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SHENZHEN FONGWAH TECHNOLOGY CO., LTD

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

Tel: (086-755) 26923337

Fax: (086-755) 26922227

E-mail: market@fongwah.com

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

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1. Product Introduction

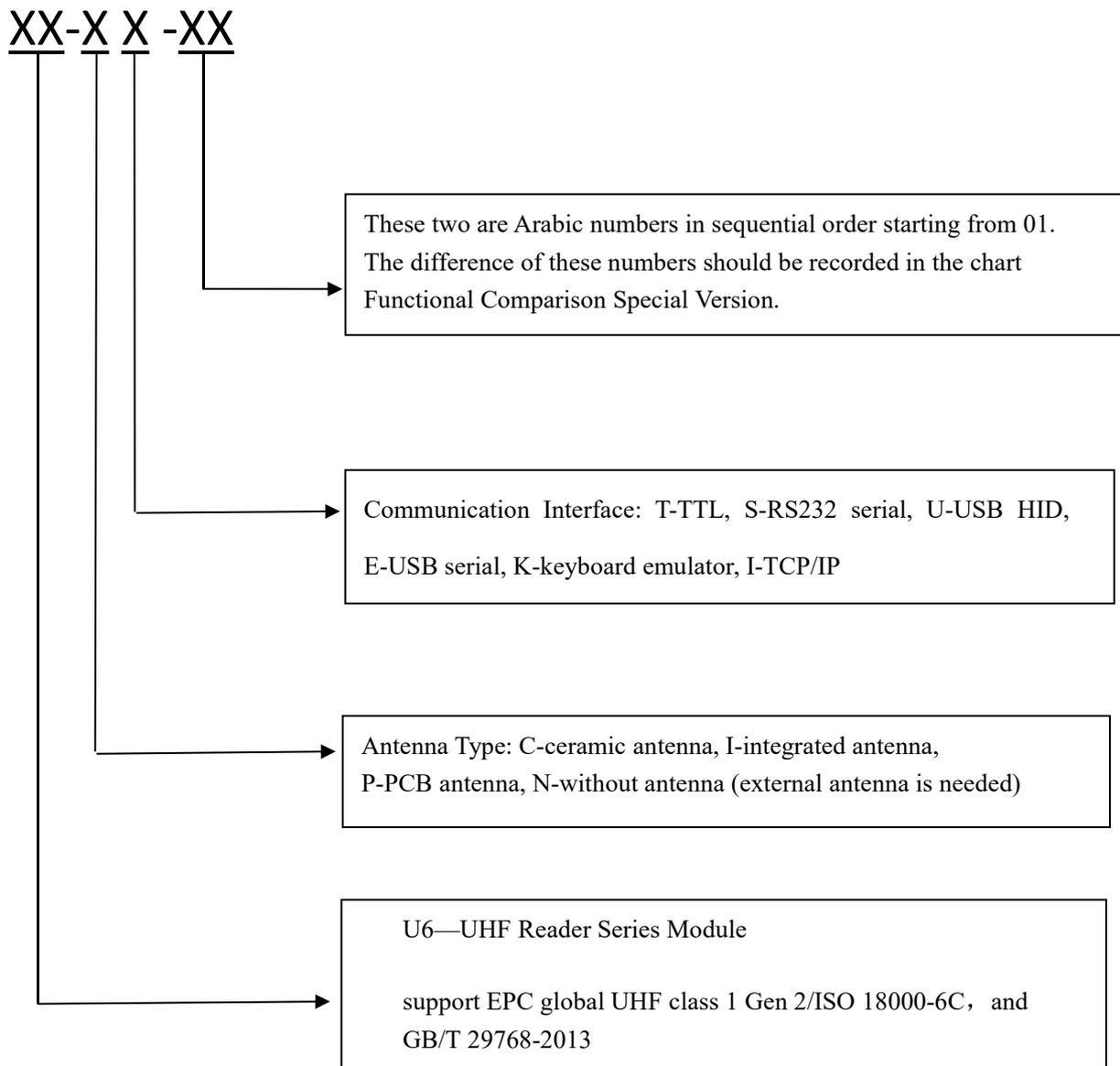
U6-IE-02 Fixed RFID Reader Writer is a Read/Write device equipped with Fongwah UHF read write module and a 8dB integrated antenna. The UHF reader writer supports main protocols including EPC global C1 Gen2, ISO18000 6c and GB/T 29768-2013.

We offer multi-platform open SDK as to support any software development. The module is applied for occasions where group uhf tags and long distance reading, data transmission and high security are required. Moreover, it supports to read/write our self-designed temperature sensing tags. In the near future, it will enjoy a promising market in a variety of industries including asset management, aviation, logistics, retail, identification and etc.

2. Model Type Description

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

Fongwah U6 series UHF Reader Module.



3.Product Features

Items	Specifications
Performance Parameters	
Protocols Compliance	EPC Global UHF Class1 Gen2, ISO18000-6C, GB/T29768-2013
Output Power	3~30dBm
Output Power Accuracy	± 1dB
Output Power Flatness	± 0.5dB
Receiver Sensitivity	-76dBm
Working Frequency	FCC 902~928MHz/GB 920~925MHz
Peak Power	500 pcs/second
Tags Buffer Zone	700 pcs @96bit EPC
Read Write Range for Tags	0-8m (depending on tags' performance and the working environment)
Interface Parameters	
Communication Interface	USB serial port (RS232, HID, TCP/IP optional)
Maximum Baud Rate	115200bps
Power Supply	Powered by USB
Antenna Type	SMA
Antenna Port	1 port
Antenna Impedance	50Ω
Man-machine Interface	
Support Systems	Windows Me, 2K, XP, 2003, Vista, Unix, Linux, WinCE, Win7
Power Parameters	

Specification of U6-IE-02 Fixed RFID Reader Writer

File No.: U6-2306-02 Version: A0 Date: 06/17/2023

Working Voltage	5V
Working Current	260mA~670mA
Working Temperature	-40℃~70℃
Working Humidity	10%~95%
Physical Parameters	
Product Dimension	190mm x 190mm x 54mm
Product Weight	about 560g
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
- Fixed UHF module with integrated antenna
- Support main 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 Tags RSSI
- 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.