Infineon ID Key S USB – SLC38DUA600UC

Description

- Combination of a Secure Element and a USB-serial bridge, delivered as a System-in-Package (SiP).
- Optimized for multi-application USB security devices and security tokens.

Features

Secure Element

- SOLID FLASH™ contact-based security crypto controller
- 32-bit architecture based on the 100MHz clocked Arm® SecurCore® SC300 enhanced by Infineon Technologies' cache and security technology
- Supported interfaces: UART, I2C target, and GPIO
- 600 kB user SOLID FLASH™ NVM
- 24 kB user RAM
- Certification level: CC EAL 6+ (high)

USB-serial bridge

- USB 2.0 Full-Speed Interface with on-chip clock recovery and on-chip USB voltage regulator
- Cortex M0 (48 MHz)
- 32 kB flash memory, 4 kB SRAM
- Supported interfaces: USB 2.0 Full-Speed, I2C controller, CAPSENSE™, and SWD

Applications

- Authentication
- FIDO security keys for device-bound passkeys
- Digital Signature
- Encryption
- Logical and physical access
- Software protection and management
- Cold wallets / cryptocurrency hardware wallet

Parameters

Product name	Infineon ID KEY S USB – SLC38DUA600UC
Product description	System-in-package comprising a SOLID FLASH™ 32-bit security crypto controller and a USB-serial bridge in one single package optimized for multi-application USB devices
Interfaces and protocols	UART, ISO/IEC7816, GPIO, I2C, CAPSENSE™, SWD,USB 2.0
Secure Element CPU Memory Symmetrical cryptography Asymmetrical cryptography	 32-bit Arm® SecurCore® SC300 (100 MHz) 600 kB SOLID FLASH™ NVM, 24 kB RAM DES, Triple DES, AES up to 256-bit RSA up to 4096-bit, ECC up to 521-bit
USB-serial bridge CPU Memory	 Cortex® M0 (48 MHz) 32 kB flash NVM, 4 kB SRAM
Ambient temperature	-25 to + 85 °C
Contact and dual interface package delivery forms	SMD package VQFN-28-4 (4x4x0.85 mm)
Typical applications	multi-application USB security devices and security tokens
Compliance	CC EAL6+ (high) Hardware prepared for FIPS 140-3 composite certification BSI AIS20/31 RNG (PTG.2, PTG.3, DRG.3, DRG.4)

For further information on technology, delivery forms and conditions please contact your nearest Infineon Technologies sales representative (www.infineon.com)

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