



SKU:	RS-D81-PVC-8654
Chip Type:	NXP® MIFARE® DESFire® EV1 8K
Frequency:	HF 13.56 MHz
EEPROM:	8K bytes
Protocol:	ISO/IEC 14443-A, ISO/IEC 7816-4, NFC Forum Type 4
Compliance:	WEEE Directive
Industry:	Healthcare, retail, hospitality, events
Applications:	Access control, NFC, social engagement

RFID Card NXP® MIFARE® DESFire® EV1 8K

This RFID card is equipped with the NXP® MIFARE® DESFire® EV1 8K chip, operating at HF 13.56 MHz with 8 KB of EEPROM memory and compliant with the ISO/IEC 14443-A, ISO/IEC 7816-4 and NFC Forum Type 4 standards. It supports secure, high-speed data transmission, making it ideal for access control, public transportation, and cashless payment applications.

It is available in various materials, including Black core PVC, White core PVC, and WEEE Directive-compliant PET, ABS, and eco-friendly wood. The card offers customizable surface finishes such as glossy, matte, or frosted, along with a variety of personalization options including thermal transfer printing, embossing, holograms, and more.

Physical Information	Material	Black core PVC, White core PVC, White core PET(WEEE Directive✓) White core ABS(WEEE Directive✓), Wooden(WEEE Directive✓)
	Size	85.6×54×0.88 mm(3.37"×2.125")
	Weight	About 5.8 g
	Surface Treatment	Glossy, matte or 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
	Operating Environment	0°C~+50°C, 20%~90% RH
	Storage Environment	+18°C~+28°C, 40%~60% RH
	Care Tips	1. Avoid excessive bending. 2. Keep away from water and collision. 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
	Protocol	ISO/IEC 14443-A, ISO/IEC 7816-4, NFC Forum Type 4
	Chip Type	NXP® MIFARE® DESFire® EV1 8K
	EEPROM	8K bytes
	Read Range	Up to 100 mm
	Security Features	Common Criteria Certification: EAL4+(Hardware and Software) Unique 7 bytes serial number for each device Optional "RANDOM" ID for enhance security and privacy Mutual three pass authentication Mutual authentication according to ISO/IEC 7816-4 1 card master key and up to 14 keys per application Hardware DES using 56/112/168 bit keys featuring key version, data authenticity by 8 byte CMAC Hardware AES using 128-bit keys featuring key version, data authenticity by 8 byte CMAC Data encryption on RF-channel Authentication on application level Hardware exception sensors Self-securing file system Backward compatibility to MF3ICD40: 4 byte MAC, CRC 16

Packaging Information	Packing Format	Single pieces, piece by piece
	Packing Method	Inner Packing: 200 pcs/case, G.W.: 1.26 kg Outer Packing: 5 cases/carton(1000 pcs) or 10 cases/carton(2000 pcs)
	Carton Dimension	1000 pcs: 23×20×17 cm 2000 pcs: 32.5×25×22.5 cm

● **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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