

Seos[®] Bamboo Card

A highly secure physical access control card made with sustainably sourced bamboo.



As the world becomes more environmentally conscious, it's important to choose products that align with your organization's commitment to sustainability. That's why HID is proud to introduce the Seos bamboo card, a secure access control credential made with sustainably sourced bamboo, certified by the Forestry Stewardship Commission (FSC).

The Seos bamboo card not only provides advanced security technology but also demonstrates your organization's commitment to the environment. Bamboo material is durable and provides a visual statement, making it the ideal choice for organizations looking to make a positive impact on the environment without sacrificing security.

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 to ensure reliable and secure access control. In fact, Seos has received TÜVIT Seal 5 certification for extra peace of mind.

Physical security is crucial, but it's not just about protecting facilities. It's 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 logins.

In addition to providing advanced security technology, Seos Bamboo helps your organization reach its Net Zero targets by minimizing the carbon footprint of your access control system. By choosing Seos Bamboo, you're not only investing in advanced security technology, but also in a sustainable future for your organization and the planet.

Make the switch to Seos Bamboo; say goodbye to PVC and hello to a more sustainable future. Trust in HID's commitment to providing sustainable and secure access control solutions that meet the needs of our customers and protect the environment.



KEY BENEFITS:

- Made With Sustainable Material
- Contains 73% less plastic than traditional Seos cards
- Natural, Unique Finish
- PVC Free
- Slot-Punched
- High Durability
- Seos Technology
- 8K-Byte memory
- Programmable with Secure Identity Object[®] (SIO[®])

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FEATURES

- Made with FSC certified bamboo
- AES-128 cryptographic algorithms for data protection
- TÜViT Certified
- Mutual authentication protocol with generation of diversified session key to protect each card session (using secure messaging)
- High resistance to common attacks (replay attacks and others)



	Seos Bamboo Card
Base Part Number	5746 (8K Memory)
Warranty	3 Years
Operating Frequency	13.56MHz
Protocol	ISO14443A-4
Communication Speed	Up to 848kbps
Memory & Endurance	8 Kbytes (min 500k cycles/10 years)
Security Features	Mutual authentication (compliant to ISO/IEC 24727-3) based on AES 128 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
SIO Data Object Support	Yes (enabled by default)
HID Format Support	Yes (wrapped in SIO)
COMPATIBILITY AND PERFORMANCE ¹	
Signo Readers	Up to 7cm (2.75")
iCLASS SE Readers	Up to 6cm (2.34")
multiCLASS SE Readers	Up to 3cm (1.18")
CP1000D	Read/Write (SIO) / R/W to Custom ADF
iCLASS SE Biometric Reader	Template R/W
ICLASS SE RB25F Biometric Reader	Template R/W
Omnikey Readers ²	Read SIO and R/W to Open Data or Custom ADF
Embedded SE Devices ³	Read SIO and R/W to Open Data or Custom ADF
MECHANICAL, ENVIRONMENTAL AND COMPLIANCE	
Construction ^{4,5}	Bamboo (85%), Thermoplastic Polyurethane (14%), Other (1%)
Bamboo Certification	Made with FSC certified bamboo
Environmental Certification	RoHS, China RoHS, REACH, Halogen Free
Weight	~6g
Product Dimensions	Length: 85.6mm +/- 0.25mm (3.37" +/- 0.01")
Operating Temperature	-35°C to +50°C (-31°F to +122°F)
Storage Temperature	-35°C to +50°C (-31°F to +122°F)
Humidity	Tested for up to 1hr at 95%
Slot Punch	Yes (maximum pull force of 60 N)
Chemical Resistance	24 h salt water (5 %), 24 h sugared water (10 %), 24 h artificial perspiration
Handling Guidance	Bamboo is a natural wood, follow the below handling guidance: • Avoid prolonged use and storage in high humidity environments. • Do not submerge in water (If the card does become wet, dry at room temperature.) • Do not bend. • Do not over stress the slot punch.



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Part of ASSA ABLOY

¹HID Global testing occurs in open air. Some environmental conditions, including metallic mounting surface, 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.

²Read performance is dependent on antenna design and environment.

³See logical access HTOG for Seos compatible Omnikey products.

⁴Bamboo is a natural material, variations in colour and texture will occur. Layers are bonded with Thermoplastic Polyurethane (TPU)

⁵Calculated by Volume