



CESG
Approved



CATAPAN-Secure Data Vault (SDV)

High Grade External Portable Hard Drive

Key Features

- Suite B Encryption Algorithms
- Active tamper protection
- Two factor authentication
- Customisable operating environment
- 240 or 480 GB solid state storage
- USB or eSATAp connectivity
- Secure design architecture

CATAPAN-SDV is a solid state High Grade external hard drive designed to allow SECRET and TOP SECRET data-at-rest to be handled as unclassified.

A pocket-sized portable device, CATAPAN-SDV is ideal for mobile, remote or office based environments where there is a requirement for secure storage of data-at-rest.

CATAPAN-SDV operates independently of the host PC's resources with no effect on speed or performance. Once the user has successfully been authenticated, CATAPAN-SDV operates like a standard external storage device, with data encrypted and decrypted transparently to the end user.

Built on a secure design architecture, CATAPAN-SDV provides a strong key management methodology incorporating multiple factor user authentication.

CATAPAN-SDV supports two modes of operation: The first allows CATAPAN-SDV to operate purely as an additional external storage drive with user authentication taking place after the host PC or laptop has booted into Windows from an internal drive. The second allows an Operating System to

be booted from CATAPAN-SDV; in this case the user authentication is performed during the host PC or laptop boot process.

Both modes are available when CATAPAN-SDV is connected to the host PC via the eSATAp port or via the USB port.

CATAPAN-SDV has in-built anti-tamper mechanisms to eliminate the risk of mechanical and electronic attempts to subvert operations. In the event of a tamper event being detected, the device clears critical security parameters thereby ensuring the data stored is completely protected.

Available with rugged casing options for transportation, CATAPAN-SDV will perform equally well in an office or when transported to more environmentally hostile deployed scenarios.

L-3 TRL is a provider of cyber security solutions to HMG and is part of the UK Cyber Growth Partnership, a group composed of representatives from UK industry, government and academia.

Technical Specifications

Classification

Secures to TOP SECRET
Unclassified when powered down or unauthenticated

Physical characteristics

Dimensions

20mm H, 81mm D, 143mm W

Weight

420g

Power supply source

USB/eSATA host interface

Input supply voltage

5VDC +/-5%

Interfaces

Host PC SATA Interface

Combination eSATAp (1.5Gbps)

Host PC USB Interface

Mini Type-B USB 2.0 (High Speed)

Token USB Interface

Type-A USB 2.0 (Full Speed)

Status Indication

Single Tri-colour status LED

Management

Local

Independent User & Administration roles with enforced access controls

Environmental

Operating temperature

0 to 50°C

Storage temperature

-25 to 70°C

Storage specifications

Integral storage device

1.8" ZIF PATA SSD ATA - 5/6/7/8 compatible

Secure storage capacity

240GB and 480GB

Security specifications

Accreditation

CESG approved

Authentication

Two factor (passphrase and token)

Cryptography

Suite B algorithms

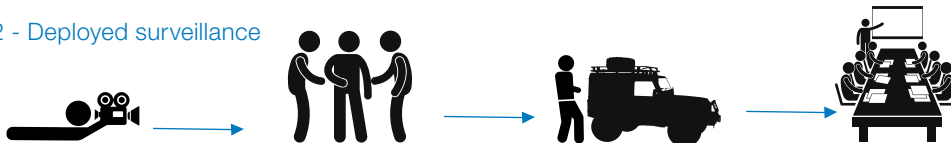
User Cases

User Case 1 - International travel



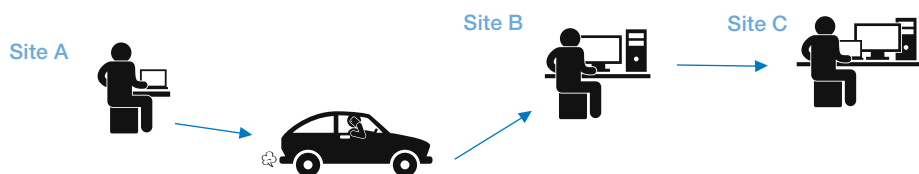
With no security restrictions being placed on the transportation of TS and S data, information can be stored on CATAPAN-SDV and transported both in the UK and internationally without any threat to the confidentiality of the data.

User Case 2 - Deployed surveillance



With a 480GB storage facility, CATAPAN-SDV can securely store video and data collected in the field. The in-built anti-tamper mechanism means data is not compromised in the event of the device being lost.

User Case 3 - Multi-location secure working



As CATAPAN-SDV is authenticated at the host PC start up, the device can be used to store and transport data across several sites, allowing secure working to be achieved regardless of location.



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L-3 TRL reserves the right to amend specifications in the light of continuing development.
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