

CmStick/DMC



Article-No:

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Description

CmStick/DMC represents the heart of the CodeMeter Digital Rights Management system in a USB device form factor with a very small and noble case. It contains a smart card chip with a secure memory of about 328 kByte, which is available for storing thousands of licenses; the additional flash memory, coming in different capacities, can be configured as a removable disk or a private, encrypted disk or a CD-ROM partition or a secure, encrypted disk with CodeMeter API read and write control.

Combinations of the different disks are also possible.

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 (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 time), 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).

Encryption algorithms used in firmware 4.22 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.

Technical Specifications

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

- Interface: USB C-type connector, Super Speed, compatible to USB 1.1, 2.0, 3.1g1
- Communication protocols: Mass Storage Device (MSD), default, or Human Interface Device (HID)
- Flash memory configuration:
 - removable disk
 - private, encrypted disk
 - CD-ROM partition
 - secure, encrypted disk
- 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

MLC flash memory:

- Data retention: > 1 year at 2.5 TBW (terabyte written) at 55 °C
- Data retention: > 3 years at 250 GBW (gigabyte written) at 55 °C
- Performance: up to 40 MB write, up to 148 MB read
- Endurance: 3,000 P/E Cycles (Flash Cell Level)

Power supply: 5 V bus-powered, < 130/180 mA @ USB 2.0/USB3.1

Operating and storage temperature: 0 °C ... + 55 °C, non-condensing

MTBF (Mean Time Between Failures): > 3 Million hours

Case/Dimensions: 32.45 mm x 12.10 mm x 4.50 mm (with USB cap: 33.50 mm x 12.10 mm x 4.50 mm)

Weight: 4.0 g (3.7 g without USB cap)

Warranty: 36 months

Certificates

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

CE-Conformity | European Certificates

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

- 2014/30/EU EMC: Report Bureau Veritas File CE180718D10, 2018-08-15
 - EN55022:2010/AC:2016, IEC/CISPR 32:2015, class B
 - EN55024:2010+A1:2015, IEC/CISPR 24:2010+AMD1:2015
 - EN55032:2015, AS/NZS IEC/CISPR 32:2015
- All CmStick/DMC sticks are fully compliant according to EU Directives 2011/65/EU (RoHS), 2015/863/EU (RoHS amendment), SJ/T 11363-2014 (China RoHS2), 2012/19/EU (WEEE), 1907/2006/EC (REACH), 207/2011/EU (PFOS-REACH Annex XVII), 1272/2013/EU (PAH-REACH Annex XVII), and 1272/2013/EU (DINP-REACH Annex XVII).

International Certificates

- 47 CFR FCC, Part 15, Subpart B (2017), class B: Report Bureau Veritas File FD180718D10
- VCCI Class B ITE: Acceptance No. 2018048608, 2018-09-19
- KCC (South Korea): R-R-XWK-CmStick, 2018-08-08
- BSMI (Taiwan): D43250 RoHS
- ACMA (RCM): RCM20180091804-C, 2018-09-19

Other Certificates

- VDE License No. 129382
- C-UL-US listed I.T.E. Accessory 10 WB (pending, will follow)

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 1011-03-572: CmStick/DMC 16 GB MLC-Flash bulk
 Variants with different memory capacities, custom cases or laser engravings are available on demand.

RoHS compliant

WEEE-Reg-No:

DE 90465365

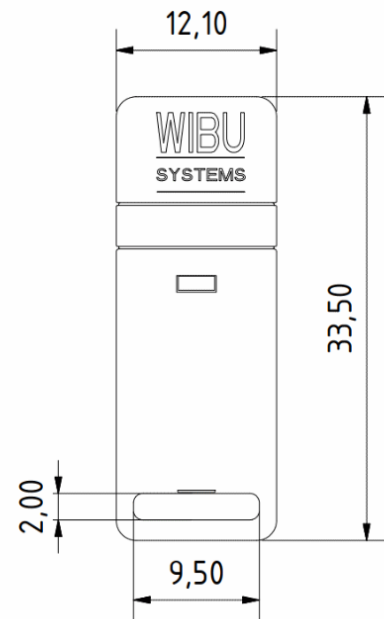
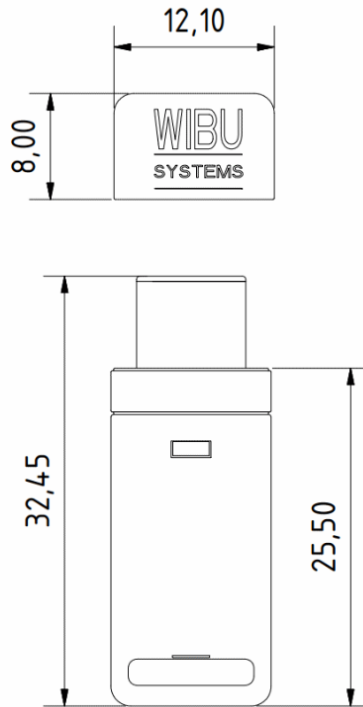
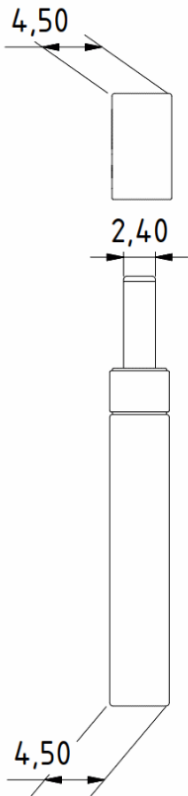


WIBU-SYSTEMS AG
 Rueppurrer Strasse 52-54
 D-76137 Karlsruhe
 Tel: +49-721-93172-0
 Fax: +49-721-93172-22
 info@wibu.com
 www.wibu.com

Technical Drawing

Article-No:

1 0 1 1 - 0 3 - 5 7 2



All dimensions in millimeter. Subject to change without notice.

WIBU-SYSTEMS AG
Rueppurrer Strasse 52-54
D-76137 Karlsruhe
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www.wibu.com