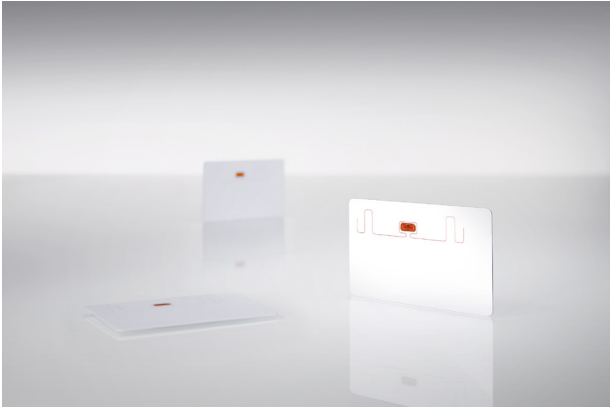




LINXENS
CONNECTING YOU TO SUCCESS

SMART-LOOP PRELAM®

Wire-embedded UHF Antenna Meets Inductive Coupling



LINXENS's state-of-the-art Direct Connect PRELAM® broadens the technology portfolio available for UHF eID document production. The company's new SMART-LOOP PRELAM®, based on patented wire-embedding and inductive coupling know-how, offers an extended read range with a very small and flexible antenna design. With a thickness of only 250µm, SMART-LOOP PRELAM® combines thinness with mechanical durability, a long lifetime and high performance.

The wire-embedded UHF PRELAM® uses inductive coupling technology and consists of two components: firstly, the chip and chip loop on a thin carrier bonded via flip-chip-assembly; secondly, the wire-embedded antenna that is connected to the chip loop via inductive coupling.

The lack of any intermetallic connection between chip and antenna makes it one of the most robust and reliable PRELAM® cards available in the market today, and enables advanced new solutions for eDrivers License and eResidence Permit cards.

Overview

Operating Frequency
860-960 MHz

Operating Temperature
-25°C to +50°C

Integrated Circuit (IC)
Impinj Monza 4D

Material
PC, PVC, PET-G, Composites

International Standards

- ISO 18000-6C
- EPC Class 1 Gen2

Application Area

- eDrivers License
- eResidence Permit
- Border Crossing

Features

- Wire-embedded Antenna
- Inductive Coupling

SMART-LOOP PRELAM®

Wire-embedded UHF Antenna Meets Inductive Coupling

| Antenna | Operating Frequency | Sheet format | Thickness | Available IC |
|---|---------------------|------------------|---------------|-----------------|
|  | 860-960 MHz | Max. 510 x 680mm | approx. 250µm | Impinj Monza 4D |

Additional memory, protocol and product configurations are available upon request.
Note: Pictures are for illustration only and are not to scale.