

# Meet the PocketVault P-3X™

*Smart USB 3.0 PKI and Encrypted Storage Token Secured by SPYRUS®*

## Secured Access, Data Protection & Endpoint Management

### Like A Bank Vault In Your Pocket

The PocketVault P-3X USB 3.0 secure storage token is a high-security, use-anywhere encrypting solid-state disk (SSD) drive that protects data like a bank vault.



PocketVault P-3X is easy to use, too. Just log on and drag files to it as you would with any USB drive. Every file on the PocketVault P-3X is

securely protected in its encrypted solid-state storage.

The cryptographic components in every SPYRUS secure storage token are designed, engineered, and manufactured in the United States by carefully vetted personnel.

The PocketVault P-3X includes an embedded PKI smartcard is used for multi factor authentication (MFA) to PCs and cloud services!

### PocketVault P-3X Features and Benefits

- Incredibly fast USB 3.0 and SSD performance. No waiting to access your data.
- Absolute security from XTS-AES 256 full disk encryption and next-generation P-384, SHA- 2 cryptography promoted by the multiple governments for unclassified and classified information.
- Keys are generated in the FIPS 140-2 Level 3 token where the private keys do not exist outside of the token.

- US Patent No 9,742,561 for “Secure Remote Authorization of Local Machine Services Using Secret Sharing” reconstitutes keys as required.
- Passwords are never stored on the token, even in hashed form.
- Optional on premise or cloud Device Management Platform Server for managing tokens.
- Hardware read-only mode for protection against malware from untrusted computers.
- Simple user interface makes logon, encryption, and setup easy.

### Device Management Platform

The PocketVault P-3X USB 3.0 is fully compatible with our Device Management Platform that enterprise administrators can use to provision, monitor, and manage tokens, including a “kill pill” capability to zeroize lost, stolen, and otherwise compromised tokens. Our Platform includes the NcryptNshare application that extends secure local file storage to allow protection of files shared with other users.

### Technical Specifications

#### Cryptographic Standards

- SPYRUS Algorithm Agility includes Suite B (a set of cryptographic algorithms used for cryptographic modernization) and RSA based cryptography
- XTS - AES 256 Full Disk Encryption
- AES 128, 196, and 256 ECB, CBC, CTR, and Key Wrap Modes SP800 - 90 DRBG (Hash DRBG)
- Elliptic Curve Cryptography (P-256, P-384, P-521)  
 ECDSA Digital Signature Algorithm

- CVL (ECC CDH) [ECDH per SP 800-56A]
- Concatenation KDF (SP800-56A)
- RSA 1024 and 2048 Signature Algorithm (Note RSA 1024 has been deprecated by NIST.)
- RSA 1024 and 2048 Key Exchange (Note RSA 1024 has been deprecated by NIST.)
- PBKDF - 2 (per PKCS#5 version 2)
- DES, two- & three-key triple DES with ECB, CBC Mode (Note DES has been deprecated by NIST.)
- SHA-1 and SHA-224/256/384/512 hash algorithms with HMAC Support

## USB Token Integrity

Our customers rely on their USB token for mission critical functions as it is their computer SSD drive. Unlike a traditional USB that is used less regularly and is much easier to replace, our tokens are able to withstand punishment from a physical design perspective. They are designed to meet the highest physical standards in design and component materials.

The combination of stringent environmental testing and additional testing for magnetic fields, X-Ray and long-term immersion demonstrate the usability our USB tokens in challenging healthcare environments as well.

## Security Certificates

- FIPS 140-2 Algorithm Certificates
- FIPS 140-2 Level 3 Multi-Chip Stand Alone Hardware
- MIL-810 Tested to no failure (40 + approved testing scenarios)
- Common Criteria EAL 5+ components

## Capacities & Dimensions (LxWxH)

- 32 GB, 64 GB, 128 GB, 256 GB
  - 86.1 mm x 24.2 mm x 10.88 (+/-0.20)
- 512 GB capacity
  - 101.6 mm x 24.2 mm x 10.88 (+/-0.20)
- 1 TB capacity
  - 104mm x 24.2 mm x 12mm (+/- 0.20)

## Performance

- USB 3.0 Super Speed, compatible with USB 3.1 and USB 2.0
- Sequential Read: up to 249 MB/sec
- Sequential Write: up to 238 MB/sec

## Reliability

- Data Retention: 10 years

## Electrical

- Operating Voltage: Vcc = 3.3 to 5 VDC
- Power Consumption: 275mA @ 3.3 VDC

## Environmental

- Operating Temperature (MIL-STD-202, METH 503) 0°C - 70°C
- Non-Operating Temperature Cycling (MIL-STD-810, METH 503) -40°C - 85°C
- High Temperature Storage/Data Retention, MIL-STD-810, METH 501, 100°C; 96 hours
- EMI (FCC/CE) FCC Part 15, Class B/EN55022 - EN55024/etc.
- ESD (EN61000-4-2) Enclosure Discharge - Contact & Air Dust Test (IEC 60529, IP6) As per defined
- Waterproof Test (IEC 60529, IPX7) As per defined
- Operating Shock, MIL-STD 883J, Method 2002.5, Cond. B, 1500g, 0.5ms, 1/2 sine wave
- Waterproof test, MIL-STD-810, METH 512.6, 1-meter depth, 30 minutes

## Supported Platforms

SPYRUS tokens support the commonly used and latest versions of Microsoft, Apple and Linux operating systems.

## About SPYRUS

SPYRUS develops and deploys cryptographic solutions in innovative ways, providing the strongest protection for data in motion, data at rest and data in process. For more than 20 years, SPYRUS has delivered encryption, authentication, and digital content security products to government, financial, and healthcare enterprises. SPYRUS solutions enable customers to meet stringent regulatory requirements for data protections across industries.