# cgCard

The international patented cgCard is the world's first smart card in the form factor of a microSD card. This enables, for example, secure two-factor authentication, smart card log-on, encryption for different mobile devices such as smartphones, tablets and laptops.

The worldwide accepted EAL5 + certification of the operating system and chips guarantees maximum security and compliance. The specially hardened, integrated security chip ensures tamper-proof internal storage of stored data and certificates. The additional memory of 8 GB allows the storage of additional data.

The cgCard is the ideal choice when it comes to integrated security for Windows, Android and IOT devices.
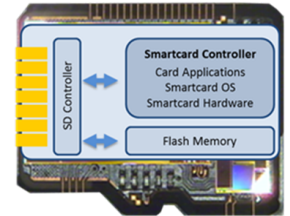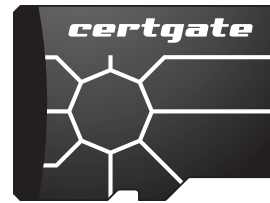
TECHNICAL SPECIFICATIONS

Smart Card Chip:
Infineon SLE 78 with 80 EEPROM
Common Criteria EAL 5+ certified, RNG AIS31, FIPS-140

Smart Card Operating System:
JTop ID, Common Criteria EAL5+ certified

Java Card/ GlobalPlatform:
3.0.4 classic/ 2.2.1

Cryptographic Algorithms:
RSA1024/2048, ECC FP192/224/256/384/512/521
SHA224/256/384/512, AES128/192/256, 3DES

Reliability and Durability
-20 °C to 85 °C operating temperature

Dimensions:
15 mm x 11 mm x 0,7 mm

Original size
(if printed on
DIN A4)

YOUR BENEFITS

- Real smart card, mobile use in all microSD card slots
- Flexible use and customizable with Java card applets
- Hardware secure element, certified according to EAL 5+
- Easy-to-use, mobile certificate store
- Key generation on the smart card (private keys cannot be extracted)

FEATURES

- Common Criteria EAL 5+ certified security chip and operating system
- Java Card 3.0.4
- Global Platform 2.2.1
- RSA up to 2048 bits
- AES 128 to 256 bits, SHA2 up to 512 bits
- True Random Number Generator according to FIPS and AIS 31
- EEPROM up to 80Kbyte
- Can be used on any operating system and platforms supporting Advanced Security Card (ASSD) compliant to specification of SD CARD Association

SOFTWARE, DOWNLOADS & FAQ

In our Online Service & Support area we provide you further documentation and information.

www.certgate.com/support

INTEGRATED SAFETY CHIP

The cgCard smart card in microSD format includes a secure security chip and an additional memory of 8 GB. Thus, different electronic certificates, keys and other information can be stored in the security chip protected against unauthorized access, manipulation and changes. Various applications are securely protected with cgCard, such as authentication of users, mobile and stationary devices, encryption and decryption of documents and emails, electronic signatures, authentication of web applications and secure access to corporate networks (Virtual Private Network (VPN)).

Your private keys are just safe – everywhere.
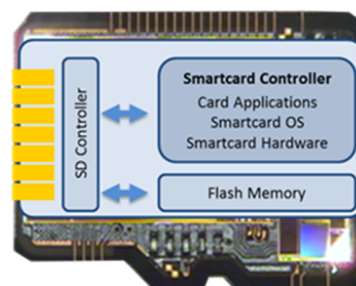
USE CASES

- High-security, hardware-based two-factor authentication with possession (cgCard smart card) and knowledge (PIN)
- Signing and encryption of emails and documents with hardware protected digital certificates
- Authentication to secure web applications for mobile users, partners or customers with digital identities from the cgCard

- Access to a secured network via VPN channel using personal certificates on the cgCard
- Document and data integrity
- Certificate-based encryption of chat, voice communication and data transfer
- And many others...

INNOVATIVE PIONEERING

Since the first patented cgCard, we have constantly developed the technology. Thus, the current type 4 card has 8 GB internal memory and an EAL5 + certification for chip and OS.

SHIPMENT

Minimum order quantity: one unit, includes

- cgCard

Larger quantities:
- Bulk tray (120 pcs.)
- SD adapter on request

INTEGRATION FOR DEVELOPER

Further information on integration:

- SD Card Association (www.sdcard.org)
- Open Source (http://seek-for-android.github.io/)

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