WIBU SYSTEMS

Datasheet

CmStick/MI, /MC

Article-No:

1011-03-2xx

1011-03-4xx

Description

The CmStick/MI, /MC represents the heart of the CodeMeter Digital Rights Management system in a USB device form factor with a very small, noble and rugged metal case. It contains a smart card chip with a secure memory of about 328 kbyte available for storing thousands of licenses; the additional flash memory, coming in different capacities, can be used as a removable drive. The basic idea of the revolutionary CodeMeter concept is that licenses can be stored for many products at the same time, with full multi-vendor capabilities.

License Options include: Text (description of an entry), Unit Counter (i.e. 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 (unsecured 256 bytes), Customer Owned License Information (256 bytes). Encryption algorithms used in firmware 4.10 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.

The CmStick/MI, /MC has a green and a red LED. The CodeMeter communication is using HID (with CmRuntime 5.20 or newer) or mass storage communication (MSC, identical to CmStick/M 1011-02-13x).

Technical Specifications

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

- Interface: Hi-Speed USB 2.0 certified, Mass Storage Communication (MSC) 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 one license
- CmStick/MI (industrial) SLC-Flash memory version:
  - Data retention: 10 years at room temperature
  - Data endurance:
    - 100,000 write cycles guaranteed (typ. 1 million)
  - Performance: up to 18 MByte/s write, 22 Mbyte/s read
  - Extended temperature range on request
- CmStick/MC (commercial) MLC-Flash memory version:
  - Data retention: > 1 year at 2,5TBW@85°C (TeraByte written)
  - Data retention: > 3 years at 250GBW@85°C (GigaByte written)
  - Performance: up to 28 MByte/s write, 38 Mbyte/s read
- Power supply: 5 V bus-powered, < 100 mA
- Temperature: 0 °C ... + 70 °C, non-condensing
- MTBF (Mean Time Between Failures): > 3 Million hours
- Case/Dimensions: Noble metal case, 8 mm x 16 mm x 61.5 mm (without cap 56 mm)
- Cap/Dimensions: 7 mm x 16 mm x 18 mm
- Weight: CmStick 24 g (without cap 19 g)
- Warranty: 36 months

Certificates

The CmStick/MI, /MC is tested and qualified with the following standards:

CE-Conformity | European Certificates

CmStick/MI, /MC is fully compliant with all applicable European regulations.

- EMC Report VDE File 2387800-3250-0003/200090, 2014-09-15:
  - EN55022:2010, IEC/CISPR 22:2008 modified
  - EN55024:2010, IEC/CISPR 24:2010
  - EN 55032:2012, AS/NZS CISPR22:2009 + A1:2010

International Certificates

- CB Test Certificate DE1-54874 CISPR 24(ED.2), 2014-11-20
- CB Test Certificate DE1-54888 CISPR 22(ED.6), 2014-11-20
- FCC 47 CFR, Part 15, Subpart B (2013), ETC File 14-12-MAS-151-01
- VCCI Class B ITE, ETC File 14-12-MAS-151-02
- KCC (South Korea): MSIP-REM-XWK-1011-03-XYZ, 2016-02-05

Other Certificates

- 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 specifications.

All CmStick/M are fully compliant according to EC Directives 2011/65/EC (RoHS), PFOS 1907/2006/EC § 33 (REACH, SVHC), SJ/T 11363-2006 (China RoHS) and 2002/96/EC (WEEE), VDE Test Report 214205-EC3-3 dated 2016-02-16

Ordering Information

P/N 1011-03-235: CmStick/MI 2 GB SLC-Flash bulk
P/N 1011-03-431: CmStick/MC 8 GB MLC-Flash bulk
P/N 1011-03-433: CmStick/MC 32 GB MLC-Flash bulk
Variants with different memory capacities, custom cases or laser engravings available on demand.

RoHS compliant
WEEE-Reg-No:
DE 90465365

All dimensions in millimeter. Subject to change without notice.

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WIBU SYSTEMS

Datasheet

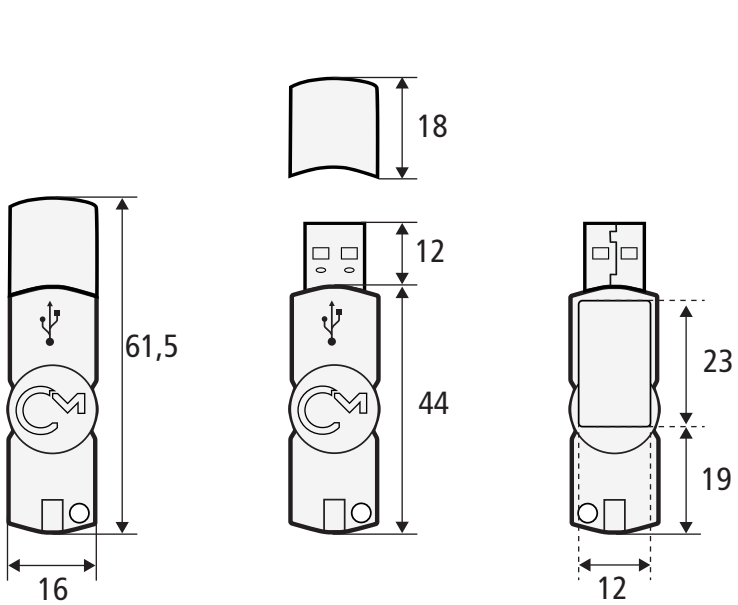
Technical Drawing

Article-No:

1011-03-2xx

1011-03-4xx

RoHS compliant
WEEE-Reg-No:
DE 90465365



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