DATASHEET

Article-No:

1001-03-151

# CmStick/IV



## Description

The CmStick/IV is the core of the CodeMeter Digital Rights Management system featuring a form factor of an internal USB interface with a standard 2x5 receptacle (2.54 mm pitch). It contains a Smart Card chip including a secure memory of about 328 kbyte available for storing thousands of licenses. 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 include: Text (description of an entry), Unit Counter (number of runs or actually run time of a license), Activation Time (time the license is valid from), Expiration Time (time the license is valid until), Usage Period (starts at first use), Maintenance Period (according to release date), 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 (256 bytes, unsecured), Customer Owned License Information (256 bytes).
CodeMoving enables the execution of encrypted code directly inside the CmDongle, fully isolated from the host system. This protects sensitive code from analysis or tampering.
Encryption algorithms used in firmware 4.52 with serial number 3-3440000 or higher: 128 and 256-bit AES, SHA-256, 1024, 2048 and 4096-bit RSA, 224-bit ECC.
The integrated smart card chip fulfills the evaluation level EAL 5+ (Common Criteria certified) and contains a random number generator.

This CmStick/IV has no LEDs.

## Technical Specifications

The CodeMeter technology is covered by US 7.145.297 and other patents.

- Interface: 2x5 receptacle (2.54 mm pitch), Full Speed USB 2.0 – USB 3.2 compatible
- Communication Protocol: Mass Storage Device (MSD) or Human Interface Device (HID), HID default.
- CodeMeter license memory:
  - Data retention: 10 years at room temperature.
  - Data Endurance:
    - Unit Counter: up to 500 million decrements.
    - Other license parameter: up to 10 million updates to each license.
- Power supply: 5V bus-powered, < 20 mA, typical 10 mA.
- Operating and storage temperature: -25° C ... +85° C, non-condensing
- MTBF (Mean Time Between Failures): > 40 million hours @ 25° C (Siemens SN29500-1:2005)
- Dimensions (L x W x H): 12.7 mm x 5 mm x 21.7 mm
- Weight: 2 g
- Warranty: 36 months

## Certificates

The CmStick/IV is tested and qualified in accordance with the following standards:

## CE-Conformity | European Certificates

CmStick/IV is fully compliant with all applicable European regulations.

- 2014/30/EU EMC Directive: Report Bureau Veritas File CECFPE-WTW-P22020697A R1, 2025-02-07
  - EN55032:2015+A11:2020 / CISPR 32: 2015+Cor 1:2016, Class B
  - EN55035:2017+A11:2020, IEC/CISPR 35:2016
- 2014/35/EU Low Voltage Directive: CB Report UL File E211202-A6001-CB-1, 2025-08-22
  - EN IEC 62368-1:2020+A11:2020
- EU Directive 2011/65/EU (RoHS), 2015/863/EU (RoHS Amendment), 2017/2102/EU (RoHS Amendment), 2012/19/EU (WEEE), 1907/2006/EC (REACH), 207/2011/EU (PFOS -REACH Annex XVII), EU 2019/1021 (POP Regulation), 1272/2013/EU (PAH-REACH Annex XVII), and 1272/2013/EU (DINP-REACH Annex XVII).

## International Certificates

- 47 CFR FCC, Part 15, Subpart B, class B: Report Bureau Veritas File FDCFPE-WTW-P22020697A R1, 2025-02-07
- ICES-003:2020 Issue 7, Class B: Report Bureau Veritas File CICFPE-WTW-P22020697A R1
- VCCI 32-1 Class B g2 ITE: Acceptance No. 2024081018
  - VCCI-CISPR 32: 2016, Class B
- KCC: MSIP-REM-XWK-1001-03-1XY, 2016-02-24
- SJ/T 11364-2024 (China RoHS2)
- BSMI CNS15936: D43250 RoHS, 2025-02-07
- ACMA (RCM): RCM2025021412-K, 2025-02-14
- EAC TP 037/2016: ЕАЭС N RU Д-DE. PA01.B.25142/20

## Other Certificates

- VDE License No. 129382
- C-UL-US listed I.T.E. Accessory 10 WB, E-File 211202, AZOT / AZOT7, 2025-08-22: Report UL E211202-A6001-UL

This encryption device is only for use with UL Listed PCs. It meets UL 62368-1, 3rd Ed and CAN/CSA C22.2 No. 62368-1:19, 3rd Ed Safety of Audio/video, Information and Communication Technology Equipment standards.

## Ordering Information

- P/N 1001-03-151: CmStick/IV bulk

RoHS compliant
WEEE-Reg-No:
DE 90465365

D43250
RoHS

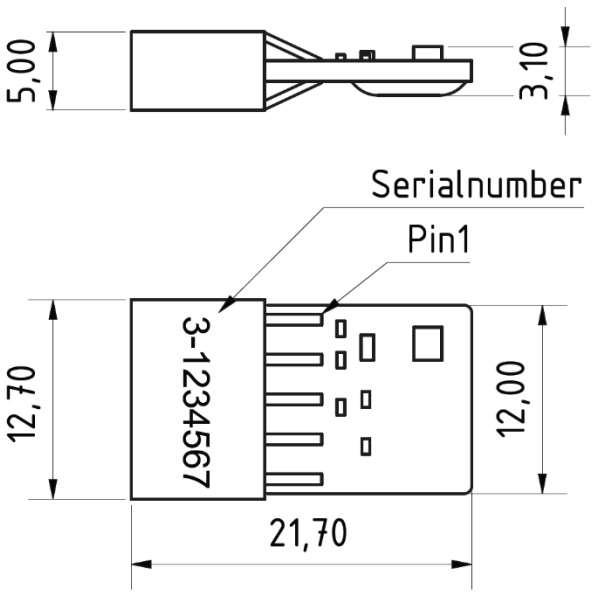
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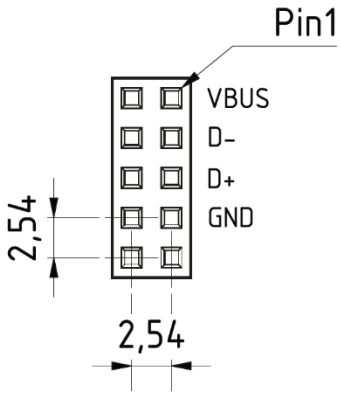
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# Technical Drawing




all other pins are not connected

**All dimensions in millimeters.**

**Subject to change without notice.**

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