Prelaminated inlays
Microprocessor

LUX®
part of HID

LUX-IDent s.r.o. – headquarters (production, sales, R & D)
Tovární 368, 563 01 Lanškroun, Czech Republic
Tel.: +420 465 352 500
e-mail: info@lux-ident.com
www.lux-ident.com

LUX-IDent Germany GmbH – branch office (sales, R & D)
Rudolf-Diesel-Ring 21, 82054 Sauerlach, Germany
Tel.: +49 8104 805 502
e-mail: smart-inlays@lux-ident.com
www.lux-ident.com

A range of applications.

Due to an increasing demand for chip performance, its functionality and security standards, contactless microprocessor chips with specific OS (Operating System) are used. Prelaminated inlays are suitable for use in the production of ISO standard cards.

There has been a clear trend in the market over the last few years towards the use of contactless technology employing more and more applications, where only the contact chip was typically used in the past.

We offer chips (incl. chip module and OS) which can be sourced from different suppliers (chip manufacturers and OS developers). We are also ready to process prelaminated inlays made out of consigned modules provided by our clients.

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.

Wire embedding and / or coil winding technologies are used depending on suitability.

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

Based on specific customer requests, our antenna design allows us 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
- e-ID projects

AVAILABLE CHIP TECHNOLOGIES

Manufacturer frequency	Chip type
NXP	
HF 13.56 MHz	SmartMX (JCOP)

Other ICs are available upon request.

2024-04-10