Assignment 1 Basic Knowledge

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Format: Name the document in the combination of name、ID, and No. of Assignment.

**Example: Ping Yi\_23\_Assignment1.doc**

**Email the document to “pingy@wxit.edu.cn” before September 21st.**

1. RFID系统的基本组成是什么？简述RFID系统分类的方法。

A1: A typical reader terminal consists of tag, an antenna, an RF interface module, and a logic control module.

A2: According to use frequency classification: UHF (960MHz) >300MHz (433MHz), HF = 13.56MHz, LF 128KHz.

The e-label is classified by battery. Passive(LF、HF), Active(UHF), Semi-Active.

According to the technology of reading electronic label data real classification.

Classified according to the information injection mode in the electronic label.

2.RFID读写器的基本组成和功能是什么？有哪些常用的结构形式？

A1:

A typical reader terminal consists of an antenna, an RF interface module, and a logic control module.

Antenna: it is mainly responsible for converting the current signal in the reader into rf carrier signal (载波) and sending it to the electronic tag, or receiving the RF carrier signal sent by the tag and converting it into current signal.

RF interface module: transmits and receives RF signals. (RDM630, RC522, FM1702)

Logical control module(MCU): sends commands, and the RF interface module performs different operations according to different commands.

A2: Stationary(Fixed) reader OEM modular reader, handheld portable reader, industrial RFID reader.