

HITAG 2 Card

The HITAG 2 card is a 125 kHz low-frequency card built on the NXP PCF7936 chip, used in access control, vehicle identification, parking and industrial systems. It supports password, crypto and read-only public modes. Send your reader type or a working card so the mode can be confirmed before production.

Specification

Item	HITAG 2 Card
Material	PVC, PET, PETG, ABS
Chip	HITAG 2
Frequency	125 kHz
Color	Customizable
Size	CR80 (85.5*54mm) or Custom
Reading distance	2-10cm depending on readers
Write Endurance	100, 000 times
Working Temperature	-40°C to 65°C
Data Retention Time	10 years
Printing Options	Silk-screen printing, CMYK full color, Pantone, digital printing, etc.
Crafts Available	number printing, Laser Engraving, DOD, Bar code, QR code, magnetic stripe, encoding, etc.

Memory and operating modes

Mode	How it works	Typical use
Password mode	The reader sends a 32-bit password; the transponder answers with its own password and grants read/write access to the pages allowed by the configuration.	Access control and industrial identification where a simple secret is enough
Crypto mode	Mutual authentication with a 48-bit secret key using the HITAG 2 stream cipher before data is exchanged.	Vehicle immobilisers and systems that need more than a UID
Public mode A	Read-only: the transponder continuously transmits pages 4 to 7 (128 bits), Manchester encoded, like an EM4100-style tag.	Long-range vehicle ID, gate readers
Public mode B	Read-only, ISO 11784/11785 animal identification format.	Livestock and animal tags
Public mode C	Read-only, compatible with PIT transponders (PCF793x).	Legacy systems

The HITAG family

	HITAG 1	HITAG 2	HITAG S	HITAG μ
Memory	2048 bits (64 pages × 4 bytes)	256 bits (8 pages × 4 bytes; 128-bit user data)	256 or 2048 bits (HITAG S256 / S2048)	Small, several sizes (from the 64-bit read-only HITAG μ RO64 upward)
Anti-collision	Yes (AC mode for long-range multi-tag)	No (HALT function for multi-tag handling)	Yes (fast: 100 tags in 3.2 s)	Yes (Reader Talks First with anti-collision)
Security	Mutual authentication, encrypted transmission	Password mode and crypto mode (48-bit key)	48-bit secret-key authentication, password protection	Read/write with page protection; no strong crypto
Frequency / standards	125 kHz	125 kHz; public modes A/B/C incl. ISO 11784/11785	100–150 kHz; ISO 11784/11785, ISO 18000-2	100–150 kHz; ISO 14223, ISO 11784/11785
Typical use	Industrial identification, older access systems	Immobilisers, long-range vehicle and driver ID, access	Inventory and animal tags needing anti-collision	Low-cost animal ID and small labels

Ordering

- Free standard samples; customised samples carry a setup fee.
- Standard lead time is 2–3 weeks.
- Quote-only pricing—send your quantity for a quotation.
- Printing, numbering and encoding options are available for the selected product and material.

Contact

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