



Prelaminated inlays LF



LUX-IDent's products

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A range of applications.

Prelaminated inlays are suitable for use in the production of ISO standard cards. LUX-IDent uses a proprietary manufacturing process to produce its pre-laminated 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. The inlay is engineered to remove process difficulties whilst yielding an exceptional product. We make the card manufacturer's job easier without sacrificing quality.

Our pre-laminated inlay is essentially a semi-finished product, so that the card manufacturer merely needs to collate his printed sheets with the inlay and laminate the "sandwich".

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 pre-laminated 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, etc.

Available chip technologies

| Manufacturer frequency | Chip type |
|---------------------------|--|
| EM Microelectronic | |
| LF 125 kHz / 134.2 kHz | EM4102, EM4305, EM4450 |
| NXP | |
| 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 |
| Infineon | |
| HF 13.56 MHz | Mifare SLE66R35 1K, My-D: SRF55V02P, SRF55V10P, NFC SLE66R16P, NFC SLE66R32P |
| Atmel | |
| LF 125 kHz / 134.2 kHz | ATA5575M1, ATA5575M2, ATA5577, Q5 |
| Inside Secure | |
| HF 13.56 MHz | Picopass 2K, 32K |
| Legic | |
| HF 13.56 MHz | Prime MIM256, Prime MIM1024 Advant: ATC128, ATC256, ATC1024, ATC2048, ATC4096 |

Other ICs are available upon request.