

IDBridge K50

Secure token in portable USB format



The IDBridge K50 is a compact, tamper-evident USB that offers multiapplication dynamic smart card functionality. It can be used with any USB connection for Identity and Access Management applications such as network authentication, digital signatures and other services based on Public Key Infrastructure (PKI).

Smart card security with USB convenience

The IDBridge K50 combines smart card security with USB convenience to deliver the following benefits:

- **Highly secure** – advanced protection is enabled by two factor authentication: something users have – the device, and something they know – their PIN.
- **Universal access** – secure logical access control services can be used with any system having a USB connection. Support for major desktop operating systems.
- **Windows, Mac and Linux** – standard USB specifications means the device works with virtually any network connection.
- **Easy to use** – users simply insert the device into a USB port and enter a PIN to access onboard security applications.
- **Customizable** – USB tokens can be customized with a customer's logo and other branding.



Tamper-evident security

The IDBridge K50 is approximately the size of a standard USB thumb drive and is packaged in a rugged, tamper-evident casing suitable for use in harsh environments. The embedded smart card reader is especially convenient in situations that require secure authentication when smart card readers are not available. With IDBridge K50, only authorized users can access the network and sensitive information, conduct secure transactions and digitally sign documents.

Two factor authentication

USB IDBridge K50 features strong authentication based on two factors: the token itself and a PIN, providing an extra level of security for the most sensitive applications. The PIN ensures the holder of the device is its legitimate owner. The IDBridge K50 offers all the power of a multi-application smart card in a USB form factor, making it an ideal solution for organizations that require a combination of security, portability, robustness and convenience.

Empower users with a family of security applications

The IDBridge K50 offers increased flexibility and can be provisioned with IDGo Middleware to support a broad range of on-board security applications. IDGo Middleware is a smart card-based crypto-library that integrates Thales smart card cryptography with Public Key Infrastructure (PKI) services to bring the highest level of security, portability and convenience to logical access control solutions.

The IDBridge K50 is designed for secure storage of cryptographic keys and certificates, strong authentication, encryption, and digital signature of email and data. It also supports non-repudiation, a crucial feature for proof of financial transactions.

Typical usage includes:

- Network logon
- Computer access control
- Data protection
- Trusted document exchange
- Secure Internet and remote access
- e-Commerce and online banking



Technical specifications

Operating systems supported

- Up to Windows 10 (including Windows 7, 8.1)
- Linux
- Mac OS
- Drivers available at [Thales Customer Support Portal](#)

APIs

- Microsoft PC/SC environment with associated drivers

Host interface

- Plug and Play
- CCID (Chip Card Interface Device)
- USB 2.0 full speed (12 Mbps)

Human interface

- LED one color (Blue), dual state (blinking: waiting card insertion; ON: card reading / writing)
- Robust tamper evident design
- One-time SIM card assembly

Environmental

- CE, FCC part 15 Class B
- EN 60950 / UL 950 / CSA 950
- Operating: +0°C / +70°C
- Storage: -20°C / +85°C
- ROHS compliant, WEEE marking
- Waterproof

Electrostatic Discharge

- +/- 8kV direct air discharge
- +/- 4kV indirect contact discharge

About Thales

The people you rely on to protect your privacy rely on Thales to protect their data. When it comes to data security, organizations are faced with an increasing number of decisive moments. Whether the moment is building an encryption strategy, moving to the cloud, or meeting compliance mandates, you can rely on Thales to secure your digital transformation.

Decisive technology for decisive moments.