



NXP® MIFARE® DESFire® EV3 8K RFID Card



SKU:	RS-D83-CR80
Chip Type:	NXP® MIFARE® DESFire® EV3 8K
Frequency:	HF 13.56 MHz
Read Range:	Up to 10 cm
Protocol:	ISO/IEC 14443-A, NFC Forum Type 4, ISO/IEC 7816-4
Non-volatile Memory:	1000 bytes
UID:	7 bytes
Industry:	Events, Healthcare, Transportation
Applications:	Asset Tracking, ETC Toll Payment, Vehicle Tracking

The RFID Card with NXP® MIFARE® DESFire® EV3 8K chip delivers next-generation performance, offering enhanced security, faster transaction speeds, and expanded memory capacity for demanding smart card applications. Operating at 13.56 MHz and fully compliant with ISO/IEC 14443-A standards, it integrates AES-128 encryption, a secure unique NFC (SUN) message feature, and improved transaction efficiency for high-assurance access control and digital identity solutions.

Built with premium PVC material in a CR80 card format, this card ensures long-lasting durability and seamless compatibility with existing RFID infrastructures. It's ideal for corporate access systems, public transport, education campuses, secure payments, and event credentialing, providing organizations with a future-proof, high-security RFID solution that balances performance, reliability, and versatility.

Physical Information	Material	Black Core PVC, White Core PVC, White Core PET (WEEE Directive✓), White Core ABS (WEEE Directive✓), Wooden (WEEE Directive✓)
	Card Size	86×54×0.88 mm
	Operating Environment	-20°C~+50°C, 20%~80% RH
	Storage Environment	+18°C~+28°C, 40%~60% RH
	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 2. Keep away from water 3. Store in cool and dry place
	Cleaning Tips	1. Use a soft, dry cloth 2. Avoid harsh chemicals or abrasive cleaners 3. Remove stains immediately

Technical Information	Operating Frequency	13.56 MHz
	Communication Protocol	ISO/IEC 14443-A, NFC Forum Type 4, ISO/IEC 7816-4
	Chip Type	NXP® MIFARE® DESFire® EV3 8K
	Read Range	Up to 10 cm
	Data Transfer	848 kbit/s
	Random ID	7B UID or 4B RID
	Non-Volatile Memory	1000 bytes
	Common Criteria Certification	EAL5+(Hardware and Software)
	Mutual Three-Pass-Authentication	Support
	Data Authenticity	8-byte CMAC
	Proximity Check For Protection Against Relay Attacks	Support
	Originality Check For Proof Of Genuine NXP's Product	Support
	Security Features	DES, 3DES, AES-128

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: 23×20×17 cm (G.W.: 6.3 KG); 2000 pcs: 48×23×14 cm (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](https://www.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.
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