



UniToken[®] PRO

The first driverless Smart Card based token in the world

PROTECT YOUR DATA WITH RSA 2048-BIT ENCRYPTION
PKI APPLICATIONS
ONBOARD ENCRYPTION

High-performance Smart Card Based Device

UniToken PRO is based on advanced 32-bit smart card technology, significantly increasing the difficulty of duplicating credentials. Although RSA encryption is computationally intensive, the smart card based token is optimized to generate RSA encryption key pairs quickly, enabling sophisticated security with minimal hassle and effort.

Smart-Card Based Device

UniToken is based on an advanced form of smart card, the main benefit from which is security. In theory, no security hardware device is un-crackable. But for such a sophisticated kernel component, it is extremely difficult to duplicate the hardware key, let alone the software or credentials stored in it. Even though the hardware key can be duplicated, UniToken further provides several other secure guarantees to protect the software or secure data. The sleep mode of the smart-card based device also makes it an energy-saving application.

Supports AES, DES, 3DS, MD5 and SHA-1

UniToken PRO supports several standardised encryption algorithms including

AES, DES, 3DES, and hashing algorithms MD5 and SHA-1. These algorithms are widely adopted in the industry and have undergone through a rigorous standardization processes to ensure that they meet the upmost specifications of data security, both of which the UniTokens hardware and APIs support development on.

On-board Data Encryption

Typically, the encryption and decryption process of data uses the local resources of the performing computer; however, this may not be secure and can be susceptible to malicious tampering. On-board encryption isolates the process from the local computer entirely, eliminating any risk of vulnerabilities of undertaking the process locally. Moreover, all communication between the computer and the UniToken device is encrypted, thwarting interception attempts.

Support for Middleware

UniToken is designed to be compatible with several security standards, of which supported are MS-CAPI and PKCS#11, two collective standards for security products in the industry. UniTokens APIs enables trouble free integration with MS-CAPI and PKCS#11 compliant software.

Features	UniToken [®] PRO	UniToken [®] Drive	UniToken [®] CCID
CCID			✓
Secure Mass Storage		✓	
On-demand Partition	✓	✓	✓
Smart-card Based	✓	✓	✓
Onboard Encryption	✓	✓	✓
PKCS#11 Supported	✓	✓	✓
MS-CAPI Supported	✓	✓	✓
X. 509 Certificate Supported	✓	✓	✓
Globally Unique Hardware ID	✓	✓	✓
Customized Token Name	✓	✓	✓
3-Level Permission Management	✓	✓	✓
Customization Service	✓	✓	✓
Secure Memory	✓	✓	✓

Smart Card Based Hardware

UniToken PRO utilizes smart card technology, greatly increasing the sophistication and security of the device.

High Speed

Processing speed is a key indicator for any computing device. UniToken® PRO has an embedded 32-bit smart card. The high-performance smart card enables the complicated and time-consuming RSA algorithm to be completed in a reasonably short time. This not only saves customers much waiting time but also ensures the security of the encrypting process.

Perfect Compatibility

With fewer parts integrated inside, less compatibility problems will arise and less attention is required for it. It is safe to say that the smart card based UniToken®CCID is more reliable and stable than other devices.

Sophisticated Design

Unlike a micro control unit, a smart card is sophisticated and based on an advanced dedicated technology. It is extremely difficult for hackers to duplicate the hardware key, let alone the software or credentials stored within it.





Low Energy Consumption

During processes that are computationally intensive, heat tends to be an expected and unavoidable by-product. The less efficient the process, the higher energy consumption the process draws, and subsequently more heat produced. UniToken is specifically designed to address the issue of heat production with fewer integrated parts requiring less energy consumption. Furthermore, UniToken®PRO automatically reverts to sleep mode when inactive, saving energy consumption and overall helping reduce carbon emissions.

Robust yet Attractive Build

UniToken®PRO is protected by a rugged metal casing, safeguarding the hardware and its contents from physical damage and wear. The color of the device's casing can be customized based upon the desires of the user from a wide selection of the color palette. Our laser etching technology can also mark your logo onto the case, keeping your UniToken unique to your company.

CUSTOMIZATION SERVICE

	Logo Customization	With a customer specific logo, you can get company specific branding according to your corporate identity and improve the recognition of your product.
	Case Options	Metal case with your own color, logo and a unique serial number.
	Color Options	Any color in the color palette is available for the case customization.
	Device Naming Service	With the device naming service, you can get company specific branding according to your corporate identity and improve the recognition of your product.

TECHNICAL SPECIFICATIONS

Capacity	Onboard capacity: 256 KB in total
Dimensions	57 mm * 16 mm * 8 mm
Weight	9 grams
Temperature	
Operating	0 °C, +70 °C
Storage	-10 °C, +85 °C
Humidity Rate	0-70% without condensation
Min. Operating Voltage	5V
Hardware	Human interface device
Operating System Compatibility	Windows 2000, XP, 2003, Vista, 7, 8, Server 2008, 2010 and Linux (both 32 and 64 bits)
Hardware Encryption	
PKI	PKCS#11, MS-CAPI
Onboard Encryption Algorithms	2048-bit RSA 1024-bit RSA 128-bit AES 192-bit AES 64-bit DES 64-bit TDES
Onboard Hashing	160-bit SHA



About SecuTech

SecuTech is a global leader in providing strong authentication and software licensing management solutions for Fortune 500 global corporations and government agencies. SecuTech's comprehensive solutions focus from the protection of intellectual property, to assorted strong USB, TRRS and Apple Dock PKI authentication solutions across desktops and mobile platforms. Hundreds of customers, including commercial enterprises and government agencies have chosen SecuTech's solutions and products to control and protect access to invaluable data.

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SecuTech www.eSecuTech.com

North America
1250 Boulevard René-Lévesque Ouest
#2200, Montreal, QC, H3B 4W8, Canada
T: +1-888-259-5825
F: +1-888-259-5825 ext.0
E: INFO@eSecuTech.com

China
Level 12, #67 Bei Si Huan Xi Lu,
Beijing, China, 100080
T: +8610-8288 8834
F: +8610-8288 8834
E: CN@eSecuTech.com

APAC
Suite 5.14, 32 Delhi Rd, North Ryde,
NSW, 2113, Australia
T: 00612-9888 6185
F: 00612-9888 6185
E: AUS@eSecuTech.com

EMEA
4 Cours Bayard 69002 Lyon,
France
T/F: +33-042-600-2810
M: +33-060-939 6463
E: Europe@eSecuTech.com