



AVENTRA
SIMPLY SECURE

OUR PRODUCTS
03 / 2026

MyEID PKI Smart Card

MyEID

Secure authentication and data security,
all in one compact package.

Introduction

Today, a significant share of critical data resides in the cloud, making strong authentication more important than ever. Usernames and passwords alone are no longer secure enough. Without multi-factor authentication, a single successful phishing attack can compromise an entire system.

The PKI-based MyEID smart card is a secure and reliable solution for strong authentication and electronic signing – for both people and IoT devices. MyEID is currently the only Nordic smart card that has received the renowned CC EAL4+ and eIDAS certifications.

MyEID PKI Smart Card

MyEID is a secure and reliable solution designed for strong authentication and digital signing, suitable for individuals and IoT devices. A digital signature ensures the authenticity, integrity, and non-repudiation of information, as it generates indisputable proof of the signature or message transmission.

The smart card utilises Public Key Infrastructure (PKI) and operates in compliance with international standards, allowing seamless integration into our customers' existing systems when needed.



Certified security

MyEID is CC EAL4+ and eIDAS certified, ensuring it meets the highest security standards.



International standards

The MyEID smart card complies with key international standards, ensuring its compatibility with systems and devices.



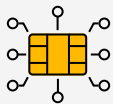
Strong authentication and login

MyEID is an efficient solution for strong two-factor authentication. It can be used for logging into workstations, websites, and other systems with high security requirements. It is also suitable for securing IoT devices.



Digital signing

The card can also be used for secure digital signing. A digital signature ensures the authenticity and integrity of the information.



Public Key Infrastructure

MyEID utilizes PKI (Public Key Infrastructure), a widely used and flexible method for managing electronic security.



Customized design

MyEID is available as a contact, hybrid, or dual-interface smart card, as well as in a SIM form factor. The card's design can be tailored to match your brand identity.

MyEID is currently the only Nordic smart card to earn the prestigious CC EAL4+ and eIDAS certifications. This ensures that we meet top-level security requirements both today and in the future.

Key features

MyEID keeps your private keys safe with advanced protection mechanisms. This makes it a secure solution for authentication, encryption and digital signing.

MyEID includes all the basic functionality of a Public Key Infrastructure (PKI) token specified in the most common international PKI standards, such as ISO 7816-15. The key features of MyEID are RSA and Elliptic Curve Cryptography, symmetric encryption with AES, advanced file system and command interface. MyEID supports the PIV command interface. When activated, the card appears as a PIV card. MyEID native interface and the PIV interface share the same data and file structure.

MyEID supports secure messaging as defined in the PIV Card Specification. PIN codes can be transmitted and private keys imported using a secure channel. Besides normal alphanumeric PIN codes, MyEID supports challenge/response PINs.

Java Card technology

MyEID is based on Java Card technology. The Java Card operating system runs on a security microcontroller designed for tamper-resistance and efficient execution of cryptographic algorithms. The MyEID applet, developed by Aventura, provides the interface for applications to use the cryptographic functions and implements a file system compliant with ISO 7816 standards.

Certified for Windows

MyEID PKI Smart Card and MyEID Minidriver have been certified by Microsoft as compatible with Windows 11. The minidriver is available in Windows Update and at Aventura's web site.

Card body

MyEID cards are available in two form factors: standard and SIM sized. The card material is PVC, making it suitable for visual personalisation using thermal transfer or dye sublimation printers. Other materials are available on request. Customer specific layouts can be delivered in offset and silk screen printing. Optional features include magnetic stripe, signature panel, holograms, security printing, etc.

Additional tools and services

Aventra has developed an extensive portfolio of software products to facilitate the use and maintenance of the MyEID card, including:

- **MyEID Minidriver:** a Microsoft Certified Windows Smart Card Minidriver
- **MyEID Minidriver Utility:** a tool for initialising and managing MyEID cards
- **MyEID Editor:** a versatile card manipulation tool for advanced users
- **Active Process Manager:** for automating your card issuance process and integrating it with your systems such as HR and IAM
- **ActiveCMS:** a web based IAM and card management system with a configurable work flow

Separate brochures are available on most of the products above. PKCS#11 interface is available with the open source OpenSC toolkit/middleware.

Aventra can also offer professional personalisation and lettershop services. MyEID cards can be personalised both visually and electrically according to customer specifications.

User guidance is available at [Aventra's web site](#)

Technical details

Common features

- 2048 - 4096 bit RSA cryptographic operations with on card key generation
- 256 - 521 bit ECC operations with on card key generation on NIST P and Brainpool curves.
- Secure random number generator (FIPS 140-3)
- AES symmetric encryption algorithm with 128, 192 and 256 bit key lengths
- PKCS#1 1.5, PSS and OAEP padding algorithms

Supported standards and specifications

- ISO/IEC 7816-1 to 7816-9, 7816-15
- PKCS#7, #11, #12, and #15
- FINEID S4-1 and S4-2
- Smart Card Minidriver Specification v7.07
- NIST SP 800-73-5 (PIV Card Specifications)

Other features

- 150 – 200 kB EEPROM memory
- Dual Interface version supports ISO/IEC 14443 T=CL with optional Mifare™ DESFire EV2 or Mifare™ Plus emulation.

Platform

- Java Card™ 3.0.5 with Global Platform 2.3
- NXP JCOP 4 P71, SmartMX3 Family

Wireless technology (optional)

- ISO 14443 A + B (Mifare® DESFire, Mifare® Classic)
- ISO 15693, ICode, Legic
- More options upon request

Compatible 3rd party software

- Cross-platform smart card library OpenSC <https://github.com/OpenSC/OpenSC/wiki>
- Versasec vSEC:CMS
- Fujitsu mPollux DigiSign™
- Large number of software products that support Microsoft Cryptography API: Next Generation (CNG) or PKCS#11 Token Interface

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