5/9

## 2 API Description

The reader is communicated and powered by a standard USB port (Type-A), whose cable is equipped with an anti-interference magnetic ring to guarantee data transmission safety.

See the below picture:



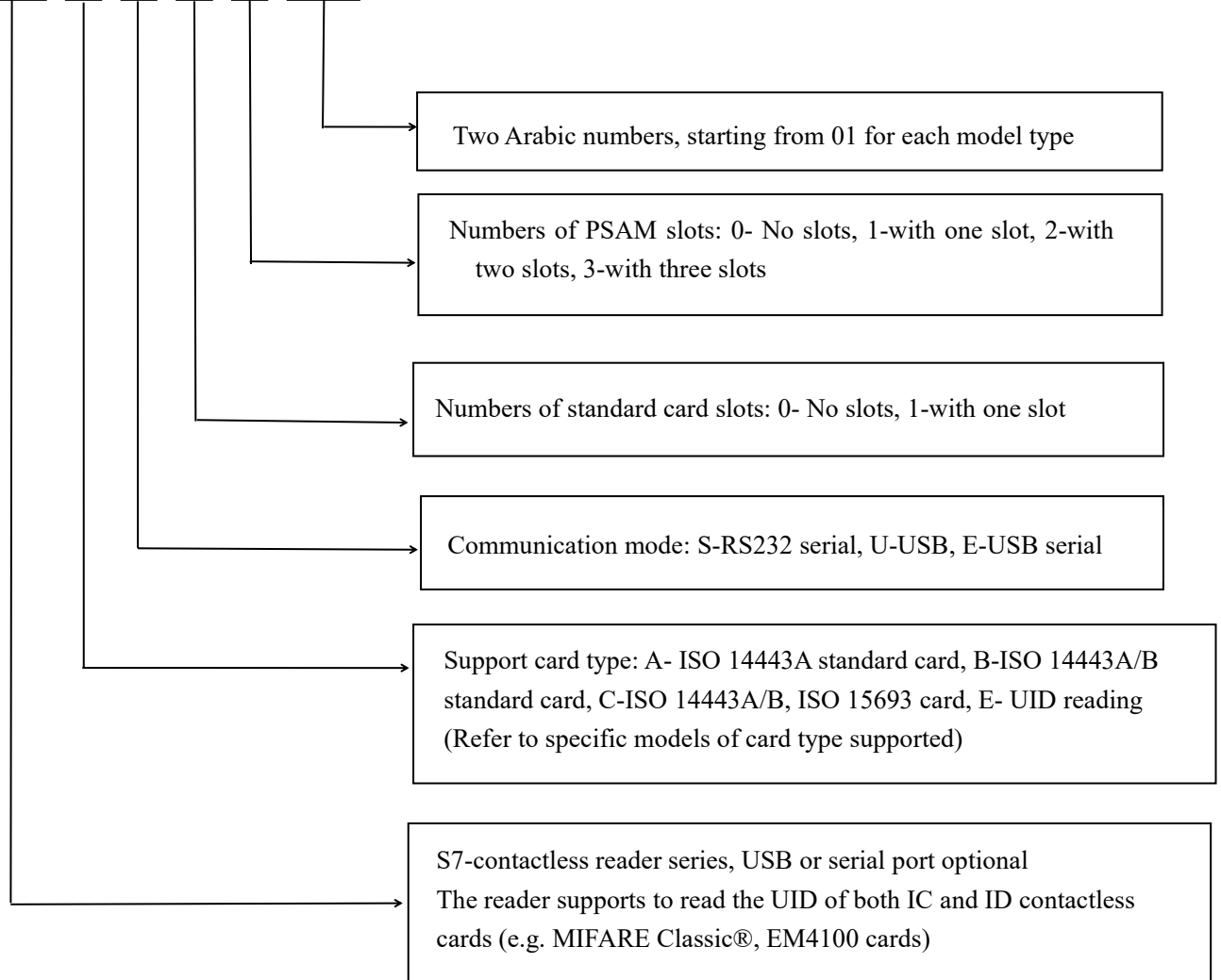
## 3 Model Coding

Users can select the model upon their needs. The model coding is as below:

File Name	Dept.	File No.	Date	Version	Page
S7-EU-00-02 Specification	R&D	S7-2401-001	2024-1-9	A0	6/9

## S7 Series IC and ID Card Reader Model Coding

S7-X-X-X-X-XX



This model S7-EU-00-02 supports to read UID of IC and ID cards of ISO14443A/ B standards compliant and EM4100 series compatible and output via USB keyboard emulation. If you require other functions, for example to read/ write card data, flexible for users to create custom software using our SDK for seamless integration and so on, you could contact us for information about other models or your model customization.

File Name	Dept.	File No.	Date	Version	Page
S7-EU-00-02 Specification	R&D	S7-2401-001	2024-1-9	A0	7/9

## 4 Product Features

Items	Specifications
<b>Performance</b>	
Support card type	ISO14443A/B Standards-compliant IC card, ID card of EM4100 series compatible
Protocols	ISO14443A/B
Working frequency	13.56MHz/125KHZ
IC card read rate	106Kbps
Read distance	0~50mm
<b>Communication</b>	
Power supply	Powered by USB port (Type-A)
Communication	By USB port (Type-A)
<b>HID (Human Interface Device)</b>	
LED Light	Green color, the light is on with power up and it flickers during communication
Buzzer	Monotone
Support systems	Windows 98, Me, 2K, XP, 2003, Vista, 7(32 and 64 bit), Unix, Linux and Android
<b>Working Parameters</b>	
Working voltage	DC5V± 10%
Working current	75mA
Working temperature	-20℃ ~85℃
Working humidity	10%~90%
<b>Physical</b>	
Dimension	105(L) * 65(W) * 15(H) mm
Weight	143g

File Name	Dept.	File No.	Date	Version	Page
S7-EU-00-02 Specification	R&D	S7-2401-001	2024-1-9	A0	8/9

**Technical Support**

Equipped software	Users are able to set up the output formats.
Service	Our professional technician answers any technical issues in your software development process.

## 5 Product Advantage

- Independent outlook design, simple and stylish
- Built-in antenna, working frequency on 13.56MHz and 125KHz
- Active card reading for UID of ISO14443A/B compliant IC cards and ID cards compatible with EM4100 series
- Simple and easy operation: Data is output via keyboard emulation
- The equipped software enables users to choose card type and set up data output format.
- With LED light and buzzer
- The item can be used either via a PC or be embedded into other self-developed equipment of users.
- Easy to use: USB port plug-and-play without any extra driver needed
- The device can be custom-made upon specific demands.
- The reader is able to update firmware online and the future function update/modification can be achieved via the USB port.



File Name	Dept.	File No.	Date	Version	Page
S7-EU-00-02 Specification	R&D	S7-2401-001	2024-1-9	A0	9/9

## 6 Product Application

- Membership amount query
- Automatic vending machine
- Electronic vehicle charging
- Telecommunication
- Postal
- Tax administration
- Insurance
- Medical
- Meeting attendance
- Internet cafe management
- Gas station
- Parking management
- Membership card management
- Printing system

Note: RFID module is sensitive to its environment. Metals reflect and shield electromagnetic waves, which means metals affect the performance of both readers and tags. If the module is placed near metals, the reading rate of tags shall be lower. Therefore, please try to keep away metal objects and other items like electronic coils while installing this device.