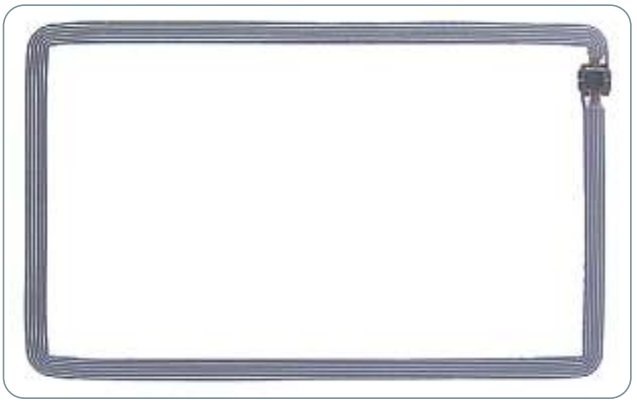
Legic®
Cards / Keyfobs



Utilization possibilities

Not only as single utilization but also for multiple applications, can also be utilized for example for access control, time recording, parking, sales automates or cashless payment in the canteen.
Difficult environmental conditions such as for example dampness, dirt or mechanical influences do not influence the dependability of the chip (refer to care instruction page).

Function

The Legic®-Chip built into the identity card body transfers the information contact-less between the reading device and the transponder. To activate the passive Legic®-Chip, the chip must be introduced into the electro-magnetic field of the transmitter antenna from a read/write station. The Legic®-Chip wins the required power from this process for the actual information exchange. The data can be read from the Legic®-Chip (reading cycle) of can be encoded onto the Legic®-Chip (writing cycle). Data transfer is implemented encrypted.
The pre-requirement for the utilization of the Legic®-Technology is a so-called IAM card (initiating card). The basic coding is registered on the initiated reading device being utilized. Without the initiation the Legic® cannot transfer any information. Only the so-called IAM card facilitates the delating and writing of a Legic®-transponder.
The storage size of the Legic® Chips can be optimally selected through the number and size of the selected segments, such as for example 256/1024/2048 Byte. Several segments can be programmed for different locations for example the access locations for the areas for access control or for additional utilization for example covering cash-less payment in the canteen area.

Print/refinement

Cards:
The identification card will be designed and produced according to the instructions and technical possibilities. The identification card can be printed both on the front and reverse in one or several colours. Additional safety characteristics such as for example geometrical printing or hologram are also possible. Other options are for example coding, numbering, or even personalization or embossing.
The optimal printing technology will be selected according to the print run and layout/colours, such as for example offset, screen, re-transfer or thermal sublimations/thermal transfer printing.

Keyfobs:
Laser engraving can be utilized for the production of for example for an optical numbering. A single or multiple colour printing with a logo or script is also possible. A photo printing underneath a transparent cover is also possible upon request.

Hybrid media (Multiple technologies)

The Hitag2 can naturally also be combined with other technologies within a medium. It must however be noted that same frequencies can lead to disruptions or even a complete loss of functionality capability for the individual technologies. Therefore multiple technologies within one medium working on the same frequencies are not recommended. Supplementary versions can for example be Legic®-, Mifare- or i-Code- or even the utilization of processor chips or a magnetic stripe.

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Technical information
Legic®

Characteristics	Card	Key rings		
		A	B	C
Material	PVC ABS with PVC PC with PVC* Overlay**	ABS plastic		
Colour	☐	***	****	***
		Each with a grey cover**		
Connections	laminated	Ultra sonically welded	pressed	pressed
Surface	High gloss/lusterless	lusterless	lusterless	lusterless
Formate	86 x 54 x ca. 0.76 mm	round	oval	round
	Special formats upon enquiry	Other construction formats upon enquiry		
Frequency	13.56 kHz			
Chip type	passive (without battery)			
Writing-/reading space	approximately 8 cm (Depending upon antenna and reading device)			
Storage medium	E²PROM (Read/write)			
Storage size Modulation	256 / 1024 / 2048 Byte			
Transfer rate	2.5 ms/write 25 ms			
Data storage lifetime	Minimum 10 years			
Delete/write cycles	approximately 300,000			
Storage functions	configurable			
Access	Read/write			
Safety	Read/write OR write protected OR red/write protected OR OTP-Mode			
Anti-collision protection	no			
Transaction time	Less than 100 ms			
Temperature area				

*ABS with PVC = high temperature mixture; in continuous utilization approximately 70 °C
**PC with PVC overlay = high temperature mixture, in continuous utilization approximately 100 °C
*** Other housing colours/other cover colours tone-in-tone upon enquiry

Other construction formats available in the delivery program.
The right to make technical changes is retained.

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