CmStick/BMC

Description
The CmStick/BMC 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 (entry), 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 4.10 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 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 A, Mass Storage Device (MSD)
- 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,STBW@55°C (TeraByte written)
  - Data retention: > 3 years at 250GBW@55°C (GigaByte written)
  - Endurance: 3,000 P/E Cycles (Flash Cell Level)
  - Performance: up to 38 MByte/s write, up to 125 Mbyte/s read
- Power supply: 5 V bus-powered, < 130/180 mA @ USB 2.0 / USB3.1
- Temperature: 0 °C ... + 55 °C, non-condensing
- MTBF (Mean Time Between Failures): > 3 Million hours
- Case/Dimensions: Noble metal case, 12,1mm x 22mm x 4,5mm
- Weight: 3.1 g
- Warranty: 36 months

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

CE-Conformity | European Certificates
CmStick/BMC is fully compliant with all applicable European regulations.
- 2014/30/EU EMC Report Bureau Veritas File CE180718D10, 2018-08-15

All CmStick/BMC units are fully compliant with 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 (DIN-REACH Annex XVII).

International Certificates
- 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

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.

Ordering Information
P/N 1011-03-562: CmStick/BMC 16 GB MLC-Flash bulk
P/N 1011-03-563: CmStick/BMC 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.