

StarSign® USB Token

The user-friendly combination of chip card and card reader



Small token with a large range of applications

StarSign® USB Token belongs to a new generation of manipulation-proof IT security products, designed for cost-effective use in PKI systems. It combines the security features of a chip card with the advantages of USB devices.

StarSign® USB Token contributes to the improved efficiency of IT applications, reduces

costs, and offers optimum flexibility. The token is small, light, and so conveniently sized that it fits on a key chain. It requires no additional reader since it connects directly to the PC via USB interface. In many environments, such as Wireless LAN, it can be used for authentication as an alternative or supplement to the conventional combination of chip card and reader.

An intelligent solution that ensures high-level security

Two-factor authentication ensures that the user can only access the system with the combination of StarSign® USB Token and PIN. Unless both match, the user is not authorized to access the corresponding applications and data.



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StarSign® USB Token offers recognized and certified security. Sensitive information is securely saved on the token. All actions, e.g. encryption or digital signatures, are executed on the token itself. This ensures that private keys cannot be read or copied from the token. Compared to software-based solutions, this provides a considerably higher level of security.

StarSign® USB Token communicates with the PC via USB port (Universal Serial Bus) with a high data transfer rate of max. 119.2 baud. In addition, it supports Plug-and-Play. Power is supplied via the computer's USB interface.

The StarSign® product family

StarSign® USB Token is part of the StarSign® product family, which ensures the efficient

use of IT security systems with its product portfolio of hardware and software components. StarSign® USB Token combines uncomplicated operation with high-level security. It can be used for all conventional PKI applications that are also supported by other StarSign® products.

To test the token's potential and functions, G&D offers a package with a StarSign® USB Token and middleware.

Technical data

Housing

Dimensions: 50 x 17 x 7 mm
Colors: blue, red, green, and violet, additional colors available on request
Material: high-grade plastic housing

USB interface

- USB 1.1
- Data transfer rate of max. 119.2 baud

Card operating systems

Standard:

- STARCOS® SPK 2.3
- STARCOS® SPK 2.4
- 32 KB EEPROM

Optional:

Different card operating systems are possible depending on customer requirements. The available security features and EEPROM size (up to 72 KB) vary with the card operating system:

- STARCOS® 3.0
- Sm@rtCafé® Expert 2.0
- Sm@rtCafé® Expert 3.x
- Sm@rtCafé® Expert 64

Security through chips and card operating systems

The security features vary according to the chip and card operating system:

- Security micro-controller
- Optional with ITSEC, FIPS, or Common Criteria certification
- Hardware random generator for key generation
- Symmetric encryption: DES, 3DES
- Asymmetric encryption: DSA, RSA
- Internal key generation with key length of 512 – 2048 bits

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