

Passport Inlays

Give your card a new identity

Smart Packaging Solutions presents the E-Passport platform with a new technology for more reliability and security.

What is the "E-Booster®" technology platform?

This technology is based on a specific electromagnetic coupling between an antenna module (E-Pastille®) and a specific antenna (E-Booster®).

E-Pastille® is a highly reliable, flexible and thin microelectronic packaging. E-Pastille® is totally flat, its thickness is uniform (250µm).

It can be easily integrated in plastic inlays, Teslin or paper and may be inserted inside the cover, inside the biographical data page or inside the centre

spread (flexible embedding).

The antenna material can be associated with copper, aluminum or screen printing antennas.

This solution is also ideal for Visa documents.

The toughest solution for durability and security.

Electronic Passports using this technology are very robust and high protected against damage and tampering (no possibility of using heat, freezing or chemical solvents to remove the layers without irreparable damage).

The E-Booster® incorporates security features that increase its protection against counterfeiting and falsification.

The usual interconnection between the chip module and

the antenna (by soldering, thermo-compression or electrically conductive adhesive) is neither reliable, nor durable.

With the E-Booster® platform, there is no more interconnection between the two elements (**high reliability**).

E-Pastille® & E-Booster® can be inserted in 2 different parts of the passport:

The cover page contains only the E-Pastille®. The E-Booster® is located in the biographical data page.

- The virgin booklet can only work once the data page is personalized => **tamper evidence**.
- The E-Pastille® cannot work without the E-Booster® on the passport application => **tamper evidence**.

PRODUCTS

Electronic Passport inlays

SPS offers Electronic Passport inlays including E-Booster® antennas and E-Pastille®.

with different materials, according to the customer's requirements (**flexible solutions**).

SPS's prelam is totally flat, very thin, flexible and ensures very high reliability with excellent electrical performances. The inlays can be manufactured

Products are fully compliant with ICAO specifications, ISO/IEC 14443.



Outstanding Features

- The highest reliability & tamper evidence solution for Electronic Passports
- Flexible solutions according to the customer's requirements
- Maximum reading distance up to 10cm
- High Speed Data processing (848 Kbps)
- Maximum reading distance up to 8 cm

Technical data

Standard:	Compliant : ISO/IEC 14443 A/B ICAO specifications
Frequency:	13.56 MHz
Chip type:	Compliant with main ICAO chips and Operating Systems
Inlay material:	Paper, Teslin, PC, Polyesters (others on demand)

