

TrustWay PPS: a new generation of secure, personal data storage devices for transporting data at any level in the organization



TrustWay PPS: Personal Protection System

Personal computers are highly vulnerable to spyware, industrial espionage, piracy and theft. To protect workstations and laptops against all these, TrustWay® PPS provides 2Gbytes of 256-bit AES encrypted USB memory storage, secure key storage, a PKCS#11 coprocessor function, and a TrustWay VPN 'client' license.

Developed and manufactured entirely in France by Bull, this USB key is secured by a Bull TrustWay cryptographic processor based on CIK technology usually employed in the defense industry. It guarantees the highest level of protection for all your sensitive data, with unrivalled performance for a commercially available product.

All-in-one universal USB key

TrustWay PPS is powerful and secure, for numerous applications:

- Encrypting a hard disk or data files
- Secure VPN access
- Strong authentication
- e-signatures
- Encrypted VoIP
- Secure messaging.

Pushing back the boundaries

TrustWay PPS overcomes the limitations and weaknesses of existing solutions:

- The slowness and restricted capacity of smartcards
- The limited security features offered by standard USB keys
- The low levels of key protection offered by software solutions.

New-generation functionalities

A cryptographic SOC (System On Chip) processor, developed 100% by Bull, provides all the following functions:

- Integration of standard and specific encryption algorithms
- Full life-cycle management for encryption keys (generation, control, blackening/whitening)
- Management of a 2GB encrypted flash memory.

The highest level of key protection ever achieved by a USB key

TrustWay PPS utilizes CIK (Crypto Ignition Key) mechanisms, developed originally for use in defense, to guarantee maximum key protection. TrustWay PPS is the first cryptographic USB key to use this mechanism; essential in case of theft, loss or attempts at fraudulent use.

PRODUCT SPECIFICATIONS



Architect of an Open World™

TrustWay PPS, the universal USB key for any workstation

Simple to use

All cryptographic functions are exclusively carried out on the key itself, not on the PC. The stored keys are encrypted via a key structure generated inside the TrustWay PPS cryptographic component. When the system powers up, the user must enter a PIN code via the built-in device, to activate the internal key structures, avoiding any possibility of it being intercepted by spy-ware.

A universal resource

The TrustWay PPS key features the PKCS#11 API, and an MS-CAPI wrapper for IE, so it can be used as a individual cryptographic resource by any Windows 2000/XP/Vista application, for example for:

- File security
- Encrypting a hard drive partition
- Encrypted VoIP
- Secure email
- e-signature.

TrustWay PPS is also available with a 2GB AES 256-bit encrypted flash drive. The TrustWay PPS key is supplied with the TrustWay VPN Client IPsec application, enabling creation of AES 256-bit IPsec tunnels between a mobile or fixed workstation and a protected network.

It is the ideal complement to the TrustWay VPN SRA offering, which provides secure remote access to all the servers in an enterprise (for remote working, mobile workforce...).

Technical specification

TrustWay® PPS

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| <p>Characteristics</p> <p>USB 2.0 Interface Built-in display – integrated joystick USB extension cable supplied Dimensions: 95 mm x 35 mm (3.8 x 1.4 inches) Operating temperature: 0°C to 45°C (32°F to 113 °F) Storage temperature: -20°C to 80°C (-4°F to 176°F) Humidity: 8-90% without condensation</p> <p>APIs</p> <p>PKCS#11 V 2.1</p> <p>Storage capacity</p> <p>120 x 2048-bit RSA keys or 1,800 x 256-bit AES keys 2GB encrypted Flash drive</p> | <p>Administration</p> <p>Long life cycle and upwards scalability thanks to the secure update of embedded applications via USB interface "Security Officer" and "User" modes</p> <p>Supported algorithms</p> <p>256-bit AES 168-bit 3DES 2048-bit RSA encryption and signature SHA-1 MD5, ... Hardware random number generator Key and key-pair generation</p> |
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Bull - Rue Jean Jaurès - 78340 Les Clayes-sous-Bois - France

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