



# Prelaminated inlays Combi



LUX-IDent's products

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A range of applications.

An increasing demand for the use of two or even more different contactless chip technologies in one card has led to requests for processing prelaminated inlays consisting of various combinations. For example HF chip + LF chip in one card, or other combinations such as HF + HF, LF + LF, etc.

Prelaminated inlays Combi are suitable for use in the production of ISO standard combi cards. LUX-IDent uses a proprietary manufacturing process to produce its prelaminated inlays. Our inlays are very robust and boast unequalled torsion/bending characteristics, extreme durability and optimized read/write performance. The inlays have a completely flat finish and bring numerous benefits to card manufacturers. LUX-IDent's prepressed inlays are designed specifically with the card manufacturer in mind.

#### Features

- Very reliable and robust plastic package
- High reading distance optimized to each chip
- Materials: PVC, PETG, PC
- Colour: white or transparent
- Possibility of combining two and more different chip technologies in one prelaminated sheet
- Different sheet formats are available 1×5, 2×5, 3×6, 3×7, 3×8, 3×10, 4×10 up to 640×520 mm, others upon request

Our antenna design allows us (based on specific customer requests) to position an antenna on the sheet layout along the embedding of contact chip module without any interference from the RFID antenna. This is what we call the hybrid card, which combines contactless and contact chip technology into one card.

#### Example of applications

- physical access
- logical access
- public transport
- city card
- student card
- e-purse systems, etc.

#### Available chip technologies

Manufacturer frequency	Chip type
<b>EM Microelectronic</b>	
LF 125 kHz / 134.2 kHz	EM4102, EM4305, 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: SL1, 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, My-D: SRF55V02P, SRF55V10P, NFC SLE66R16P, NFC SLE66R32P
<b>Atmel</b>	
LF 125 kHz / 134.2 kHz	ATA5575M1, ATA5575M2, ATA5577, Q5
<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.