



DIGIPASS[®] KEY 101

PKI USB device for strong authentication, digital signatures and data protection

DIGIPASS KEY 101 is an easy-to-use end-user device which can be used for local and remote access, desktop and application log-on, disk encryption, data, e-mail and transaction signing.

DIGIPASS KEY 101 is an ultraportable solution for strong authentication, secure access and safe transactions. The USB interface eliminates the need to install readers at the client side. Enjoy the benefits of a smart card reader without the expense of additional hardware.

VASCO[®] Data Security has a solid reputation in providing financial institutions and large corporations around the world with strong two-factor authentication solutions. With DIGIPASS KEY 101, VASCO offers an innovative solution combining PKI-technology with physical access.

DIGIPASS KEY 101 is a USB end-user authentication device offering PKI-based strong authentication and is used in conjunction with DIGIPASS CertiID[™], VASCO's PKI-based client software suite. DIGIPASS KEY 101 can be integrated in any application supporting PKCS#11, MS CAPI standards and CNG.

SUITABLE FOR SEVERAL MARKETS

DIGIPASS KEY 101 has been developed to meet the growing security needs of medium & large corporations, governments and banks. The USB device fits every computer and requires no hardware installation. Large scale deployment can be handled efficiently and economically due to its lightweight, compact size.

For enterprises it provides a solution to secure local and remote access to the network and business-critical applications, to lock workstations, encrypt files and disks and secure physical access.

In the banking segment, DIGIPASS KEY 101 helps to comply with more stringent financial regulations (Sarbanes-Oxley, Basel II, HIPAA) and enhanced security requirements. PKI technology is used for digital signature of transactions.

PKI FUNCTIONALITY

DIGIPASS KEY 101 combines the security of a smart card with the flexibility of a card reader. Digital certificates from any Certificate Authority (Entrust, Microsoft, VeriSign, IdenTrust,...) can be generated and stored on the device. The generation of private and public keys is managed on the devices and the keys cannot be exported from the smart card on the device.

ONBOARD KEY PAIR GENERATION

The chip embedded in DIGIPASS KEY 101 is a highly secure data container. The user's private and public keys are generated on the chip the first time a user requests a certificate. The private key is stored on the chip and can never be exported, making DIGIPASS KEY 101 one of the most secure data containers in the world. Non-repudiation of transactions can now be guaranteed.

BENEFITS

- Designed for cost-efficient mass deployment. Its convenient size qualifies for distribution to the end-user.
- Combines the advantages of a smart card on a USB device, without the cost to deploy readers to end-users
- Flexibility to access multiple PCs quickly with one USB device for authentication and network access; multiple users can also share one PC with an available USB port

DIGIPASS KEY 101 has a specific contactless connection for personalization of the units in mass production. Java applets, user information and more can be uploaded via a simple interface.

Smart card based OTP generation

End-users can generate an OTP using DIGIPASS CertiID software.





FEATURES

- Strong password authentication
- PKI functionality (signature, encryption, on board generation of RSA key pair)
- E-mail, file and disk encryption
- Supports multiple operating systems such as Windows, Linux and Mac OS x
- Smart card based OTP generation

TECHNICAL SPECIFICATIONS

Size (LxWxT)	73.5 mm X 23.5 mm X 10.5 mm
Color	Blue transparent housing with blue non-transparent USB cap with VASCO logo (unless otherwise specified)
Product Identification	10-digit serial number and bar code on the back side
Weight	10 g (including product cap)
Logotype	lens
Led	Orange and green on the lateral for activity acces
USB	2.0 (full speed, low speed) Connector type A

COMPLIANCE TO STANDARDS

Smart card	ISO 7816 3 –4. Oberthur cosmo v 5.4 or V7.0/D . IAS ECC Other chip on demand
Java card	Open Platform 2.1.1, java card 2.2
Smart card reader architecture	PC/SC, CCID Drivers
Public Key Mechanisms	1024-bit and 2048-bit RSA, X509 v3
Cryptographic supports ¹	AES 128 to 256 bits, EC-DSA up to 512bits, SHA up to 512

Public Key Mechanisms	1024-bit and 2048-bit RSA, X509 v3
Public Key Cryptography (PKI)	PKCS#11 v2.2, PKCS#1,7,8,10,12,15 Microsoft® CAPI 2.0, S/MIME. Crypto Next generation and key storage provider and minidriver architecture
Wireless interface ²	Iso 14443 Type A, T=CL & 1k Mifare emulation
OTP	DES3
Certification	Smart card: Common criteria EAL4+ and compliant up Protection profile SSCD Smart card: Common criteria EAL5+ Smart card: FIPS 140-2 Level 3 Entrust and Identrust ready: available with DIGIPASS CertiID 3.3 and smart card minidriver certified
Operating system supported	Microsoft® Windows® XP/Vista/ Windows 7 MacOS 10.6.4 Linux (Red Hat Enterprise Linux 5.5 Desktop, Ubuntu 9 to 10.10, SUSE Linux Enterprise Desktop 11) Citrix XenDesktop 5 Citrix XenApp 4.0X Citrix Presentation Server 4.5
Storage temperature	-10 °C to 50 °C; 90 % RH non-condensing IEC 60068-2-78 (Damp heat) IEC 60068-2-1 (Cold)
Operating temperature	0 °C to 45 °C; 85 %RH non-condensing IEC 60068-2-78 (Damp heat) IEC 60068-2-1 (Cold)
Vibration	10 to 75 Hz; 10 m/s ² IEC 60068-2-6
Drop	1 meter IEC 60068-2-31
Emission	EN 55022
Immunity	4 kV contact discharges 8 kV air discharges 3 V/m from 80 to 1000 MHz EN 61000-4-2 and EN 61000-4-3
Compliance to European directives (CE marking)	2004/108/EC (EMC directives) 2002/95/EC (RoHS directive) 2002/96/EC (WEEE directive)

¹ Depending on applet and chip ² Interface optional.

About VASCO

VASCO is a leading supplier of strong authentication and e-signature solutions and services specializing in Internet Security applications and transactions. VASCO has positioned itself as global software company for Internet Security and designs, develops, markets and supports patented DIGIPASS®, DIGIPASS PLUS®, VACMAN®, IDENTIKEY® and aXsGUARD® authentication products. VASCO's prime markets are the financial sector, enterprise security, e-commerce and e-government.

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