CmCard/E

**Article-No:
1030-02-105**

Description

The CmCard/E is the heart of the CodeMeter Digital Rights Management system in a ExpressCard|34* hardware device. It contains a SmartCard chip including a secure memory with a minimum of 128 kbyte including about 60 kbyte available for storing more than 1000 licenses plus additional 2 GB flash memory which can be used as a removable drive. The basic idea of the revolutionary CodeMeter concept is that this memory can be used by 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).

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

The embedded SmartCard chip contains a random number generator according to FIPS140-1 and fulfills EAL 4+ (Common Criteria, not certified).

Technical Specification

- **Interface: ExpressCard|34* Standard**
- **CodeMeter license memory:**
    - **Data retention: >10 years at room temperature**
- **Flash memory:**
    - **Data retention: >10 years at room temperature**
- **Power supply: 3,3 V, < 100 mA**
- **Temperature: 0..55 degree C, non-condensing**
- **Case / Dimensions: 75,5 mm x 34 mm x 5 mm**
- **Weight: 16 g**

Certificates

The CmCard/E is tested and qualified with the following standards:

■ CE-Conformity | European Certificates

Radiated emissions 150 kHz…6 GHz:

- EN 55022:2006 + A1:2007
- IEC/CISPR 22:2005, modified + A1:2005 limits for Class B equipment

Immunity: Radiated RF electromagnetic field, electrostatic discharge, injected currents (RF) unsymmetrical and fast transients (burst) unsymmetrical:

- EN 55024:1998 + A1:2001 + A2:2003
- IEC/CISPR 24:1997, modified + A1:2001 + A2:2002

■ International Certificates

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

All CmCard/E are fully RoHS compliant according to EC Directives 2002/95/EC (RoHS) and 2002/96/EC (WEEE).

■ Other Certificates

Listed on USB Integrators List.

VDE License No. 129382

C-UL-US listed I.T.E. Accessory 10 WB, 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.
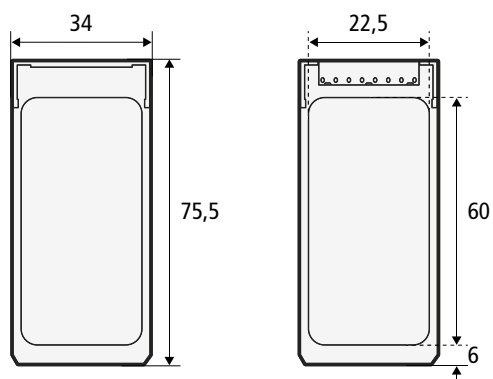
Ordering Information

P/N 1030-02-105: CmCard/E 2GB bulk
Other variants on request.

**RoHS compliant
WEEE-Reg-No:
DE 90465365**

All dimensions in millimeter. Subject to change without notice.

| 34 | 22,5 | 4 | 5 |

| 75,5 | 60 |
| | 6 |

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