

RFID electronic tag solution

1、RFID technology provides security for the liquor market. The RFID technology based liquor traceability system, which started from the production packaging line, fundamentally eliminates the occurrence of counterfeit liquor. By integrating monitoring and recording information from raw materials, assembly, warehouse inventory, shipment, to retailers, it effectively protects the interests of consumers and liquor enterprises. Passive RFID electronic tag, non power consuming, unique ID number globally, with a lifespan of up to 10 years longer than barcode and QR code, capable of writing 100000 times, wear-resistant, waterproof, anti magnetic, and anti-corrosion. Tags can be encrypted and cannot be forged. Only dedicated devices and software can read and write tags. RFID reader, remote recognition, capable of batch and rapid collection or automatic collection of RFID tags. UHF/HF handheld device, non-contact recognition of electronic tags, no need for alignment, more convenient and faster than collecting barcodes and QR codes. NFC is gradually becoming a standard feature on smartphones, with NFC anti-counterfeiting labels. The day of NFC popularization, from cities to rural areas, is the time when counterfeit goods have nowhere to hide.

2、End users can use NFC anti-counterfeiting technology in conjunction with mobile phones. The advantage of the NFC scheme is that it cannot be replicated, as each label is equipped with an encrypted tamper proof digital signature. The entire communication process is encrypted and therefore cannot be replicated.

1. NFC anti-counterfeiting technology has broken through the ideas of previous anti-counterfeiting technologies and adopted a revolutionary new measure, making it difficult to forge, easy to identify, information feedback, password uniqueness, password confidentiality, one-time use, and other characteristics. The advantage of using NFC technology for anti-counterfeiting, compared to laser anti-counterfeiting, digital anti-counterfeiting, etc., is that each label has a unique ID number, which is placed in the ROM during chip production and cannot be modified or imitated; No mechanical wear and tear, anti fouling; The reader has a physical interface that is not directly open to the end user, ensuring its own security; In terms of data security, in addition to the protection of electronic tags, each tag has an encrypted digital signature.

2. There is a mutual authentication process between the reader and the electronic tag, and the communication layer is encrypted.

3. Consumers can easily read RFID anti-counterfeiting labels and obtain product authenticity and traceability information throughout the entire lifecycle by using their mobile NFC.

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