

# PRODUCT DATASHEET

## NFC SMART RINGS

ISO/IEC 14443 | 13.56 MHz

**Brand / OEM:**

Soochak Bharat Technologies Private Limited

### 1. Product Overview

Soochak Bharat **NFC Smart Rings** are wearable, contactless devices embedded with a secure NFC chip, enabling **tap-and-go authentication, access control, digital identity, and smart interactions**. Designed for comfort, durability, and style, these rings operate at **13.56 MHz** and are compatible with **NFC-enabled smartphones and readers**.

### 2. Key Features

- Compact, stylish wearable NFC form factor
- Hands-free access & authentication
- Waterproof & scratch-resistant design
- No battery required (passive NFC)
- Works with Android NFC phones & standard readers

### 3. Electrical & IC Specifications

Item	Specification
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NFC IC	NTAG213 / NTAG215 / NTAG216 / Feiju F8213 (Optional)
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Frequency **13.56 MHz**

Protocol ISO/IEC 14443 Type A

NFC Type NFC Forum Type 2

Operating Mode Passive

UID 7 Bytes (Read-Only)

User Memory 144 / 504 / 888 Bytes (Chip dependent)

Data Retention 10 Years

Write Endurance  $\geq$ 100,000 Cycles

Read Range 1–3 cm (Device dependent)

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## 4. Physical & Material Specifications

Parameter	Specification
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Product Type NFC Smart Ring

Material Options Ceramic / Resin / Stainless Steel

Finish Glossy / Matte

Color Options Black, White, Custom

Ring Sizes US 6–13 (Custom sizes available)

Width 6–8 mm

Thickness 2–3 mm

Weight ~5–8 g

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## 5. Environmental Specifications

Condition	Range
Operating Temperature	-10°C to +50°C
Storage Temperature	-20°C to +60°C
Waterproof Rating	IP68

Chemical Resistance      Sweat, water, mild chemicals

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## 6. Personalization & Customization

- Laser engraved logo / text
  - Custom colors & finishes
  - UID / Data pre-encoding
  - Application-specific memory layout
  - Branded packaging
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## 7. Applications

- Access Control & Smart Locks
  - Office & Campus Entry
  - Gym, Club & Resort Access
  - Digital Business Cards
  - Smart Home Automation
  - Event & VIP Access
  - Wearable Identity Solutions
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## 8. Compatibility

- Android NFC-enabled smartphones
- ISO/IEC 14443 compliant NFC readers
- Access control & authentication systems

(Note: iOS NFC behavior depends on application and OS support)

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## 9. Compliance & Standards

- ISO/IEC 14443 Type A

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- NFC Forum Compliant
  - RoHS & REACH Compliant
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## 10. Packaging Details

Item	Specification
Individual Packing	Premium Box
Bulk Packing	As per order quantity
Shelf Life	2 Years

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## 11. Handling & Usage Instructions

- Avoid strong impacts or dropping
  - Clean with soft cloth and mild soap
  - Do not resize or apply excessive force
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### Manufacturer / OEM

**Soochak Bharat Technologies Private Limited**

*Wearable NFC • Smart Identification • Digital Access Solutions*

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