Specification of U1-CU-71 UHF Reader Writer

File No.: U1-2407-01   Version: A0   Date: 07/30/2024

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1.Product Introduction

U1-CU-71 is specially designed as a long reading range contactless IC card reader, compliant

with protocols including EPC global UHF class 1 Gen 2, ISO18000-6C and GB/T 29768-2013.

The device connects to the PC or relevant equipment by a plug-and-play USB port.

It supports multiple tags group reading, long distance reading, adjustable distance for being

more user-defined. U1 reader writer is a necessary front-end processing device for IC card

related applications and system integration. With glossy surface and a large number of driver

interface functions, this UHF reader is greatly applied in fields such as transport, identity

authentication, access control, storage query, e-commerce, government, medical.
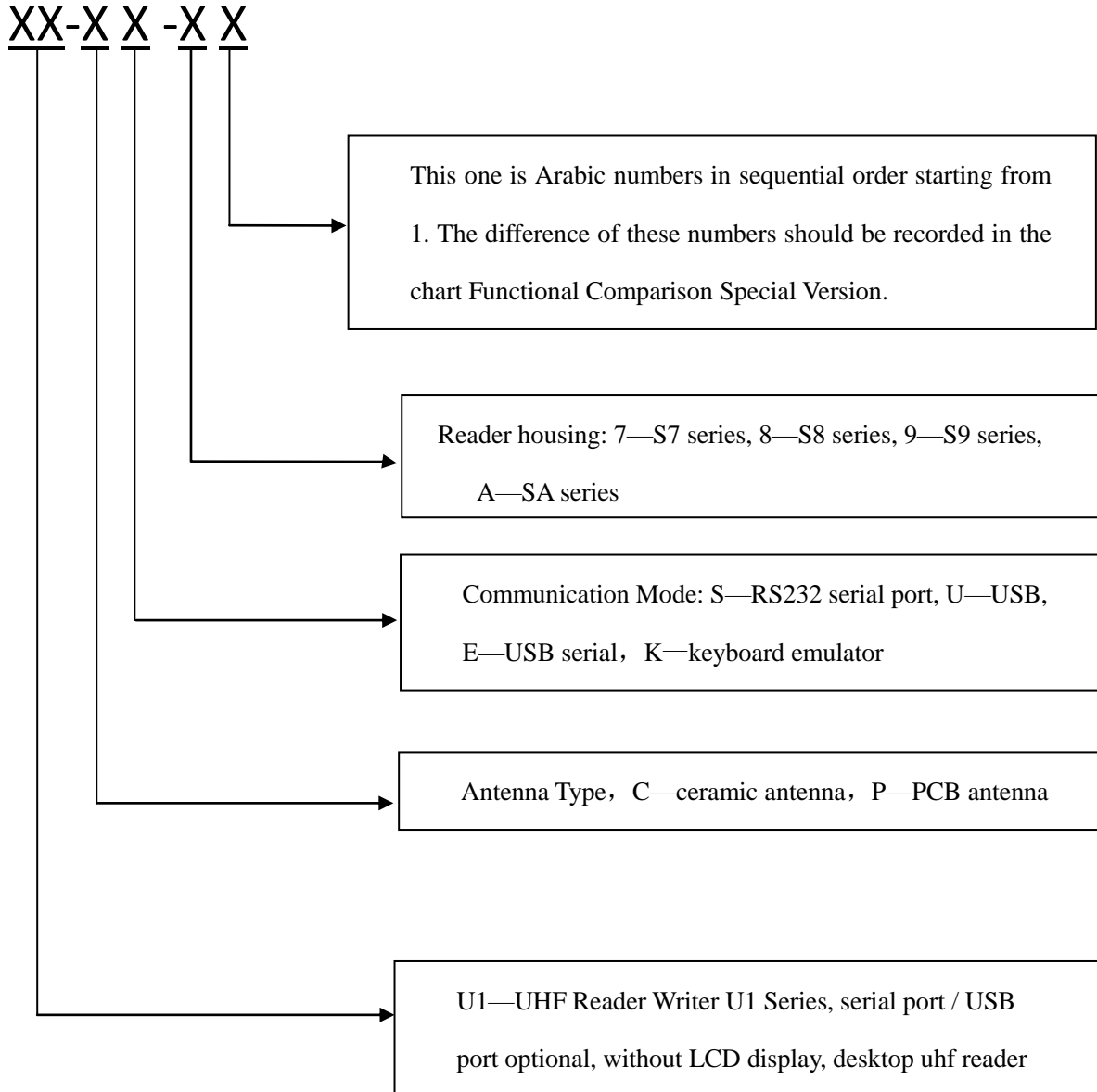
2.Model Type Description

