



NXP® MIFARE® DESFire® EV2 8K RFID Card



SKU:	RS-D82-CR80
Chip Type:	NXP® MIFARE® DESFire® EV2 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 CR80 with MIFARE® DESFire® EV2 8K chip offers top-tier security, speed, and storage capacity for advanced access control and smart identification systems. Operating at 13.56 MHz and compliant with ISO/IEC 14443-A standards, it delivers fast data transmission, multi-application support, and enhanced AES-128 encryption for secure transactions and identity verification.

Built from high-quality PVC and designed in the standard CR80 card format, this RFID card ensures durability and compatibility with most RFID readers and systems. Ideal for corporate access, transportation, campus solutions, cashless payment systems, and event management, the MIFARE® DESFire® EV2 8K card provides a powerful, future-ready solution for organizations requiring both security and scalability.

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® EV2 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
	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.
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