



## NXP® MIFARE Ultralight® EV1 RFID Card

---



|               |                                                         |
|---------------|---------------------------------------------------------|
| SKU:          | RS-ULEV1-CR80                                           |
| Chip Type:    | NXP® MIFARE Ultralight® EV1                             |
| Frequency:    | HF 13.56 MHz                                            |
| EEPROM:       | 80 bytes / 164 bytes                                    |
| User Memory:  | 48 bytes / 128 bytes                                    |
| UID:          | 7 bytes                                                 |
| Read Range:   | Up to 10 cm                                             |
| Protocol:     | ISO/IEC 14443-A                                         |
| Industry:     | Events, Healthcare, Transportation, Business            |
| Applications: | Access Control, NFC, ETC Toll Payment, Vehicle Tracking |

The NXP® MIFARE Ultralight® EV1 CR80 RFID Card is a lightweight, cost-effective smart card designed for quick, reliable, and secure contactless interactions. Powered by the Ultralight® EV1 chip, it offers enhanced memory options, faster data handling, and built-in security features, making it ideal for high-volume applications such as public transportation, event ticketing, access passes, and loyalty programs.

Constructed in standard CR80 card format, it fits seamlessly into existing card systems and workflows. The card supports ISO/IEC 14443-A communication and delivers excellent read performance across a wide range of NFC and RFID readers. With its balance of affordability, durability, and dependable functionality, the MIFARE Ultralight® EV1 CR80 Card provides a smart upgrade for organizations seeking efficient and scalable contactless solutions.

|                      |                                             |                                                                                                                           |
|----------------------|---------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Physical Information | Material                                    | Black core PVC, White core PVC, White core PET(WEEE Directive√), White core ABS(WEEE Directive√), Wooden(WEEE Directive√) |
|                      | Card Size                                   | 85.6×54×0.88 mm                                                                                                           |
|                      | Net Weight                                  | About 5.8 g                                                                                                               |
|                      | Operating Environment                       | -20°C~+50°C, 20%~80% RH                                                                                                   |
|                      | Storage Environment                         | +18°C~+28°C, 40%~60% RH                                                                                                   |
|                      | Surface Treatment                           | Glossy/Matte/Frosted                                                                                                      |
|                      | Personalized Printing (NA for Wooden Cards) | Thermal Transfer/Dye Sublimation                                                                                          |
|                      | Customization Options (NA for Wooden Cards) | Pre-Printing, Barcode Printing, Embossing, Holograms, Signature Panels, UV Printing, Hot Stamping, Punch Holes            |
|                      | Care Tips                                   | 1. Avoid excessive bending<br>2. Keep away from water<br>3. Store in cool and dry place                                   |
| Cleaning Tips        |                                             | 1. Use a soft, dry cloth<br>2. Avoid harsh chemicals or abrasive cleaners<br>3. Remove stains immediately                 |

|                       |                                 |                                                                         |
|-----------------------|---------------------------------|-------------------------------------------------------------------------|
| Technical Information | Operating Frequency             | 13.56 MHz                                                               |
|                       | Communication Protocol          | ISO/IEC 14443-A                                                         |
|                       | Chip Type                       | NXP® MIFARE Ultralight® EV1                                             |
|                       | Data Transfer                   | 106 kbit/s                                                              |
|                       | Data Integrity                  | 16-bit CRC                                                              |
|                       | EEPROM                          | 80 bytes / 164 bytes                                                    |
|                       | User                            | 48 bytes / 128 bytes                                                    |
|                       | UID                             | 7 bytes                                                                 |
|                       | Read Range                      | Up to 10 cm<br>(depending on antenna geometry and reader configuration) |
|                       | True Anticollision              | Support                                                                 |
|                       | ECC Based Originality Signature | Support                                                                 |
|                       | Fast Counter Transaction        | < 10 ms                                                                 |
|                       | Typical Ticketing Transaction   | < 35 ms                                                                 |
|                       | Security Features               | 32-bit password protection                                              |

|                       |                  |                                                                               |
|-----------------------|------------------|-------------------------------------------------------------------------------|
| Packaging Information | Packing Format   | Single pieces, piece by piece                                                 |
|                       | Packing Quantity | 200 pcs/case, G.W. : 1.26 kg                                                  |
|                       | Packing Method   | 1000 pcs or 2000 pcs/carton                                                   |
|                       | Carton Dimension | 1000 pcs: 23x20x17cm (G.W.: 6.3 KG);<br>2000 pcs: 48x23x14cm (G.W.: 12.6 KG). |

● **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.