

VC-SF-T8007 Specification

Release History

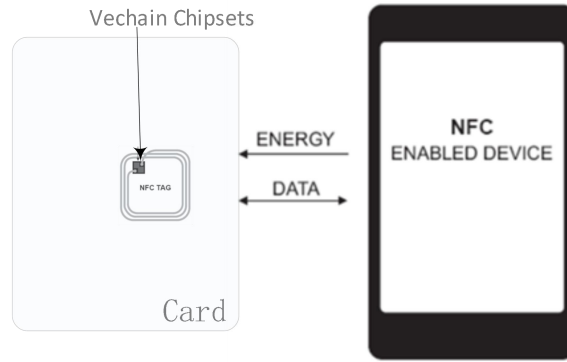
Version	Change history	Date
V1.1	Initial Release	18/09,2019

Contents

GENERAL DESCRIPTION.....	4
KEY FEATURES.....	5
ENVIRONMENT PARAMETER.....	5
KEY APPLICATION.....	6
APPLICABLE DOCUMENTS.....	6
ORDERING INFORMATION.....	6
LEGAL INFORMATION.....	7
CONTACT INFORMATION.....	7

General Description

VC-SF-T8007 Series is a passive NFC tag product, which is compliant with the ISO/IEC14443A /NFC Forum Standard. It can communicate with NFC device (e.g. mobile phone) contactless to transfer data as below picture shows.



a. Contactless System



b. Product Pic



c. Packing

The tag is pre-programmed with VeChain IDs and cryptographic keys, which can be used in VeChain Blockchain solutions, such as anti-counterfeiting, traceability and inventory in logistics supply chain management and consumer engagement.

The product dimension is 5*30mm (± 0.5 mm), the Antenna Size is 4.5*28 mm(± 0.2 mm), the compact size fits for most scenarios, with good RF performance. And we can provide size customized service according to your goods.

Key Features

- Substrate Material Polyimide(PI)
- Antenna Material Copper Etching
- Surface Material Paper
- Memory Capacity 144 byte
- Operating Frequency 13.56MHz
- Protocol ISO/IEC 14443A
- Read and write range 0~3.0 CM (Determinate by reader and use environment)
- Operating Mode Read or Write
- Programming Cycle 100,000 cycles
- Packing Volume number 100 ~ 3000PCS in one bag (According to actual demand)
- Packing Material Foam stuff

Environment Parameter

- Storage Temperature 0°C ~ 25°C
- Operating Temperature -40°C ~ 85°C
- Data Retention: 10 years
- Humidity: 10%~80%

Key Application

- Goods and device authentication
- Product information
- Logistic management

It can be used for anti-fake and traceability for leather products.

Applicable Documents

- [ISO/IEC 14443-2]
 - ISO/IEC 14443-2 Type A Identification Cards- Contactless Integrated circuit(s) cards- Proximity Cards- Part 2: Radio frequency power and signal interface
- [ISO/IEC 14443-3]
 - ISO/IEC14443-3 Type A Identification Cards- Contactless Integrated circuit(s) cards- Proximity Cards- Part 3: Initialization and Anti-collision
- [NDEF]
 - “NFC Data Exchange Format (NDEF)”, NFC Forum™, Technical Specification, May 2006.

Ordering information

Part number	Antenna Description	Product Description	Package Description
VC-SF-T8007-010	Copper	Antenna Size 4.5*28 mm(\pm 0.2mm) Tag Size 5*30 mm(\pm 0.5mm) Chip IC: - NXP (NFC)	By piece and packaged by plastic bag

Legal Information



Contact information



For more information, please visit: <https://www.vechain.com>

For sales office addresses, please send an email to: bd@vechain.com