



EM Microelectronic® EM4200 RFID Card



SKU:	RS-EM42-CR80
Chip Type:	EM Microelectronic® EM4200
Frequency:	LF 125 KHz
ROM:	128 bits (64 and 96 bits option available)
Protocol:	ISO/IEC 11785
Industry:	Events, Healthcare, Business
Applications:	Access Control

The RFID Card Low Frequency 125 KHz IC EM4200 is a robust and cost-effective contactless smart card designed for reliable identification and access control applications. Operating at 125 KHz, it utilizes the EM Microelectronic® EM4200 chip, known for its high data integrity, long read range, and exceptional durability. The card is fully compatible with EM4100/EM4102 and EM4005/4105 communication protocols, ensuring easy integration into existing infrastructures without requiring additional configuration or reprogramming.

Built in the standard CR80 card format, the EM4200 RFID card features excellent resistance to environmental factors, making it ideal for access control, attendance tracking, logistics, and asset management. Its passive design requires no internal power source, ensuring long-term performance and maintenance-free operation. Whether for secure facility entry or automated system identification, the EM4200 125 kHz RFID card offers a dependable, flexible, and efficient solution for low-frequency RFID environments.

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 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
	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	125 KHz
	Communication Protocol	ISO/IEC 11785
	Chip Type	EM Microelectronic® EM4200
	ROM	128 bits (64 and 96 bits option available)
	Several Options Of Data Rate And Data Encoding	Manchester 32 and 64 RF clocks per bit Biphase 32 and 64 RF clocks per bit PSK 16 RF clocks per bit (subcarrier RF/2) FSK2 50RF clocks per bi
	Full Compatible	EM4100/4102 and EM4005/4105 communication protocols
	Security Features	128 bits unique code

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); 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.
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