

SECURE SYSTEMS

SDV[®] High Assurance



Securing highly classified data in any environment

THE SILICON DATA VAULT[®] HIGH ASSURANCE (SDV[®]-HA) SERIES IS CERTIFIED TO STORE HIGHLY CLASSIFIED DATA UP TO & INCLUDING TOP SECRET WHILST ENABLING THE DEVICE TO BE HANDLED AS UNCLASSIFIED

Fast Facts:

System Security:

- SDV hardware encryption
- NSA suite B
- AES 256
- ECC 384
- SHA 256
- Physical and digital tamper protection
- 2 factor authentication
- Secure erase

Independent User and Administrator roles

Features:

- Customisable operating environment
- Customisable storage area
- OS agnostic
- Bootable
- 240, 480 or 960GB solid state storage

Connectivity:

- USB
- eSATAp

Form Factor:

- 135(l) x 81(w) x 20(d) metal case
- Strong casing

Testing & Certification:

- Australian Signals Directorate High Assurance
- MIL-STD-810G specifications

Part Numbers:

- SDV-HA240
- SDV-HA480
- SDV-HA960

Overview

The Silicon Data Vault High Assurance (SDV-HA) is a portable self-encrypting solid state storage and processing device housed in a compact rugged enclosure. It attaches to a computer by USB or eSATAp. Hardware implemented, the SDV-HA utilizes NSA Suite B cryptographic algorithms, two-factor pre-boot & post-boot authentication (password and USB token) & highly innovative anti-tamper detection and response mechanisms to provide exceptionally strong data protection. Detecting both physical and electrical tampering and monitoring environmental and operational conditions with a tamper event triggered if a condition contravenes predefined values. When a tamper event is triggered, the SDV-HA will destroy the encryption keys rendering the device inoperable.

Australian Signals Directorate (ASD) High Assurance certification enables the SDV-HA to secure highly classified data up to and including TOP SECRET yet enable handling as an UNCLASSIFIED device, whilst powered down or unauthenticated.

Tested to MIL-STD-810G specifications the SDV-HA will perform equally well in an office or when transported to more environmentally hostile deployed or embedded scenarios.



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Secure Remote Computing and Data Storage Combined:

The SDV-HA supports multiple operational applications for different environments whilst always providing a high level of data protection and physical security. Example applications shown below.

Possible Applications

- Office Based / Travelling
- Embedded Systems
- Deployed Environment

Capability Definition

- Highly classified data storage.
- Optional bootable operating system.
- Post-boot authentication.
- Highly classified data storage.
- Bootable operating system.
- Optional in-place physical mounting.
- Pre-boot and/or post-boot authentication.
- Highly classified data storage.
- Optional bootable operating system.
- Pre-boot and/or post-boot authentication.

Secure Systems

Email: secure@securesystems.com.au

Tel: +61 (08) 9240 8708

www.securesystems.com.au