

SECORA™ ID Key S USB

Seamless integration, enhanced performance, and exceptional reliability for hardware-based passwordless authentication (FIDO) and secured digital signatures (eSign)

SECORA™ ID Key S USB is an innovative solution designed to meet the growing demand for secured, passwordless authentication and qualified signature creation with a hardware device.

With this one-stop-shop solution based on the Infineon ID Key S USB hardware, one single SMD package incorporates a 40 nm SLC38 security crypto controller, a USB serial bridge controller, along with all necessary software components. Built on the latest Java Card 3.1 standard, it supports both, USB and NFC communication interfaces, seamlessly fitting into applications with mobiles, tablets, notebooks, and workstations that lack an internal smart card reader.

Our SECORA™ ID Key S USB is available as Java Card™-based turnkey solution that is fully customizable with proprietary applets. It provides robust security functions, cryptographic operations, and secured creation and storage of cryptographic keys and certificates enabling a variety of use cases. Additionally, this leading-edge solution can be equipped with Infineon's own applet offering for Public Key Infrastructure (PKI) and FIDO applications. The complete solution is targeted to be certified to highest security standards.

This game-changing solution delivers high security, low cost of ownership, and easy rollout and maintenance by combining all required hardware and software components in one single device.

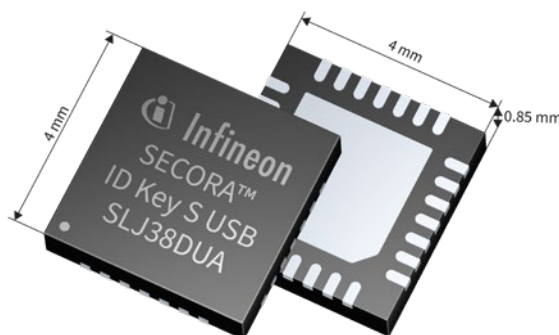
Key applications

SECORA™ ID Key S USB can support all USB and USB/NFC token applications such as:

- FIDO security keys for device-bound passkeys
- Certificate-based authentication
- Digital signing transactions
- Encryption and decryption

In addition, customers can develop proprietary applets on the SECORA™ ID Key S USB platform to enable additional use cases, such as:

- Physical access
- Software rights management
- Cold wallet / crypto hardware wallet



Key features

Compliance

- Java Card™ 3.1 Classic
- Global Platform® 2.3.1 (FC V1.0.2, CIC v2.1, API V1.6)
- MoC Minex III
- ISO/IEC 14443
- ISO/IEC 18092 (NFC passive mode)
- USB 2.0
- BSI TR-3110, BSI TR-3127
- BSI AIS20/31 (PTG.2, PTG.3, DRG.4)
- FIDO2 (CTAP2.1, CTAP2.0) & U2F
- eIDAS (Listed in EU QSCD website)

Certification targets

- HW, OS: CC EAL6+, EMVCo
- eSign: CC EAL5+
- FIDO Certified Authenticator L3+

Communication

- Dual interface: NFC, USB
- CCID and CTAP HID protocol support
- Multiple logical channels
- Secure Channel Protocol SCP02/SCP03

Cryptography

- RSA up to 4096 bits
- Elliptic curves up to 521 bits
- DES up to 192 bits
- AES up to 256 bits
- HMAC 128 bits
- SHA2 up to 512 bits

Hardware

Infineon ID Key S USB: System in package including

- SLC38 security controller (40 nm technology, 32-bit CPU based on Arm® SecureCore® SC300 (100 MHz))
- USB serial bridge (Cortex® M0 48 MHz, supports USB 2.0)
- Package: 4x4 mm VQFN28



Benefits and advantages

Benefits	Advantages for the customer
One-stop-shop solution	SLC38 and USB serial bridge integrated in one single package, allowing for small footprint & easy assembly.
FIDO2 and passwordless authentication	Compliant with FIDO2/CTAP2.1 specifications and certified by the FIDO Alliance as Level 3+ authenticator. FIDO2 enables high-security, phishing resistant, passwordless or MFA logins by combining something you have (the token) with something you know (the secret token PIN).
PKI support	Securely creates, stores, and uses cryptographic keys and signatures for secured email, digital signatures, passwordless authentication, and workstation logins.
Versatile connectivity	Offers USB and NFC interfaces, supporting a wide range of devices and environments.
Ideal for modern IT environments	Well-suited for IT environments and devices without integrated smart card readers, it provides a comprehensive authentication solution that supports various options, including PKI functionality, and FIDO, in any combination.

Product summary

Sales code	Operating System	Open Platform	Applets			Available NVM [kB]
			ISO file system	eSign	FIDO	
SLJ38DUAXxxCE	Java Card™	Yes	x			100 - 199
SLJ38DUAXxxDE	Java Card™	Yes	x	x		100 - 199
SLJ38DUAXxxEE	Java Card™	Yes	x		x	100 - 199
SLJ38DUAXxxHE	Java Card™	No		x		100 - 199
SLJ38DUAXxxKE	Java Card™	No			x	200 - 299
SLJ38DUAXxxTE	Java Card™	No		x	x	100 - 199



Learn more:

www.infineon.com/technology/about-fido

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