

NFC-NTAG 213TT 芯片

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| 产品名称 | NFC-NTAG 213TT 芯片 |
| 公司名称 | 重庆五盾科技有限公司 |
| 价格 | .00/个 |
| 规格参数 | 五盾:WD-213TT |
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产品详情

与NTAG 213相比，NTAG 213 TT扩展了很多功能，为智能包装和品牌保护增加了一些优势。NTAG 213 TT启动时，全新标签防篡改功能可检测标签篡改线的状态。在检测线打开的情况下，NTAG 213 TT会永久保存此事件。标签篡改线的信息状态可以ASCII码形式映射到包含NDEF消息的用户存储器中，也可以使用专用命令来读取NTAG 213 TT offers extended features compared to the NTAG 213 providing additional benefits for smart packaging and brand protection. NTAG 213 TT the new tag tamper functionality which is detecting the status of a tag tamper wire during the startup. In case of an open detection wire, the NTAG 213 TT permanently stores this event. Information status of the tag tamper wire can be mirrored in ASCII code into the user memory which contains the NDEF message or can be read with a dedicated command

如需进一步了解NTAG 213 TT的信息，请提供可在标签初始化期间编程和锁定的独创性的签名Further on the NTAG 213 TT offers the improved originality signature which can be programmed and locked during the tag initialization

NTAG 213 TT完全符合NFC Forum 2类Tag规范和ISO/IEC14443 A类规范。

The NTAG 213 TT is fully compliant to NFC Forum Type 2 Tag and ISO/IEC14443 Type A specifications.

特性 Features

* 非接触式数据和电能传输

Contactless transmission of data and supply energy

* 工作频率：13.56 MHz

Operating frequency of 13.56 MHz

* 数据传输：106 kbit/s

Data transfer of 106 kbit/s

* 数据完整性：16位CRC、奇偶校验、位编码、位计数

Data integrity of 16-bit CRC, parity, bit coding, bit counting

* 工作距离：最远100 mm (取决于不同参数，如场强和天线几何尺寸)

Operating distance up to 100 mm (depending on various parameters as e.g. field strength and antenna geometry)

* 7字节序列号(符合ISO/IEC 14443-3级联2级)

7-byte serial number (cascade level 2 according to ISO/IEC 14443-3)

* 用于自动序列化NDEF消息的UID ASCII镜像

UID ASCII mirror for automatic serialization of NDEF messages

* 接收到读取命令时自动触发NFC计数器

Automatic NFC counter triggered at a reading command

* NFC计数器的ASCII镜像可自动将NFC计数器值添加到NDEF消息

NFC counter ASCII mirror for automatic adding the NFC counter value to the NDEF message

* 标签防篡改功能，可检测启动后标签篡改线是否打开

Tag Tamper feature detecting if the tag tamper wire is open after startup

* 标签防篡改消息ASCII镜像，当检测到篡改事件时，将定制的标志防篡改信息复制到NDEF消息

Tag Tamper message ASCII mirror copying the customized Tag Tamper message into the NDEF message if there is a detected tamper event

* 基于ECC的原始签名，可以提供定制和永久锁定功能

ECC-based originality signature, offering the possibility for customizing and permanently locking

* 快速读取命令

Fast read command

* 真正防干扰

True anticollision

* 50 pF输入电容

50 pF input capacitance

* 用于在启动过程中检测标签破坏线的状态（如果检测导线开路，则NTAG 213 TT将永久存储此事件）

Used to detect the status of tag broken line during startup (NTAG 213 TT will permanently store this event if it detects an open wire)

* 标签防破坏线的信息状态可以ASCII码形式镜像到包含NDEF信息的用户存储器中或者可以通过专用命令读取

The information state of the tag anti-corruption line can be mirrored in ASCII format into the user memory containing NDEF information or can be read by a special command

* 可以在标签初始化期间对其进行编程和锁定

can be programmed and locked during tag initialization

* NTAG 213 TT完全符合NFC Forum Type 2 Tag (Ref.2) 和ISO / IEC14443 Type A (Ref.1) 规范，只有当IC连接到天线时才能建立与NTAG 213 TT的通信，当NTAG 213 TT位于RF场中时，高速RF通信接口允许以106 kbit / s的波特率传输数据。

Communication with NTAG 213 TT can only be established when IC is connected to an antenna. When NTAG 213 TT is located in an RF field, the high-speed RF communication interface allows data to be transmitted at a baud rate of 106 kbit / s.

存储器 EEPROM

& 184字节，以46页、每页4字节进行组织

184 bytes organized in 46 pages with 4 bytes per page

& 144字节用户可自由读/写区(36页)

144 bytes freely available user Read/Write area (36 pages)

& 4字节初始化功能容器，带一次性编程访问位

4 bytes initialized capability container with one-time programmable access bits

& 前16页具有每页现场可编程只读锁定功能

Field programmable read-only locking function per page for the first 16 pages

& 前16页之后每两页具有现场可编程只读锁定功能

Field programmable read-only locking function above the first 16 pages per double page

& 可配置密码保护，失败尝试次数限制可选

Configurable password protection with an optional limit of unsuccessful attempts

& 功能容器(CC)和锁位支持防修改功能

Anti-tearing support for capability container (CC) and lock bits

& 预设的基于ECC的原始签名，可以提供定制和永久锁定功能

Pre-programmed ECC-based originality signature, offering the possibility for customizing and permanently locking

& 标签防篡改消息

Tag Tamper message

& 数据保留10年时间

Data retention time of 10 years

& 写入操作耐受程度为100.000个周期

Write endurance 100.000 cycles

UID /序列号 serial number

唯一的7字节序列号(UID)及其两个校验字节被编程到内存的前9个字节:它包括页面地址00h、01h和页面02h的第一个字节。页面地址02h的第二字节被保留用于内部数据。这些字节是在生产测试中被编程和写保护。The unique 7-byte serial number (UID) and its two check bytes are programmed into the first 9 bytes of memory: It covers page addresses 00h, 01h and the first byte of page 02h. The second byte of page address 02h is reserved for internal data. These bytes are programmed and write protected in the production test.

根据ISO/IEC 14443-3，校验字节0(BCC0)被定义为CT*CT*SN0# SN1# SN2#。检查字节1(BCC1)被定义为SN3# SN4# SN5# SN6。SN0持有恩智浦半导体的制造商04h，符合ISO/IEC 14443-3。

In accordance with ISO/IEC 14443-3, check byte 0 (BCC0) is defined as CT*SN0# SN1# SN2#. Check byte 1 (BCC1) is defined as SN3# SN4# SN5# SN6. SN0 holds the Manufacturer ID for NXP Semiconductors (04h) in accordance with ISO/IEC 14443-3.

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