

## Preliminary

## CmCard/μSD 1GB

Article-No:  
1041-02-104

## Description

The CmCard/μSD 1GB is the heart of the CodeMeter Digital Rights Management system in a Micro Secure Digital (SD) Memory Card. It contains a SmartCard chip including a secure memory of about 384 kbyte available for storing thousands of licenses plus additional 1 GB flash memory which can be used as a removable drive. The basic idea of the revolutionary CodeMeter concept is that licenses can be stored for many products even from many different vendors at the same time.

License Options are: Text (description of an entry), Unit Counter (number of runs or actually run time of a license), Activation Time (the license is valid from), Expiration Time (the license is valid until), Usage Period (starts at first time), Feature Map (up to 32 modules or versions), License Quantity (concurrent use / floating network licenses), Protected Data / Extended Protected Data (128x256 bytes read-only data), Hidden Data (128x256 bytes only readable with password; usable as secret/private key), Secret Data (128x256 bytes non-readable, only usable as secret/private key), User Data (unsecured 256 bytes), Customer Owned License Information (256 bytes).

Algorithms: 128 bit AES, SHA-256, 1024 bit RSA, 224 bit ECC.

The used SmartCard chip contains a random number generator according to FIPS140-1 and fulfills EAL 4+ (Common Criteria certified).

## Technical Specifications

- **Interface:** Micro SD(HC) Card, SDA 2.0
- **Data retention:** >10 years @ 2 Mio. program / erase cycles typical
- **Power supply:** 2.7 - 3.6 V bus-powered
- **Temperature:** -25... +85 degree C, non-condensing
- **Case/Dimensions:** 11 mm x 15 mm x 0,7 mm
- **Weight:** 0,5 g
- **Performance:** Read seq. up to 24 MB/s,  
Write seq. up to 23 MB/s

## Certificates

The CmCard/μSD 1GB is tested and qualified with the following standards:

## ■ CE-Conformity | European Certificates

Radiated Emissions according to EN 55022/2003 (DIN VDE 0878 Part22, EN 55022:1998 + A1:2000 + A2:2003.

Immunity according to EN55024 (VDE 0878 part 24): 2003-10; EN 55024:1998 + A1:2001 + A2:2003 against:

Radiated Radio Frequency (RF) and electromagnetic field  
Electrostatic Discharge (ESD), air discharge

Conducted Electromagnetic RF

Fast Transient Bursts

DIN EN 61000-3-2 (VDE 0838 part 2):2001-12;  
EN 61000-3-2:2000

DIN EN 61000-3-3 (VDE 0838 part 3):2002-05;  
EN 61000-3-3:1995 + Corr.: 1997 + A1:2001

## ■ International Certificates

FCC Part 15, Subpart B / VCCI 2003-04 (Japan)

## ■ Other Certificates

VDE / TÜV / GS

UL C-UL-US listed I.T.E. Accessory 10WB, E-File 211202

The encryption device is only for use with UL listed PCs (low power system). Meets UL 60950-1 and CSA C22.2 No. 60950-1 Safety of Information Technology Equipment.

All CmCard/μSD 1GB marked as RoHS are fully compliant according to EC Directives 2002/95/EC (RoHS) and 2002/96/EC (WEEE).

## Ordering Information

P/N 1041-02-104: CmCard/μSD 1GB bulk



RoHS compliant  
WEEE-Reg-No:  
DE 90465365

All dimensions in millimeter.  
Subject to change without  
notice.



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