



EM Microelectronic® EM4450 RFID Card



SKU:	RS-EM4450-CR80
Chip Type:	EM Microelectronic® EM4450
Frequency:	LF 125 KHz
EEPROM:	1K bit
Industry:	Access Control, Events, Transportation
Applications:	Ticketing, Access Control, Identification, Attendance system

The EM Microelectronic® EM4450 RFID Card combines durable construction with versatile RFID functionality, making it ideal for access control, identification, and data storage applications. Sized to CR80 standards, these cards support both blank and customized printing, ensuring compatibility with most RFID systems. Powered by the EM4450 CMOS integrated circuit, the card features 1K bit of EEPROM, allowing configurable memory areas, secure write/read protection, and a fixed laser-programmed serial number that makes each chip unique. The EM4450 also supports secure operations with a 32-bit password, which can be updated but never read, providing robust data protection for sensitive applications.

Engineered for reliability and ease of use, the EM4450 card transmits and receives data through amplitude modulation of the electromagnetic field, supporting commands for memory writing, password updates, reading specific memory areas, and logic resets. Its combination of fast read/write cycles and secure, configurable memory makes it suitable for hotel key cards, membership programs, time attendance systems, and other access management solutions. With professional-grade durability and flexible printing options, the EM4450 CR80 card delivers a scalable, high-performance RFID solution for organizations requiring secure and dependable card-based identification.

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 (3.4"×2.2")
	Operating Environment	-20°C~+50°C, 20%~80% RH
	Storage Environment	+18°C~+28°C, 20%~90% 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
	Chip Type	EM Microelectronic® EM4450
	EEPROM	1K bit
	Write Endurance	100,000 times
	Data Retention	10 years
	Security Feature	32 bit Password

Packaging Information	Packing Format	Single pieces, piece by piece
	Packing Quantity	200 pcs/case, G.W. : 1.3 kg
	Packing Method	1000 pcs or 2000 pcs/carton
	Carton Dimension	1000 pcs: 23×20×17 cm (G.W.: 7 KG); 2000 pcs: 48×23×14 cm (G.W.: 13 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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