

NXP NTAG® 424 DNA NFC Ring

AZRI-N424



Key Features

Operating Frequency
HF 13.56MHz

Chip Type
NXP NTAG® 424 DNA

International Standard
ISO/IEC 14443-A, ISO/IEC 7816-4,
NFC Forum Type 4

User Memory
416 bytes

UID
7-byte

1. Product Overview

This NFC Ring, powered by the advanced NTAG® 424 DNA chip, offers versatility in design with a range of premium materials and styles to match your preferences. Lightweight, comfortable, and stylish, it's ideal for secure access, contactless payments, and seamless information sharing.

2. Product Parameters

2.1 Physical Characteristics

SKU	AZRI-N424				
Ring Size (US)	No. 6 No. 7 No. 8 No. 9 No. 10 No. 11 No. 12 (For specific size, please check 3. How to choose the NFC ring size?)				
Material					
	Wood	Tungsten Steel + Zirconia Ceramic	Zirconia Ceramic + Epoxy	Zirconia Ceramic + Epoxy (Ammonite)	Zirconia Ceramic + Epoxy (Black Temperature Sensitivity)

2.2 Technical Parameters

Operating Frequency	13.56 MHz
Communication Protocol	ISO/IEC 14443-A, ISO/IEC 7816-4, NFC Forum Type 4
Operating Distance	Up to 10cm
Input Capacitance	50 pF

2.3 Chip Characteristics

Chip Manufacturer	NXP®
Chip Type	NTAG® 424 DNA
Data Transfer	106 kbit/s, 212 kbit/s, 424 kbit/s, and 848 kbit/s
User Memory	416 bytes
UID	7-byte
Authentication	Standard AES-128 cryptography
Advanced Data Protection	SUN message authentication
Common Criteria Certification	EAL4 for both Hardware and Software
Originality Signature	ECC-based
Anti-collision	Yes
Write Endurance	200,000 times
Data Retention	50 years

2.4 Additional Information

Storage Environment	+15°C to 25°C, 40% to 60%RH
Operating Environment	0°C to 40°C, 30% to 80%RH
Application	Access Control Attendance Management Contactless and Cashless Payments Information Sharing Health and Fitness Tracking, etc.

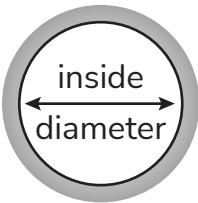
3. How to Choose the NFC Ring Size?

Method 1: Measure current ring (You can print this document on an A4 paper)

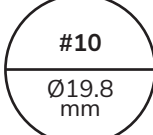
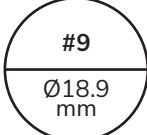
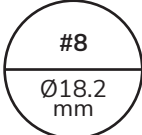
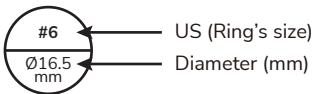
Steps 1: Take a ring that properly fits the intended finger.

Steps 2: Place the ring over the circles below. Match the inside edge of the ring to the circle nearest in size. This measurement refers to the inside diameter of the ring.

Steps 3: If the ring falls between two sizes, order the larger size.



The sizes of the rings below are in US.



Method 2: Measure finger size

To determine your size, we strongly advise that you measure the size of your finger rather than the size of your ring.

Note: Measure at least 3 times to get the average value to reduce errors.



Step 1: Take a thin string without elasticity or a paper strip.



Step 2: Tighten the string or paper, wrap it around the finger where the ring will be worn, and mark it.



Step 3: Use a ruler to measure the length of the string mark, which is the circumference of the ring you should choose.

Choose the right size for you:

Finger Circumference (mm)	Ring Size (US)	Diameter (mm)
53	6	16.5
56	7	17.3
59	8	18.2
62	9	18.9
65	10	19.8
68	11	20.7
71	12	21.3

*To ensure the ring fits comfortably, we suggest measuring your knuckle as well. We recommend selecting a size that will slide on and off your finger easily.



<https://www.rfidtag.com>

E-mail : 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