

# DIGIPASS® 860

For banks and other organizations who need strong user authentication, digital signature functionality and hassle free remote user authentication, DIGIPASS 860 is an hybrid security device that supports both PKI and one-time password generation in one single product. DIGIPASS 860 is based upon 'state-of-the-art' technology and offers additional added value to the user.

DIGIPASS 860 is a hybrid security device enabling strong two factor authentication based upon the knowledge of a password or PIN and the possession of secrets stored in the products. DIGIPASS 860 offers both DIGIPASS one-time passwords generation and PKI capabilities in one single device.

The DIGIPASS one-time password generation provides strong, hassle free, remote user authentication.

The PKI functionality provides document signing; strong authentication against PKI enable software systems (operating systems, virtual private networks, applications); as well as e-mail, file and disk encryption.

**All DIGIPASS strong authentication products can be deployed concurrently to match your company's specific requirements.**



## FUNCTIONS

- Document authentication through the generation and validation of digital signatures
- Strong user authentication against PKI enabled software systems providing single sign-on functionality
- Strong remote user authentication through the generation of one-time passwords

## FEATURES

- Secure storage of certificates, credentials, encryption keys, strong static passwords and user data (memory stick)
- On-board generation of PKI key sets
- E-mail, file and disk encryption
- PKI functionality based upon highly secure smart card technology

## BENEFITS

- Support of both one-time password generation and PKI DIGIPASS in one single device
- 'State-of-the-art' technology and highly secure: leveraging VASCO DIGIPASS technology and Infineon smart card technology
- Added value for users: memory stick functionality, file & disk encryption
- Involves minimal IT effort and maintenance
- Fully customizable (logo, color)



### THE PRODUCT

DIGIPASS 860 comes with a protective cap; PKI middleware; device driver; installation software and documentation (manual and reference guide).



### INSTALLATION

DIGIPASS 860 can be easily installed and integrated on the user's PC, through an easy to use installation wizard.

### USAGE

Users simply plug the DIGIPASS 860 into a standard USB port on the PC and enter their password or PIN for workstation security and access to PKI enabled software systems, providing single sign-on functionality. Compliancy with various industry standards ensures interoperability within the Microsoft Windows domain as well as wide range of applications such as Microsoft Internet Explorer, Microsoft Outlook, Lotus Notes and Adobe Acrobat.

For hassle free remote user authentication to web-applications or telephone based services (telephone banking), the DIGIPASS 860 can be used in the unconnected mode. The user presses the button on the DIGIPASS 860 which generates a new one-time password which is shown on the display. This one-time password should be provided to the application for validation.

### TECHNICAL SPECIFICATIONS

#### PHYSICAL CHARACTERISTICS

- Dimensions (lwxh): 69,6 mm x 26,6 mm x 13,3 mm
- Weight: 22,3 grams (including protective cap)
- Logo area (lwx): 11,7 mm x 3,4 mm

#### USER INTERFACE

- One button key-pad
- 8 Character numeric display

#### PKI – SECTION

- Key generation: 1024 bit RSA key pair
- X.509 v3 certificates and secure key storage
- PIN based private key protection
- Crypto data transfer rate: 64Kbps
- RSA signature: 2048 bit
- Crypto processor: 32 KB or 64 KB
- ITSEC E4 High certified, FIPS 140-2 level 1 and 2
- Crypto processor available in 3 editions: 32KByte, 64KByte and 32KByte FIPS certified

#### OTP – SECTION

- DIGIPASS algorithm support (time and/or event based)
- OATH algorithm support (option)

#### MEMORY

- Memory stick: 128KB/256KB/512KB/1GB/2GB

#### OS SUPPORT

- Microsoft Windows 98/ME/2000/XP and Linux

#### POWER MANAGEMENT

- Connected mode: via USB bus
- OTP mode: via non replaceable batteries
- Avg. battery life time: 5 years

#### STANDARDS AND COMPLIANCES

- X.509 v3
- PKCS#11 v2.11 Cryptographic Token Interface
- Secure / Multipurpose Internet Mail Extensions
- Microsoft Cryptography API

## About VASCO

VASCO designs, develops and supports patented "Strong User Authentication" products for the financial world, secure network access, e-business and e-commerce. VASCO's user authentication technology is carried by the end-user on its DIGIPASS products which exist in hard & software format.

At the server side, VASCO's VACMAN products guarantee that only the designated DIGIPASS user gets access to the application. VASCO's target markets are the applications and their several hundred million users using fixed password as security.

VASCO's time-based system generates e-signatures and a "one-time" password that changes with every use, and is virtually impossible to hack or break. With tens of million of DIGIPASS products sold, VASCO has established itself as a world leader in strong authentication for e-banking and for network access for blue-chip corporations and governments worldwide.

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