

# CmStick/M



Article-No:

1011-02-xxx

## Description

The CmStick/M ME is the heart of the CodeMeter Digital Rights Management system as USB device in a very small, noble and rugged metal case. It contains a SmartCard chip including a secure memory of about 60 kbyte available for storing more than 1000 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. Additionally the CmStick/M ME offers different sizes of flash memory which can be used as a high speed removable drive.

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: 128 bit AES, SHA-256, 2048 bit RSA, 224 bit ECC.

The used SmartCard chip contains a random number generator according to FIPS140-1 and fulfills EAL 4+ (Common Criteria certified). The CmStick/M ME has a green and a red LED.

## Technical Specifications

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

- **Interface: Hi-Speed USB 2.0 certified, USB 1.1 compatible**
- **CodeMeter License memory:**
  - **Data retention: 10 years at room temperature**
  - **Data endurance:**
    - **Unit counter: up to 1.5 billion decrements**
    - **Other licence parameter: up to 500.000 updates to each license**
- **Flash memory (highest quality SLC flash):**
  - **Data retention: 10 years at room temperature**
  - **Data endurance:**
    - **100.000 write cycles guaranteed (typ. 1 million)**
- **Performance: up to 15 MByte/s write, up to 25 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/M ME is tested and qualified with the following standards:

### ■ CE-Conformity | European Certificates

Radiated emissions 150 kHz...6 GHz:

- EN 55022:2006 + A1:2007
- IEC/CISPR 22:2005, modified + A1:2005 limits for Class B equipment

Immunity: Radiated RF electromagnetic field, electrostatic discharge, injected currents (RF) unsymmetrical and fast transients (burst) unsymmetrical:

- EN 55024:1998 + A1:2001 + A2:2003
- IEC/CISPR 24:1997, modified + A1:2001 + A2:2002

Test report from VDE Testing and Certification Institute, File 2387800-3250-0002/120746, is available on request.

### ■ International Certificates

FCC Part 15, Subpart B, File 09047-AU01+E01

VCCI 2003-04 (Japan)

KCC Y7IG-1XTQ-UP4Y-GH4N, XWK-1011-02-xxx (A) (South Korea) July 2010

### ■ Other Certificates

Listed on USB Integrators List.

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.

SGS testing report CE/2008/B5843, December 2008

All CmStick/M ME are fully compliant according to EC Directives 2002/95/EC (RoHS) and 2002/96/EC (WEEE).

## Ordering Information

P/N 1011-02-131: CmStick/M 128 MB bulk

P/N 1011-02-132: CmStick/M 256 MB bulk

P/N 1011-02-134: CmStick/M 1GB ME bulk

P/N 1011-02-135: CmStick/M 2GB ME bulk

P/N 1011-02-136: CmStick/M 4GB ME bulk

P/N 1011-02-137: CmStick/M 8GB ME bulk

Other memory variants and individual cases or laser engraving on request.

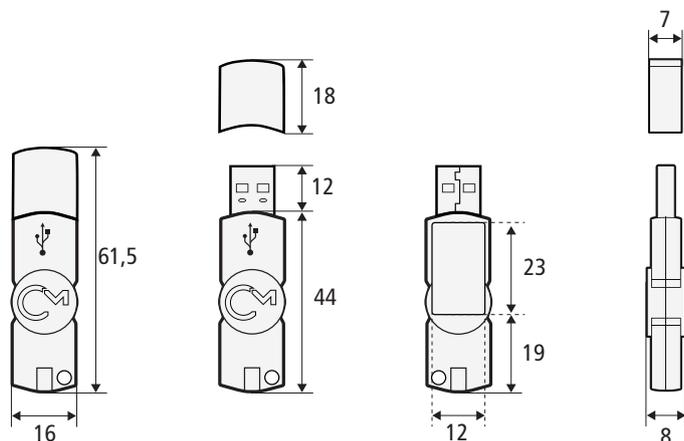


방송통신위원회



**RoHS compliant**  
**WEEE-Reg-No:**  
**DE 90465365**

All dimensions in millimeter.  
Subject to change without  
notice.



**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

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