

Subject: CRYPTO-BOX Memory with 8GB Flash Disk

Version: 1.1

Last Update: 24 Aug 2017

Target Operating Systems: Windows, Linux, OS X

Target Processor Platforms: Intel x86

Applicable for Product: CRYPTO-BOX® Memory (CB/M)

CRYPTO-BOX® Memory

The new CRYPTO-BOX Memory contains the proven CRYPTO-BOX technology which provides reliable software protection and license management, plus an 8GB flash disk. This allows software vendors/distributors to ship their software, drivers and additional tools on the same USB device. The flash disk can be accessed and used independently from the CRYPTO-BOX functionality.



CRYPTO-BOX®

- Quick and easy protection of Windows and Linux applications with AutoCrypt
- Individual implementations with API for all common programming languages, incl. .NET
- The CRYPTO-BOX system can be customized according to individual requirements
- Multi-platform support: Windows, Linux, OS X, iOS and Android
- Unique and stable metal case, optional with customer-specific color and labeling
- Internal secure memory of 4-64 kB
- Network and remote update capability
- AES/Rijndael encryption on-chip
- RSA support on-chip (CRYPTO-BOX SC) or on driver level (CRYPTO-BOX XS/Versa)



White Paper

CRYPTO-BOX® Memory

WP-4

Table of Contents

- 1. CRYPTO-BOX® Memory - Overview.....3
- 2. FAQ (frequently asked questions).....3
- 3. Technical Data and Comparison with other CRYPTO-BOX® Models.....4
- 4. CRYPTO-BOX® Certifications.....5
- 5. Contact Details.....5

1. CRYPTO-BOX® Memory - Overview

The CRYPTO-BOX Memory (CB/M) combines the software protection hardware (100% compatible with the CRYPTO-BOX SC model) with an 8GB USB 2.0 flash disk. The additional flash memory offers sufficient space for your software and data. This simplifies the software distribution:

- No optical drive or Internet connection required
- Ideal for industrial environments or transfer of sensitive data
- Bypass CD/DVD manufacturing or on-line maintenance
- Protected software can be started directly without installation
- Content of the flash memory can be updated easily

Both the CRYPTO-BOX functionality and the flash memory can be accessed simultaneously and works independent from each other. This is achieved by an internal 2-port USB hub which serves both the CRYPTO-BOX controller chip and the flash memory.

2. FAQ (frequently asked questions)

Please refer to our webpage www.marx.com/en/faq which answers common questions on the CRYPTO-BOX Memory.

3. Technical Data and Comparison with other CRYPTO-BOX® Models

	CRYPTO-BOX Memory (CB/M)	CRYPTO-BOX SC (CBUR2SC)	CRYPTO-BOX XS (CBUR2XS)	CRYPTO-BOX Versa (CBUR2VS)
Controller chip	RISC Smart Card Processor with USB interface, plus USB2.0 hub	RISC Smart Card Processor with USB interface		
Controller chip certification	EAL4+, WHQL (Microsoft)			
Firmware	proprietary MARX			
Supported operating systems	Windows, macOS, iOS*, Android* (*network mode)			
AES/Rijndael 128 bit, implemented in hardware	✓ 8 keys (more on request)	✓ 3 keys		
RSA 2048 bit support, implemented in hardware	✓ 6 keys (more on request)	- (implemented on driver level, 1 key)		-
Unique Serial Number (BoxName) per device	✓	✓	✓	- (same number per batch)
Network support	✓ (Floating License)	✓ (Floating License)	✓ (Floating License)	✓ (no license management)
Memory size (total)	8 GB flash disk, internal memory: 72 kbyte, ca. 30 kbyte free	72 kbyte, ca. 30 kbyte free	4, 32 or 64 kbyte	4kbyte
Internal memory read / write performance	Flash Disk: 23 MB/s read, 5 MB write CRYPTO-BOX: approx. 80 kbyte/s read/write	read/write: approx. 80 kbyte/s	read/write: approx. 12 kbyte/s	
User-/admin password (PIN/PUK)	up to 16 byte length			
Case & LED	designer metal case, zinc cast, LED showing the operating state, eye for key ring			
Connector	USB Type A			
Memory programming	minimum 100.000 write cycles			
Data life cycle	minimum 10 years			

Conformity and certifications	CE conformity, RoHS, USB Logo	
Measurements	15,5 x 7 x 45,5 mm / 0.61" x 0.28" 1.79"	14 x 7 x 32,5 mm / 0.55" x 0.28" 1.28"
Weight	12,5 g / 0.44 oz	7,5 g / 0.24 oz
Temperature range	0°C to +70°C / 32°F to 158°F	-10°C to +70°C / 14°F to 158°F
Air humidity	0% to 95% relative humidity	

4. CRYPTO-BOX® Certifications



All trademarks are the property of their respective owners.

5. Contact Details

MARX Software Security GmbH

Vohburger Strasse 68
85104 Wackerstein, Germany

Phone: +49 (0) 8403 / 9295-0

Fax: +49 (0) 8403 / 9295-40

sales-de@marx.com

MARX CryptoTech LP

489 South Hill Street
Buford, GA 30518, U.S.A.

Phone: (+1) 770 904 0369

Fax: (+1) 770 678 730 1804

sales@marx.com

www.marx.com