

CmStick/DMI



Article-No:

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Description

Longtime availability of data and robustness in hard environment is one of the most important requirements within industrial applications. Standard MLC Flashes can't fulfill this requirements anymore, so we extended our CmStick/DMC product family with the pSLC (pseudo SLC) functionality. We've optimized our FW algorithms for high read access and long data retention applications, to ensure long data retention at high temperatures. This USB device in a very small, noble and rugged metal case contain all known features from our CmStick/DMC:

A SmartCard chip including a secure memory of about 328 kbyte available for storing thousands of licenses plus additional different sizes of 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 (i.e. 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 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).

Used algorithms in firmware 4.11: 128 and 256 bit AES, SHA-256, 1024, 2048 and 4096 bit RSA, 224 bit ECC.

The used SmartCard chip fulfills EAL 5+ (Common Criteria certified) and contains a random number generator.

The CodeMeter communication is using mass storage device (MSD).

Technical Specifications

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

- Interface: USB 3.1 type C, Mass Storage Device (MSD)
- CodeMeter License memory:
 - Data retention: 10 years at 80°C
 - Data endurance:
 - Unit Counter: up to 500 million decrements
 - Other license parameter: up to 10 million updates to one license
- pSLC-Flash memory:
 - Data retention: > 1year at 2,5TBW@85°C (TeraByte-Written)
 - Data retention: > 3year at 250GBW@85°C (GigaByte-Written)
 - Endurance: 20'000 P/E Cycles (Flash Cell Level)
 - Performance: up to 90 MByte/s write, up to 190 Mbyte/s read
- Power supply: 5 V bus-powered, < 130/180 mA @USB 2.0/USB3.1
- Temperature operating & storage:
 - -40 °C...+ 85°C: USB 2.0, non-condensing

- -40 °C...+ 70 °C: USB 3.1, non-condensing
- MTBF (Mean Time Between Failures): > 3 Million hours
- Case/Dimensions: CmStick, 32,45 mm x 12,10 mm x 4,50 mm, CmStick with protective cover: 33,50 mm x 12,10 mm x 4,50 mm
- Weight: 3,0 g
- Warranty: 36 months

Certificates

The CmStick/DMI is tested and qualified with the following standards:

CE-Conformity | European Certificates

CmStick/DMI 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/DMI 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 1011-03-667: CmStick/DMI 8GB pseudo SLC
Other memory variants, individual cases or laser engraving on request.

RoHS compliant
WEEE-Reg-No:
DE 90465365

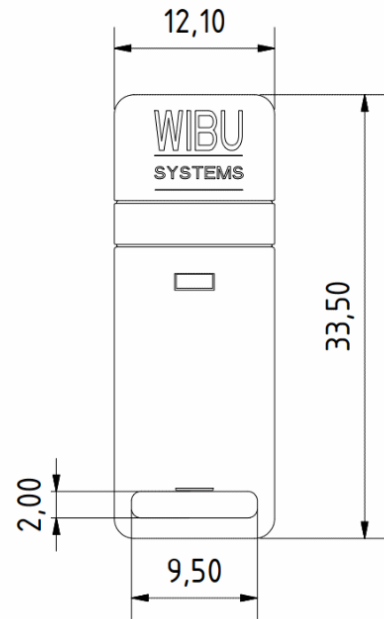
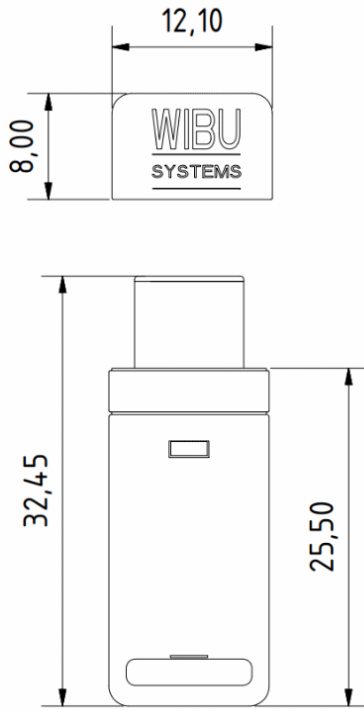
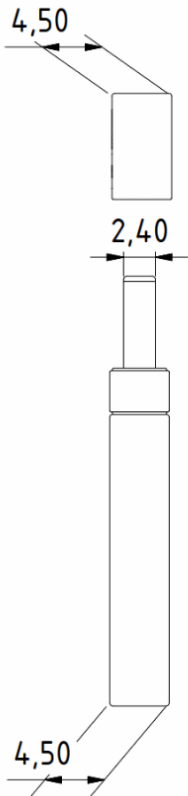


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Technical Drawing

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All dimensions in millimeter. Subject to change without notice.

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