



NXP® HITAG® S2048 RFID Card



SKU:	RS-S2048-CR80
Chip Type:	NXP® HITAG® S2048
Frequency:	LF 125 kHz
Protocol:	ISO/IEC 11784, ISO/IEC 11785
Total Memory:	2048 bits
UID:	32 bits
Industry:	Events, Healthcare, Retail
Applications:	Brand Protection, Tracking

The RFID Card CR80 with HITAG® S2048 chip offers reliable low-frequency (LF) performance, making it ideal for secure access control, time attendance, and asset identification applications. Operating at 125 kHz, this card provides stable data transmission, long read range, and excellent compatibility with existing RFID systems. Built with durable PVC material, it maintains consistent performance even under demanding environmental conditions.

Compliant with ISO/IEC 11784 and ISO/IEC 11785 standards, the HITAG® S2048 card supports password protection and flexible memory configurations for enhanced data security. Its standard CR80 size allows easy integration into existing card infrastructures, making it a trusted choice for corporate access systems, parking management, and membership authentication.

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
	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 11784, ISO/IEC 11785
	Chip Type	NXP® HITAG® S2048
	Total Memory	2048 bits
	Unique Identification Numer(UID)	32 bits
	Fast Anticollision Protocol For Inventory Tracking	100 Tags in 3.2 seconds
	Secure Memory Lock Functionality	Support
	Cyclic Redundancy Check(CRC)	Support
	Security Features	48 bits secret key based encrypted authentication
	TagFocus™ Mode	Support
	German Waste Management and Pigeon Race Standard	Support

Packaging Information	Packing Format	Single pieces, piece by piece
	Packing Quantity	200 pcs/case, G.W. : 1.5 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.: 14 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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