

# NXP NTAG® 424 DNA NFC FPCB Tag

AZT-N424D-FPCB-D20



## Key Features

**Operating Frequency**  
HF 13.56MHz

**Chip Type**  
NXP NTAG® 424 DNA

**International Standard**  
ISO/IEC 14443-A, NFC Forum Type 4

**User Memory**  
416 bytes

**Operating Environment**  
-20~+50°C, 95% humidity

## 1. Product Overview

The NTAG® 424 DNA FPCB tag is an innovative product that combines high-performance NFC technology with flexible printed circuit board (FPCB) design. With heat-resistance and pressure resistance, it's suitable for re-encapsulation. Integrating the NTAG® 424 DNA chip, the tag offers advanced encryption that effectively protect data, high frequency for short range information communication, and anti-collision to avoid interference from other tags in the vicinity. Its compact form, advanced security and powerful performance make it suitable for applications like secure cryptocurrency wallets, product authentication, dynamic marketing, real-time customer interaction, access control and etc.

## 2. Product Parameters

### 2.1 Physical Characteristics

SKU	AZT-N424D-FPCB-D20
Material	FPCB
Diameter	20mm ± 0.3mm
Thickness	FPCB: 0.15mm, Chip: 0.7mm
Weight	0.137g

### 2.2 Technical Parameters

Operating Frequency	13.56MHz
Communication Protocol	ISO/IEC 14443-A, NFC Forum Type 4
Reading Distance	2-4cm
Response Time	<80ms



2.3 Chip Characteristics

Chip Manufacturer	NXP®
Chip Type	NTAG® 424 DNA
User Memory	416 bytes
UID	7-byte
Communication Rate	106 kbit/s, 212 kbit/s, 424 kbit/s, and 848 kbit/s
Input Capacitance	50 pF
Security	AES-128 Encryption, 3-pass mutual authentication, SUN message authentication, Random ID and encrypted UID, ECC-based Originality Signature
Anti-collision	Anti-collision algorithm, without interference from other tags in the vicinity
Common Criteria Certification	EAL4 for both Hardware and Software
Write Endurance	200k cycles
Data Retention Time	50 years

2.4 Additional Information

Operating Environment	-20~+50°C, 95% humidity
Application	Secure cryptocurrency wallets, product authentication, dynamic marketing, real-time customer interaction and access control

2.5 Packaging

Packing Format	Packed in box (210×100×70mm)
Packing Quantity	2000 pcs/box, G.W.:0.4kg



<https://www.rfidtag.com>

E-mail : [sales@rfidtag.com](mailto:sales@rfidtag.com)

Phone Number: +86-131-3958-0585

Singapore Office : 10 Science Park Road #03-17A, The Alpha, Singapore Science Park, Singapore 117684

Shenzhen Office : 33-408, Qianhai SZ-HK Fund Town, Nanshan, Shenzhen, China 518052

Shenzhen Factory : Q5, XingDao Industrial Park, LongGang, Bantian, Shenzhen, China 518129