WIBU SYSTEMS

Datasheet

Article-No:

1043-03-xxx

CmCard/CFast

Description

The CmCard/CFast represents the heart of the CodeMeter Digital Rights Management system in Compact Flash cards. It is equipped with Solid State Drive (SSD) with SATA interface and a smart card chip with 384 kByte secure memory for storing thousands of licenses, as well as additional flash memory for use 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. The minimum set of License Options includes: 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 to), 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 (256 bytes unsecured), Customer Owned License Information (256 bytes).

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

The integrated smart card chip contains a random number generator that complies with FIPS140-1 and the evaluation level EAL 4+ (Common Criteria certified).

Technical Specifications

- Interface: 7+17 pin (SATA+power) CFast connector
- CodeMeter license memory:
  - Data retention: >10 years at room temperature
  - Endurance: >10 million license updates, depending on the license type
- Flash memory:
  - Data retention: >10 years at room temperature
  - Endurance: 2 million program / erase cycles typically
- Power supply: 3.3V, typ. 100 mA
- Temperature: -25 ... +85 degree C, non-condensing
- Case / Dimensions: 36.5 mm x 43 mm x 3.5 mm
- Weight: 10 g
- MTBF > 2,500,000 hours
- Data Transfer Mode: SATA Rev 2.6 - 3 Gbit/s (1.5 Gbit/s compatible), max. UDMA6 MDMA2, PIO4
- High Performance:
  - Up to 300 MB/s burst transfer rate in SATA II -3.0 Gb/sec
  - Sustained Write: up to 120 MB/s
  - Sustained Read: up to 120 MB/s
- Warranty: 36 months

Certificates

The CmCard/CFast is tested and qualified with the following standards:

CE-Conformity | European Certificates

CmCards are fully compliant with all applicable European regulations.

- 2014/30/EU EMC:
  - EN55022:2010, IEC/CISPR 22:2008 modified
  - EN55024:2010, IEC/CISPR 24:2010
  - EN 55032:2012, AS/NZS CISPR22:2009 + A1:2010
- All CmCards are fully compliant with EU Directives 2011/65/EU (RoHS), 2015/863/EU (RoHS amendment), 2012/19/EU (WEEE), 1907/2006/EC (REACH), 207/2011/EU (PFOS -REACH Annex XVII)

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-152-01
- VCCI Class B ITE, ETC File 14-12-MAS-152-02
- KCC will follow (South Korea)

Other Certificates

- VDE License No. 129382
- C-UL-US listed I.T.E. Accessory 10 WB, E-File 211202

This encryption device is only for use with UL Listed PCs (low power systems). It meets UL 60950-1 and CSA C22.2 No. 60950-1 Safety of Information Technology Equipment standards.

Ordering Information

P/N 1043-03-205:	CmCard/CFast	2 GB	bulk
P/N 1043-03-206:	CmCard/CFast	4 GB	bulk
P/N 1043-03-207:	CmCard/CFast	8 GB	bulk
P/N 1043-03-208:	CmCard/CFast	16 GB	bulk

RoHS compliant
WEEE-Reg-No:
DE 90465365

All dimensions in millimeter. Subject to change without notice.

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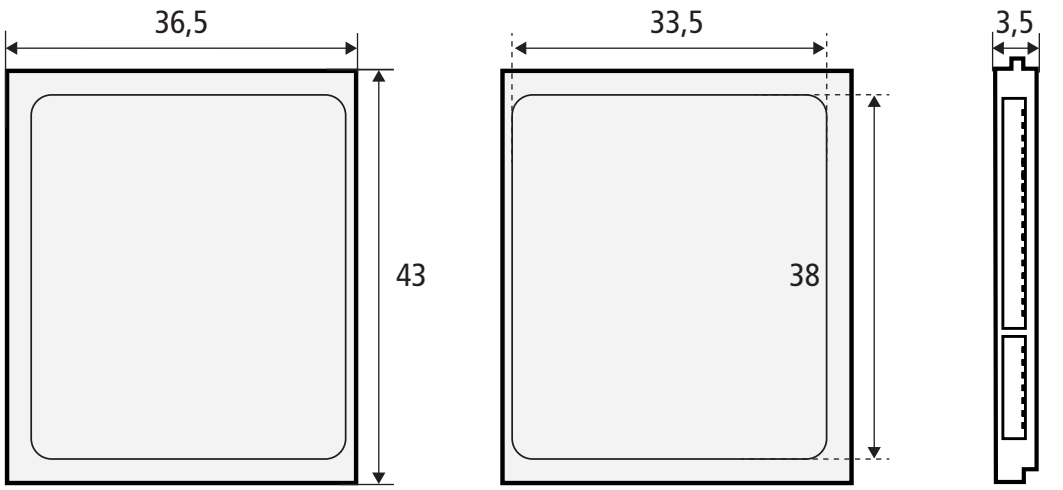
Technical Drawing



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