

# DIGIPASS 110

**Plug & authenticate. DIGIPASS 110, a secure USB stick, provides DIGIPASS authentication and signing capabilities to remote users without the burden of software deployment.**

**The DIGIPASS secrets are stored on DIGIPASS 110, not on a computer. A Java applet on the PC creates, together with the secrets stored on the USB stick, time-based one-time passwords that are validated by VACMAN Controller. This zero-footprint approach meets large volume e-commerce and retail e-banking market requirements.**

DIGIPASS 110 reduces data security concerns associated with online purchases, password sharing, account access, and financial transactions.

By replacing static passwords with a solution that generates dynamic one-time passwords and electronic signatures, organizations are able to secure access to their critical applications without impacting the customer's user experience.

DIGIPASS 110 cryptographic functions can only be used in conjunction with the java-applet that the end-user downloads on his PC. Cryptographic keys always remain in the DIGIPASS 110 USB stick.

The applet design prevents the most advanced Man-In-The-Middle attacks (including real-time man-in-the-middle attacks).

## **STRONG DIGIPASS AUTHENTICATION**

DIGIPASS 110 supports dynamic one-time password generation applying the proven DIGIPASS algorithms. DIGIPASS 110 also features VASCO's renowned e-signature functionality. This allows the end-user to protect online transactions against fraud schemes such as man-in-the-middle attacks. It can generate e-signatures based on unlimited transaction data input.

DIGIPASS 110 complies with regulatory requirements (e.g. FFIEC).

## **REGISTRATION & ACTIVATION**

Registration of DIGIPASS 110 is as easy as registering a static password. Mass roll-out of DIGIPASS 110 is extremely easy. After subscribing to the service, the end-user will receive the USB-stick with the DIGIPASS secrets. Auto registration takes approximately 10 seconds after the user plugs the USB-stick into the PC. The exact same VACMAN controller integration for user registration/activation can be re-used to support additional Vasco software based DIGIPASS products such as DIGIPASS for Mobile phone.

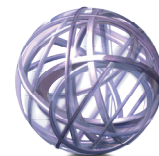
## **USAGE**

For a secure log-on to a website or to generate an electronic signature, the web server sends a webpage which includes a secure applet, requesting the user's password. This password is never transmitted to the server. When the password is entered, DIGIPASS 110 and the applet will generate the dynamic one-time password or signature. Optional time-out prevents unauthorized use of DP110.

## **VALIDATION**

VASCO's VACMAN Controller performs the validation of one-time passwords and signatures generated by DIGIPASS 110. To simplify integration with the web server, DIGIPASS 110 is delivered with all necessary files, including web pages and scripts.





### VERSATILE SET OF FEATURES

DIGIPASS 110 can adapt itself to various security requirements such as prevention of account sharing using a transparent registration process to a man-in-the-middle countermeasure based on DIGIPASS electronic signature.

### NO NEED FOR DRIVER OR CLIENT SOFTWARE DEPLOYMENT

DIGIPASS 110 requires neither client software installation nor use of a driver. This is a true zero-footprint solution. No installation hassles. No costly support issues.

### JAVA APPLLET

The java applet runs inside standard web browser software making it extremely easy to adapt DP 110 for security upgrades and maintenance.

### FEATURES:

OTP generation	<ul style="list-style-type: none"> <li>• Triple DES</li> <li>• OTP length of 16 hexadecimal digits</li> <li>• Check digit option</li> <li>• Decimal/hexadecimal format</li> <li>• Time based</li> </ul>
MAC/signature generation	<ul style="list-style-type: none"> <li>• Triple DES</li> <li>• Signature length of 16 hexadecimal digits</li> <li>• Data field number up to 8</li> <li>• Data field length up to 20 bytes</li> <li>• Unlimited transaction data size on SHA-2 hashed file</li> <li>• Hexadecimal format</li> <li>• Time based</li> </ul>
Compatibility	<ul style="list-style-type: none"> <li>• MacOS X, MACOS 9, 2000, XP, Vista</li> <li>• Java 1.4 and higher</li> <li>• Internet Explorer 6 and higher, Firefox 2.X, Safari 2.X</li> </ul>
Size	43.9 mm x 16.1 mm x 4.3 mm
Weight	3 g

### COMPLIANCE

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 <sup>2</sup>	IEC 60068-2-6
Drop	1 meter	IEC 60068-2-32
Emission		EN 55022
Immunity	4 kV contact discharges 8 kV air discharges 3 V/m from 80 to 1000 MHz	EN 61000 -4-2 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)

### About VASCO

VASCO designs, develops, markets and supports patented DIGIPASS®, DIGIPASS PLUS®, VACMAN®, IDENTIKEY® and aXs GUARD® authentication products for the financial world, remote access, e-business and e-commerce.

With tens of millions of products sold, VASCO has established itself as the world leader in Strong User Authentication for e-Banking and Enterprise Security for blue-chip corporations and governments worldwide.

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