



NXP MIFARE® DESFire® EV3 2K RFID Card



SKU:	RS-D23-CR80
Chip Type:	NXP® MIFARE® DESFire® EV3 2K
Frequency:	HF 13.56 MHz
Read Range:	Up to 10 cm
Protocol:	ISO/IEC 14443-A, NFC Forum Type 4, ISO/IEC 7816-4
EEPROM:	2048 bytes
Industry:	Events, Healthcare, Transportation
Applications:	Access Control, Library, Vehicle Tracking, Public Transport, Ticketing

The NXP MIFARE® DESFire® EV3 2K is a compact, ISO/IEC 14443 -A compliant contactless smart card built for fast, dependable integration. Its 2 KB memory supports flexible, multi-application setups, making it ideal for use cases such as access control and public transport where space and performance matter.

Powered by the EV3 platform, it strengthens protection with AES encryption, mutual authentication, and robust data-integrity safeguards to prevent unauthorized access. The result is a secure, interoperable credential that delivers the right balance of compact design, strong security, and operational efficiency.

Physical Information	Material	Black Core PVC, White Core PVC, White Core PET (WEEE Directive✓), White Core ABS (WEEE Directive✓), Wooden (WEEE Directive✓)
	Card Size	85.5×54×0.88 mm
	Operating Environment	-20°C~+50°C, 20%~80% RH
	Storage Environment	+18°C~+28°C, 20%~80% RH
	Self-Printing Compatibility	The standard ID size(CR80, 85.6×54 mm/3.375"×2.125"), works with most retransfer printers
	Surface Treatment	Glossy, Matte or Frosted
	Printing	Thermal Transfer/Dye Sublimation
	Customization Options	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 2K
	Read Range	Up to 10 cm
	EEPROM	2048 bytes
	UID Memory	7B UID or 4B RID
	Reading Rate	106 kbit/s
	Security Features	DES, 2K3DES, 3K3DES, EAL5+, AES-128 crypto algorithms

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 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.