



SPECIAL

HANNOVER FAIR 17-23 APRIL 2023

 **AIGNEP**

 **AMISCO**

 **az**
pneumatica

 **CAMOZZI**
Automation

 **sesine**
HEAT EXCHANGING EXCELLENCE SINCE 1919

 **DIPLOMATIC**
MOTION SOLUTIONS
a member of **DAIKIN** group

 **epoll**

 **EURAL**
GNUTTI S.p.A.

 **TOGNELLA**

 **fairfilter**
A Quality Filtration Company

 **METAL**
WORK
PNEUMATIC

 **PNEUMAX**

 **VUOTOTECNICA**
www.vuototecnica.net
Your vacuum solutions catalogue

 **WIBU**
SYSTEMS



WIBU-SYSTEMS

Zimmerstrasse, 5
76137 - Karlsruhe (Germania)
Tel. +39 035 0667070
team@wibu.com
www.wibu.com

Hall 16 - Stand B09

Swissbit's Data Protection (DP) line of industrial-grade SD and microSD cards is the first to bear the CmReady certification.

The more the digital world is making its way into our lives, the more integral security becomes to every project. When it comes to protecting and monetizing intellectual property that is made available in the form of digital assets, technology has evolved over the decades from the single option of using dedicated hardware to the introduction of software-based solutions, more recently complemented by new cloud alternatives. Now, with the CmReady line of certified devices, a hybrid option has emerged that will be on sale on the global market as of June.

A fundamental pillar is interoperability

One of the core pillars that have always distinguished Wibu-Systems' technology is interoperability. In practice, this has meant mutually compatible license containers, multi-platform support, the possibility to operate different types of devices within heterogeneous systems, and the integration of many different mainstream back-office solutions. Following this basic principle, CodeMeter technology has provided B2B software developers and the creators of Industry 4.0 solutions with enormous design flexibility over the years. CmReady-certified devices are also true to this goal and represent a complementary option to the USB sticks, memory cards, and ASICs produced by Wibu-Systems and equipped with smart card chips. CmReady memory cards

	CmDongle	CmReady device	CmActLicense
IP Protection	✓	✓	✓
Licensing	✓	✓	✓
Strong Authentication	✓	✓	✓
Mass Storage	Optional	✓	✓
Key Storage	Unremovable inside a smart card chip	In the encrypted license file	In the encrypted license file
Mobile Usage	✓	✓	✓
Easy offline replacement of a broken device/computer	✓	✓	✓
Bound to	USB stick, memory card, or ASIC embedding a smart card chip	Memory device	Endpoint device
Usage counter	Temper-proof inside the smart card chip	In the encrypted license file, using the DP secure hardware	In the encrypted license file, using software anti-tampering methods
Real-time clock	Temper-proof inside the smart card chip	Virtual clock in the encrypted license file	Virtual clock in the encrypted license file
Time-based licenses	Checked against the real-time clock in the smart card chip	Checked against the virtual clock in the memory of the device	Checked against the virtual clock in the memory of the device
Unit lock information	Temper-proof inside the smart card chip	In the encrypted license file, using the DP secure hardware	In the encrypted license file, using software anti-tampering methods

Comparison of hardware license containers (CmDongles), software-based (CmActLicenses), and the new CmReady hybrid solution.

are secure third-party hardware elements designed mostly for industrial applications. As they are not equipped with a dedicated security controller like their CmDongle cousins, they bind the license for the protected software to specific properties peculiar to the product.

Software manufacturers were always recommended to use a hardware license container over a software one for security reasons, and this holds true to this day. In this respect, CmReady stands between the software CmActLicenses and hardware CmDongles. Just as with CmActLicenses, cryptographic keys are stored in an encrypted license file, but unlike CmActLicenses, the licenses are bound to the memory card and not the endpoint, which makes CmReady as mobile as CmDongles. Time is an essential factor for verifying the validity of a license: just like CmActLicenses, CmReady devices use a virtual

clock, compared to CmDongles with the real-time clock built into their smart card chips. Usage counters must also be safeguarded from malicious attacks, which again means that they are kept inside the smart card chip on CmDongles or in the encrypted files in the case of CmReady and CmActLicense containers.

Focus on sustainability to save resources

Attentive also to sustainability, as much in the architecture and facilities of its new headquarters as in its products and their packaging, Wibu-Systems sees CmReady as a way for its users to save resources: those who already use memory cards in conjunction with their embedded or IoT devices will be able to keep using them to also shield their know-how or even commercialize hardware functions with a smart license management strategy.

- Compose your original code
- Orchestrate your license strategy
- Fine tune your IP protection
- Distribute your work of art

Sounds easy, right?
And it is with CodeMeter

CM
License

CM
Certificate
Vault

CM
ActLicense

CM
Cloud

CM
Embedded

