

# Contactless cards



LUX-IDENT's products

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A range of applications.

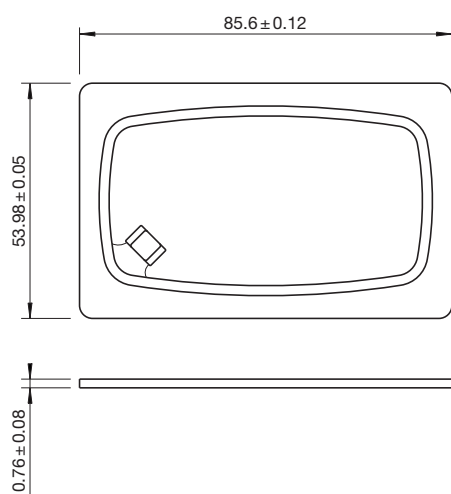
Contactless cards come in standard ISO format or clamshell format. Most of the ISO format cards are made from white PVC with a glossy surface, which allows the client to customize the cards through printing. A magnetic strip (HiCo, LoCo) can be added for multiusage cards.

Our contactless cards are available with an exceptionally wide variety of chips and each chip is optimized for ultimate readability. LUX-IDent also offers combi chip cards, cards with two chips on one card. Different combinations in low and high frequency are possible.

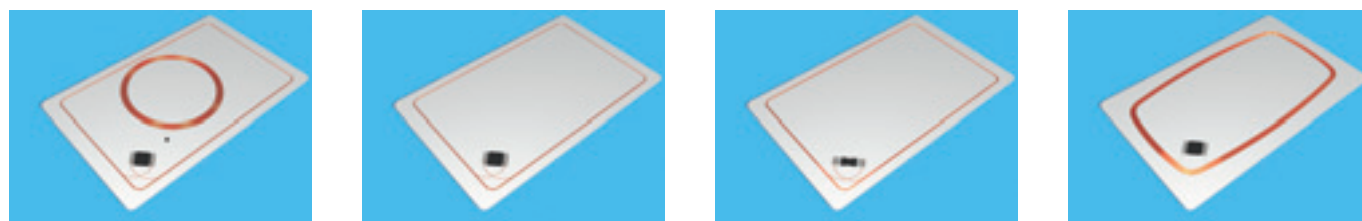
### Features

- Standard format ISO 7810, 7816
- Clamshell format also possible
- Matt or glossy surfaces
- With or without magnetic strip
- Operating temperature from  $-20^{\circ}\text{C}$  to  $50^{\circ}\text{C}$

### Dimensions



The drawing shows one of many antenna sizes/formats and chip positioning.



The pictures demonstrate different options how to position one or two contactless technologies in one card.

### Available chip technologies

Manufacturer frequency	Chip type
<b>EM Microelectronic</b>	
LF 125 kHz / 134.2 kHz	EM4102, EM4450
<b>NXP</b>	
LF 125 kHz / 134.2 kHz	Hitag 1, Hitag 2, Hitag S 256bit, Hitag S 2048bit
HF 13.56 MHz	Mifare: Ultralight, Ultralight C, Mini, Classic 1K, Classic 4K, Desfire 4K V.06, Desfire 2K EV1, Desfire 4K EV1, Desfire 8K EV1, Plus S 2K, Plus S 4K, Plus X 2K, Plus X 4K I-Code: SLI-L, SLI, SLI-S SmartMX, JCOP
UHF 840–960 MHz	UCODE G2XL, UCODE G2XM
<b>Infineon</b>	
HF 13.56 MHz	Mifare SLE66R35 1K
<b>Atmel</b>	
LF 125 kHz / 134.2 kHz	ATA5577
<b>Inside Secure</b>	
HF 13.56 MHz	Picopass 2K, 32K
<b>Legic</b>	
HF 13.56 MHz	Prime MIM256, Prime MIM1024 Advant: ATC128, ATC256, ATC1024, ATC2048, ATC4096

Other ICs are available upon request.