Users can choose their model types on their demands. Below is the model type description for

U1 Series UHF Reader Writer.

XX-X X -X X

This one is Arabic numbers in sequential order starting from 1. The difference of these numbers should be recorded in the chart Functional Comparison Special Version.

Reader housing: 7—S7 series, 8—S8 series, 9—S9 series, A—SA series

Communication Mode: S—RS232 serial port, U—USB, E—USB serial，K—keyboard emulator

Antenna Type，C—ceramic antenna，P—PCB antenna

U1—UHF Reader Writer U1 Series, serial port / USB port optional, without LCD display, desktop uhf reader

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3.Product Features

Items	Specifications
Performance Parameters	
Protocols Compliance	EPC Global UHF Class1 Gen2, ISO18000-6C, GB/T29768-2013
Output Power	0~20dBm
Output Power Accuracy	1dB
Output Power Flatness	±0.2dB
Receiver Sensitivity	-67dBm
Working Frequency	ETSI 865~868MHz/FCC 902~928MHz/GB 920~925MHz
Peak Power	30 pcs/second
Read Write Range for Tags	0-50cm (depending on tags' performance and the working environment)
Interface Parameters	
Communication Port	USB Type-A
Maximum Baud Rate	115200bps
Communication Interface	USB
Man-machine Interface	
Indicator	To indicate the power or communication status
Buzzer	Monotone
Support Systems	Windows Me, 2K, XP, 2003, Vista, Unix, Linux, WinCE, Win7, Win8, Win10, Win11
Power Parameters	
Power Supply	Powered by USB
Working Voltage	DC 5V±10%

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Working Current	30mA~120mA
Working Temperature	-40℃~70℃
Working Humidity	10%~90%
Physical Parameters	
Product Dimension	110mm x 67mm x 17mm
Product Weight	160g
Service Support	
Software Development Kit	Including dynamic link library(DLL), application examples, user manual and demo software, operation
Supporting Service	Our professional sales technician answers any technical issues in your software development process.

4.Product Advantages

- Self-interference cancellation circuit

- Support anti-collision

- Support multi tags identification, reading/writing data

- Contactless modules are provided to be embedded into users' own equipment.

- The device can be custom-made according to any specific request of users.

- The indicator and the buzzer are reminders to avoid breakdown caused due to improper operation.

- This UHF reader can be used via a PC and be embedded into other self-designed equipment of users.

- USB port plug and play

- Users can set up data's output format on their own on Keyboard Emulator mode; they can make the secondary development on Read/Write mode.

- Support OTG communication interface

- Support RS232 communication or TTL(3.3V) communication

- The attached CD provides most driver SDKs and program examples on regular platforms. Users simply call specific functions and they can accomplish the software development, reducing the difficulty of software development and the development circle of products.

- The attached demo program includes all functions to read and write UHF tags.

5.Product Applications

- Smart Garbage Collection Truck

- Smart Warehouse Inventory

- Smart Car Park

- Assembly Line Management

- Automatic Equipment Manufacturer

- Parcel Sorting

- Counting Conveyor System

- Smart Lock Industry

- Retail

- Books and Achieve

- Identification

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.