

# eToken PRO SmartCard Specifications

Operating systems	Windows 9x, Windows ME, Windows NT 4.0, Windows 2000, Windows XP
Certifications & standards	PKCS#11 v2.01, CAPI (Microsoft Crypto API), Siemens/Infineon APDU commands PC/SC, X.509 v3 certificate storage, SSL v3, IPSec/IKE
Models (by memory size)	32k
On board security algorithms	RSA 1024-bit, DES, 3DES, SHA1
SmartCard chip security level	ITSEC LE4 SmartCard security certification (Infineon)
Speed	RSA 1024 bit signature approx. 1 second RSA 1024 bit key generation approx. 11 seconds
ISO specification support	Support for ISO 7816 1 to 4 specifications
Memory data retention	At least 10 years
Memory cell rewrites	At least 500,000

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# eToken™

YOUR KEY TO eSECURITY

**PRO SmartCard:  
Advanced PKI  
Solution**



**Aladdin**  
SECURING THE GLOBAL VILLAGE

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SECURING THE GLOBAL VILLAGE

# eToken PRO SmartCard - The ultimate solution for securing your networks and eBusiness solutions, in a traditional SmartCard form factor.

eToken PRO SmartCard offers strong authentication and guaranteed non-repudiation for sensitive applications such as eBanking, stock trading, eCommerce and financial transactions.

eToken PRO's SmartCard secure, on-board RSA 1024-bit key operations enable seamless integration into Public Key Infrastructure (PKI) architectures. eToken PRO SmartCard can generate and store users' personal credentials such as private keys, passwords and digital certificates, inside the protected environment of the SmartCard chip itself. Users' private keys never leave the token.

eToken PRO SmartCard offers both two-factor and two-way authentication, using advanced cryptographic SmartCard technology. With its advanced onboard cryptographic processors, its ITSEC LE4 level security certification and its physical tamper-evident and water-resistant casing, the eToken is ideal for your corporate network and eBusiness security needs.

## Features

- Public key (PKI) technology support, with on-board 1024-bit PKI key generation.
- On-board RSA 1024-bit authentication & digital signing.
- Highly secure, logical & physical SmartCard level security, ITSEC LE4 Certified.
- Standard Crypto API connectivity.
- Secure storage and robust file system.
- Robust Plug-and-Play connectivity to mainstream PKI and security applications.

## Benefits

- Non-repudiation using advanced PKI digital signing technology: data is signed on the SmartCard chip inside the eToken, away from the hostile PC environment.
- On-board PKI generation: private keys are never exposed outside the eToken.
- No need for special development or integration work: eToken Enterprise supports standard security interfaces and a wide range of security clients.
- Flexible development tools for seamless integration with third party applications.
- Two-factor authentication: requires the eToken itself, together with the eToken password.
- Secure storage of users' credentials, keys and sensitive information.
- Private labeling and color options for brand enhancement.

## Enabled Security Services & Applications

- Online financial services: authentication and transaction signing for e-banking and stock trading applications.
- Extranet/Intranet access.
- Online government services: citizen information, vehicle registration, tax returns and healthcare.
- eCommerce B2B & B2C services: authentication and transaction signing for eCommerce applications.
- VPN solutions: two-factor authentication.
- Remote Access Server (RAS) authentication.
- Secured network logon.
- Secured email communications; encryption & signing.
- PC Security: boot protection & file encryption.
- ID cards.

## How credible is your digital signature?

Authentication – particularly digital signatures created with a software-based private key – can potentially be compromised.

Relying on a digital signature created in a software environment does not guarantee that the signature was created by the legitimate owner.

eToken PRO SmartCard is designed to prevent any unauthorized access or copying of users' private keys, even if the password is compromised in the PC environment. More importantly, the actual signature is created inside the eToken - a fully secure environment.

eToken PRO SmartCard is the ideal device for signing valued transactions requiring absolute proof and guaranteed non-repudiation.



## Key Application Support



**Network Security Clients:**  
Windows 2000 SmartCard and NT Novel network logon, Check Point VPN client, Cisco VPN client, RAS Dialup / RADIUS. Also support for various PC security and file encryption applications.



**PKI and CA Support:**  
Baltimore, Entrust, Microsoft, VeriSign, DST, RSA Keon, and others.



**Email Clients:** Microsoft Outlook/Outlook Express & Internet Explorer, Netscape Messenger.



**eBusiness Security Clients:**  
Web Browser SSL v3 interoperability: Microsoft Internet Explorer public key authentication, Netscape Navigator public key authentication and signing, WAC Authentication. Support for various Solution partners' communication & encryption applications.

**For a full list of eToken Solution Partners go to:**  
<http://www.ealaddin.com/partners/solutions>

