

Seos[®] Paper-Based Card

A High-Security, Printable, Temporary Physical Access Control Card Made With Paper

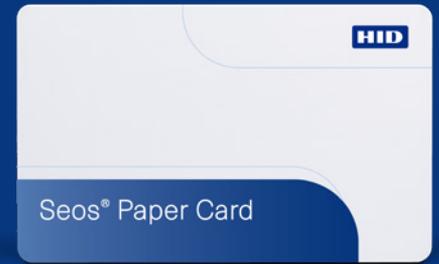
HID is proud to introduce the Seos paper-based card, an affordable physical access control card made with FSC certified paper that's ideal for high-security temporary physical access control applications. The Seos paper card not only provides advanced security technology, but also demonstrates your organization's commitment to the environment by reducing the use of petroleum-based plastics and PVC content.

The Seos paper card utilizes a bio-based PLA coating to support HID FARGO DTC (direct-to-card) printers providing low-cost, low-resolution quality for basic identification purposes that are more secure than printing QR codes that can be easily copied.

Seos is designed to meet the needs of a modern world, offering trusted security and user privacy while also providing flexibility to organizations as they transition to a more connected world. Seos credentials leverage modern cryptography and mutual authentication between the credential and reader for enhanced access control.

Physical security is crucial, but it's not just about protecting facilities. It's also about safeguarding a network of physical and digital systems, from vending machines to online portals. Seos was designed to easily extend beyond physical access control to applications such as secure printing, time and attendance, cashless vending and network log-ins via our partner network.

Make the switch to HID eco-friendly credentials; say goodbye to PVC and hello to materials that are kinder to our planet. Trust in HID's commitment to providing sustainable and secure access control solutions that meet the needs of our customers and protect the environment without compromising on security.



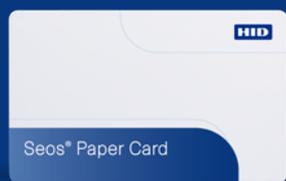
KEY BENEFITS:

- Made with FSC certified paper
- Printable using HID FARGO DTC Printers
- PVC-free
- High security Seos technology
- 8K-byte memory
- Programmable with Secure Identity Object[®] (SIO[®])



Example image printed with FARGO DTC1250e printer. See specification page for specific printer settings to support this card

Seos Paper-Based Card



FEATURES

- Made with FSC certified paper and a PLA overlay
- PVC-free
- AES-128 cryptographic algorithms for data protection
- Mutual authentication protocol with generation of diversified session key to protect each card session (using secure messaging)
- High resistance to common attacks (man-in-the-middle, replay attacks and others)

	Seos Part Description
Base Part Number	5706 (Seos 8K Paper Card)
Warranty	Due to the nature of paper, a warranty is not available for this card
Operating Frequency	13.56MHz
Protocol	ISO14443A-4
Communication Speed	Up to 848kbps
Memory and Endurance	in 100,000 cycles / 10 years
Security Features	Mutual authentication (compliant to ISO/IEC 24727-3), key diversification (based on NIST SP800-108 using AES 128), secure messaging (compliant to EN14890-1:2009). Session key derivation based on NIST SP 800-56A. Common Criteria (CC) EAL 5+ HW certified platform.
SIO Data Object Support	Yes (enabled by default)
HID Format Support	Yes (wrapped in SIO)
COMPATIBILITY AND PERFORMANCE¹	
Signo Readers	Up to 2.3" (6 cm)
iCLASS SE Readers	Up to 2" (5 cm)
multiCLASS SE Readers	Up to 1.6" (4 cm)
CP1000D	Write SIO and custom data (V option required)
iCLASS SE Biometric Reader	Template R/W
iCLASS SE RB25F Biometric Reader	Template R/W
OMNIKEY Readers and Embedded SE Devices²	Read SIO and R/W to Open Data or custom ADF
Printer Compatibility³	Compatible with HID FARGO DTC (direct-to-card printers). Adjust dye sub intensity to -20 to avoid ribbon breakage. Edge-to-edge printing is not supported (allow for a 5mm border). Not recommended for large areas of color printing. HID does not guarantee the support of other brands of DTC printer.
MECHANICAL, ENVIRONMENTAL AND COMPLIANCE	
Body Construction	FSC certified paper with bio-based plastic overlay
Environmental Certification	RoHS, China RoHS, REACH, halogen free
Weight	~ 0.19 Oz (5.5g)
Dimensions	Length 85.6mm +/- 0.3mm (3.37 in +/- 0.012 in), Width x 53.98mm +/- 0.25mm (2.125 in +/- 0.01 in), Thickness 0.78mm +/- 0.08mm (0.037 +/- 0.003) ³
Operating Temperature	-35°C to +50°C (-31°F to +122°F)
Storage Temperature	-35°C to +50°C (-31°F to +122°F), tested for 100hrs.
Humidity	Due to the nature of paper, avoid exposure or storage in high levels of humidity
Handling Guidelines	Do not bend, immerse in water or expose to cleaning agents. This card is designed for temporary/short-term use only.

¹ HID testing occurs in open air. Some environmental conditions, including metallic mounting surfaces, can significantly degrade read range and performance; plastic or ferrite spacers are recommended to improve performance on metallic mounting surfaces. Spacers for iCLASS SE readers are available at hidglobal.com.

² See logical access HTOG for Seos compatible OMNIKEY products and embedded devices.

³ The Seos paper card has been tested with Fargo DTC printers; we cannot guarantee compatibility with other brands of printer. When using HID FARGO printers, adjust dye-sub intensity to -20 to avoid breaking the ribbon. Further adjustment may be required depending on the number of cards printed or ambient temperature.



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2025-05-08-pacs-seos-paper-card-ds-en PLT-07863

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