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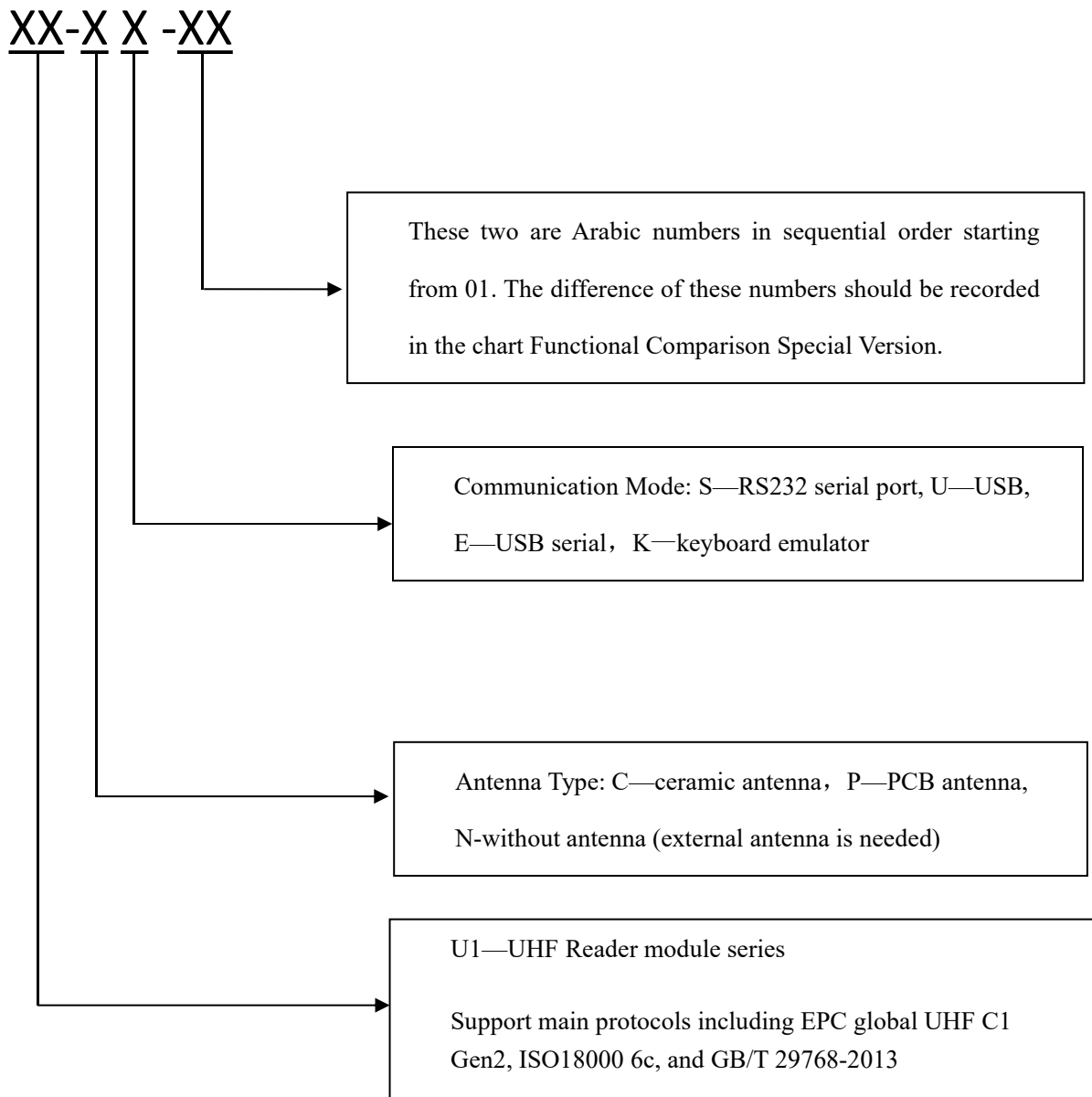
1.Product Introduction

Fongwah U1-PK-01 is a portable UHF reader based on domestic chips of independent development. The reader has an integrated HID chip and a built-in on-board antenna. Its tiny size is good for desktop applications and portable demand. Moreover, it can be connected via PC or Android cellphones.

This reader complies with protocols including EPC global UHF class 1 Gen 2/ISO 18000-6C and GB/T 29768-2013. We even offer multi-platform open API as to support your software development accordingly. The module is applicable for a small number of tags or places where short-range identification, read/write function and high security is required; it will generate a promising future in various industries such as logistics, retail, personal identification.

2. Model Type Description

Users can choose their model types on their demands. Below is the model type description for Fongwah U1 series UHF Reader Writer.



3.Product Features

Items	Specifications
Performance Parameters	
Protocols Compliance	EPC Global UHF Class1 Gen2, ISO18000-6C, GB/T29768-2013
Output Power	3~20dBm
Output Power Accuracy	± 1dB
Output Power Flatness	± 0.2dB
Receiver Sensitivity	-67dBm
Working Frequency	GB 920~925MHz/FCC 902~928MHz
Peak Power	30 pcs/second
Tags Buffer Zone	100 pcs@96bit EPC
Tags Read Write Range	0-50mm (depending on tags' performance and the working environment)
Interface Parameters	
Communication Port	USB Type-C
Maximum Baud Rate	115200bps
Communication Interface	USB
Antenna Type	PCB antenna
Antenna Port	1 port
Antenna Impedance	50Ω
Man-machine Interface	
Support Systems	Windows Me, 2K, XP, 2003, Vista, Unix, Linux, WinCE, Win7
Power Parameters	
Working Voltage	5V

Specification of UHF Reader Writer U1-PK-01

File No. : U1-2304-01 Version: A0 Date: 04/08/2023

Working Current	65mA~116mA
Working Temperature	-40℃~70℃
Working Humidity	10%~95%
Physical Parameters	
Product Dimension	81mm x 55mm x 8mm
Product Weight	about 24g
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 mainstream protocols including EPC Global UHF Class 1 Gen 2, ISO 18000-6C and GB/T 29786-2013
- Support anti-collision
- Support multi tags identification, reading/writing data
- Support RSSI tags
- 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 UHF reader module can be used via a PC and be embedded into other self-designed equipment of users.
- 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.