

Meet the PocketVault P-3X

USB 3.0 Encryption Device Secured by SPYRUS®

Like A Bank Vault In Your Pocket

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

The combination of USB 3.0 and SSD storage adds up to the fastest performance available.

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 encryption device are designed, engineered, and manufactured in the United States by carefully vetted personnel.

The PocketVault P-3X encrypts with a 256-bit AES key and uses the latest XTS-AES mode. Why trust today's data with yesterday's security?



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 with 256-bit keys.
- Next-generation ECC and XTS-AES cryptography promoted as Suite B by the US government for both unclassified information and even classified information.
- Keys are generated in the device and are never exported or escrowed.
- Patent pending technology reconstitutes keys as required—they are not stored anywhere.
- Passwords are never stored on the device, even in hashed form.
- Requires no special drivers.
- Simple user interface makes logon, encryption, and setup easy.
- Enterprises and OEMs can customize the case design, material, colors, and imprinting.

Technical Specifications

Capacities & Dimensions (LxWxH)

32 GB, 64 GB, 128 GB, 256 GB
86.1 mm x 24.2 mm x 10.8 mm (+/- 0.20)

512 GB capacities
101.6 mm x 24.2 mm x 10.8 mm (+/- 0.20)

Performance (based on 512 GB drive)

USB 3.0 Super Speed; USB 2.0 Compatible

Please note Random Read and Random Write Performance is the most important matrix for bootable live drives.

Sequential Read: up to 249 MB/sec

Sequential Write: up to 238 MB/sec

Reliability

Data Retention: 10 years

Other Certifications

FIPS 140-2 Algorithm Certificates

FIPS 140-2 Level 3

Electrical

Operating Voltage Vcc = 3.3 to 5 VDC

Power Consumption 275mA @ 3.3 VDC

Other

Humidity 90%, noncondensing

Physical Device Integrity:

At SPYRUS, we understand that people rely on their USB device for mission critical functions. In essence, it is their computer SSD drive. So unlike a traditional USB that is used less regularly and is much easier to replace, we realized early-on in our customer deployments that the device must withstand punishment from a physical design perspective. To that end we designed our Windows To Go devices 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 of this high security configuration of the SPYRUS USB devices in the challenging healthcare environments as well.



Corporate Headquarters

1860 Hartog Drive
San Jose, CA 95131-2203
+1 (408) 392-9131 phone
+1 (408) 392-0319 fax
info@SPYRUS.com

East Coast Office

+1 (732) 329-6006 phone
+1 (732) 832-0123 fax

UK Office

+44 (0) 113 8800494

Australia Office

Level 7, 333 Adelaide Street
Brisbane QLD 4000, Australia
+61 7 3220-1133 phone
+61 7 3220-2233 fax
www.spyrus.com.au

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 (MIL-STD-810, METH 501) 85°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

High Temperature Storage/Data Retention, MIL-STD-810, METH 501, 100°C; 96 hours

Waterproof test, MIL-STD-810, METH 512.6.1 meter depth, 30 minutes

Hardware Security & 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

Support for the cryptography can vary depending on version.

FIPS 140-2 Level 3 opaque epoxy filled housing can be modified by special order.