



## NXP® MIFARE Classic® EV1 1K RFID Silicone Wristband



|                  |                                                                      |
|------------------|----------------------------------------------------------------------|
| SKU:             | RS-S50-SW                                                            |
| Chip Type:       | NXP® MIFARE Classic® EV1 1K                                          |
| Frequency:       | HF 13.56 MHz                                                         |
| Read Range:      | Up to 10 cm (depending on antenna geometry and reader configuration) |
| EEPROM:          | 125 bytes                                                            |
| UID Identifier:  | 7 bytes                                                              |
| NUID Identifier: | 4 bytes                                                              |
| Protocol:        | ISO/IEC 14443-A                                                      |
| Industry:        | Events, Healthcare                                                   |
| Applications:    | Access Control, Social Engagement, Membership Management             |

The RFID Silicone Wristband with NXP® MIFARE Classic® EV1 1K (S50) chip delivers a perfect combination of comfort, durability, and security for modern access control and event management applications. Equipped with the reliable MIFARE Classic® EV1 1K technology, it ensures fast and accurate data transmission, enabling seamless identification, cashless payments, and secure access across multiple environments.

Crafted from high-quality, waterproof, and skin-friendly silicone, this wristband is designed for long-term daily wear, even in challenging outdoor or aquatic settings. Ideal for theme parks, swimming pools, gyms, music festivals, and hotels, it enhances visitor convenience and operational efficiency. With customizable colors and branding options, the RFID Silicone Wristband offers not just a functional tool but also a powerful extension of your brand identity.

|                      |                       |                                                                                                                     |
|----------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------|
| Physical Information | Material              | Silicone                                                                                                            |
|                      | Characteristics       | Waterproof, high temperature resistant                                                                              |
|                      | Specification         | Adjustable: SW05, SW06, SW07, SW09, SW10-1C, SW10-2C, SW11-1C, SW11-2C<br>Non-adjustable: SW01/02, SW03, SW04, SW08 |
|                      | Operating Environment | -30°C~+220°C                                                                                                        |
|                      | Storage Environment   | +18°C~+28°C, 40%~60% RH                                                                                             |

|                       |                        |                                                                         |
|-----------------------|------------------------|-------------------------------------------------------------------------|
| Technical Information | Operating Frequency    | 13.56 MHz                                                               |
|                       | Communication Protocol | ISO/IEC 14443-A                                                         |
|                       | Communication Rate     | 106 kbit/s                                                              |
|                       | Transaction Time       | < 100 ms (including backup management)                                  |
|                       | Operating Distance     | Up to 10 cm<br>(depending on antenna geometry and reader configuration) |
|                       | Chip Type              | NXP® MIFARE Classic® EV1 4K                                             |
|                       | EEPROM                 | 125 bytes                                                               |
|                       | Data Integrity         | 16-bit CRC                                                              |
|                       | Anti-collision         | Support                                                                 |
|                       | NXP Originality Check  | Support                                                                 |
|                       | Random ID Support      | 7-byte UID                                                              |
|                       | NUID Identifier        | 4-byte                                                                  |
|                       | Security Features      | Mutual three pass authentication (ISO/IEC DIS 9798-2)                   |

\* Detailed specification of each model will be specified in the attached leaflet.

● **Performance and Illustrations:** Graphs and visuals are for reference only; actual product performance may vary depending on usage and environment. 
 ● **Storage and Handling Guidelines:** Follow standard ESD-safe storage and handling procedures to maintain product integrity and avoid damage. 
 ● **Product Updates and Revisions:** rfidbridge.com may change products, specs, or services at any time without prior notice. 
 ● **General Use Disclaimer:** Products are for general-purpose use and not intended for safety-critical or life-support applications. 
 ● **Legal Notice:** Information is believed accurate but may change. rfidbridge.com is not liable for use-related issues or outcomes.