General Description

The CY14443A Series RF reader module based on the ISO14443 standard non-contact card reader chip using 0.6 micron CMOS EEPROM process to ISO14443 type A protocol support for MIFARE standard encryption algorithm. Inside the chip highly integrated analog modulation and demodulation circuit, just the least amount of peripheral circuits can support the UART interface (-C), the I2C interface (-U), or SPI interface (-P) digital circuits with TTL,CMOS two voltage mode. Particularly suitable for the application of the ISO14443 standards, water, electricity, gas meters, vending machines, access control, elevators, drinking fountains, telephones and other billing systems or the identification system reader.

Users do not have a complex control of the radio base stations simply by selecting the UART or the IIC or SPI interface to send commands to the card with fully

CY-14443A Series support Mifare One S50 is S70, the Ultra Light, Mifare Pro, FM11RF08 and other compatible cards. Can be set to automatically find the card, the default case for automatically searching card

CY-14443A is a low-power consumption wide voltage function modules, work 3 to 5.5V, the lowest power consumption of only 3ua integration module can greatly reduce the PCB area, and enhance application performance, capable of a variety of applications
1. CY-14443A series all on-board built-in antenna, external antenna can be followed

   Built-in antenna advantages: higher level of integration, the size of a small but you can read the card, 6cm or less basic without an external antenna to meet most design needs, and do not need to replace the circuit can connect an external antenna improve the reusability of the system, greatly reducing costs, In addition, the built-in antenna of the read head can be used as active antenna.

2. An increase 4kBits EEPROM, the EEPROM byte address from 0x00 to 0x1FF

3. You can read the PCD, PN, SN

Products Feature:

1. USB, standard USB HID protocol, no need to drive directly to the card ID number output

2. Automatically senses the card, near the area of the antenna directly to HID mode output four-byte ID followed by a carriage return

3. Highly integrated ISO14443A reader chips, support for MIFARE standard encryption algorithm

4. Both with TTL / CMOS voltage mode of operation, the operating voltage to 5.5V

5. Industrial-grade high-performance processor, built-in hardware watchdog, with high reliability

6. Anti-jamming processing and excellent EMC performance

7. Simplify the complexities of the underlying read and write card operation to a simple read directly removed from the USB drive, the more universal, you can cross the WINDOWS / LINUX / WINCE platform general, no custom drivers directly read the card ID number

8. Antenna integration module (comes with the antenna, reading distance 0-6cm), Using an external antenna, then you can reach about 10cm