

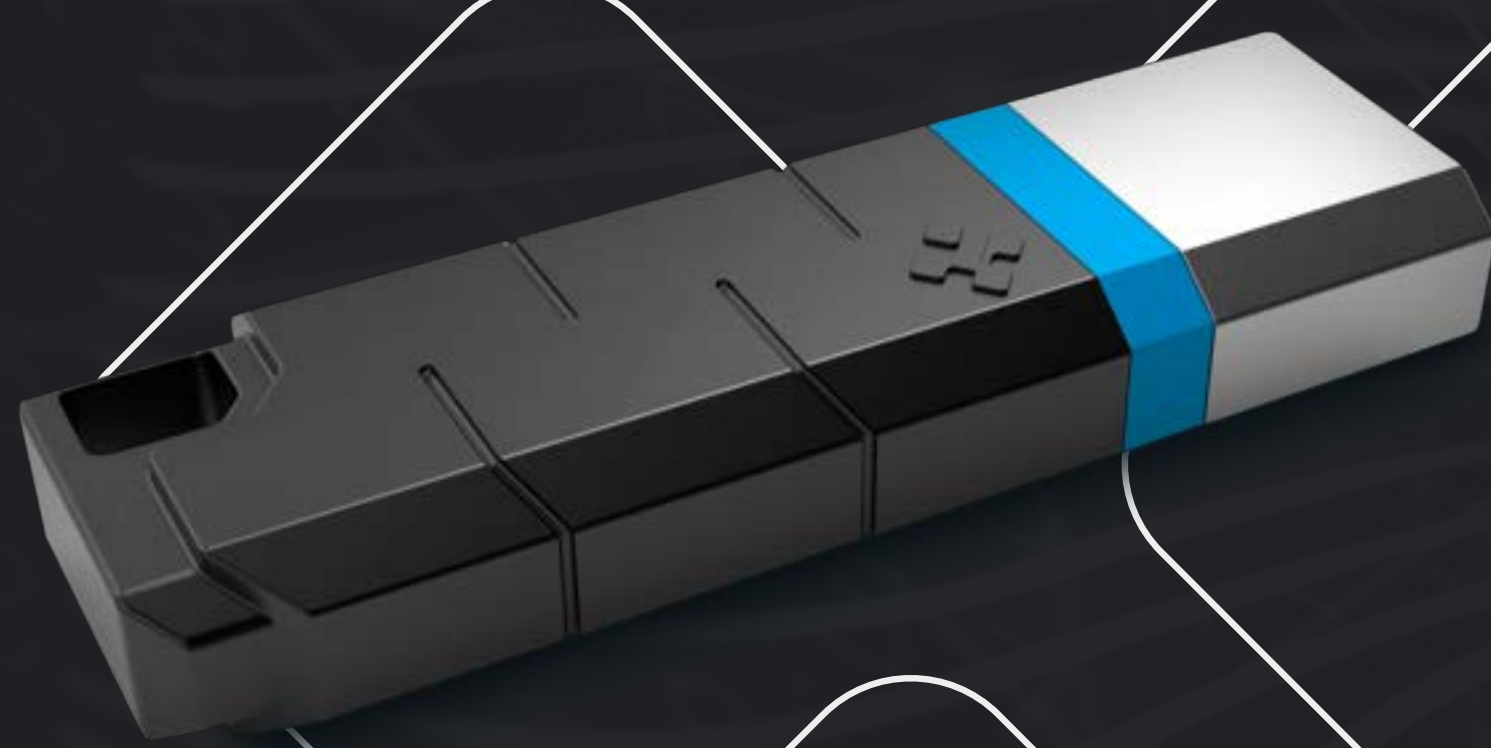
KEYGUARDIAN

ONE-TIME PAD (OTP) ENABLED PORTABLE CRYPTOCOMPUTER



KeyGuardian is a portable hardware security device for the protection of communication, documents, and credentials. It is designed to use standard or customer-defined proprietary algorithms and One Time Pad (OTP) encryption. Bundled with its software, the KeyGuardian provides the following benefits:

- **Document Protection and Signing:** Encrypt files or folders to a specific user or to a group of users.
- **Two-Factor Authentication:** When used as second authentication device, the KeyGuardian adds security to the identification of users in workstations.
- **Network Encryption:** Secure online and real-time communication by using standard software with traffic directed through an encrypted IP connection. The Secure Tunnel encryption can be made entirely inside the hardware device, or only the session key agreement for increased performance.
- **E-Mail/Message Protection:** Protect/Encrypt messages and files exchange via E-Mail and other means of transport.



TECHNICAL SPECS

Supported Algorithms (Cryptography)

Supported Algorithms and Licenses

Algorithm	Details	License
OTP (One Time Pad)	-	Base license
AES	128, 192, and 256 bits keys	Base license
RSA	2048, 3072 and 4096	Base license
Customer Specific Symmetric Algorithm	-	BB-ALGKITKG
ChaCha20	256 bits key	Base License
EdSAFE511 (Kryptus' custom elliptic curve)	64 bytes key	Base License

Local Management KeyGuardian User App

- KeyGuardian User App (KGApp) for the operation and local user management tasks via GUI
- Requires licensing.
- Available as installable or standalone application

Security Administration, KeyGuardian Central (KGCentral) / BruitBlanc Central (BBCentral)

- A configuration and management application. KeyGuardian configuration and management system Administrators use this app
- Requires licensing.

Network Encryption KeyGuardian IP Client License

- A client to manage the KG connection to a encrypted network
- Requires licensing.

Customer Controled Algorithm

- Customer's proprietary symmetric algorithm on-boarding service

Service Licensing P/N: BB-ALGKITKG

Crypto API

- PKCS#11

Security and other features

- Secure storage
- Tamper protection
- Hardware true random number generator (AIS31 P2 compliant)

Physical Specifications

- Dimensions (HxWxL): 10x25x75mm
- Weight: 36g

Operating environment

- Operating temperature: 0 to 50 Celsius
- Max. operating relative humidity 95%
- Storage temperature -10 to 60 Celsius

Storage

KeyGuardian Hardware Versions

P/N	Storage Size
BB-KG32GBOTP	32GB
BB-KG64GBOTP	64GB
BB-KG128GBOTP	128GB
BB-KG256GBOTP	256GB

Performance

- Typical document encryption: 6 seconds
- Typical document signature: 1 second
- Up to 4 signature/s RSA 2048 bits
- Up to 20 Mbps AES file encryption
- Up to 8 Mbps AES network encryption (hardware encryption mode)

Connectivity

- USB 2.0

User Interface

- Graphical Interface for local management
- Command Line Interface

Operational Systems Supported

- Windows 7/8/10/11
- Linux (32 and 64bits)
- MacOS 10.4+

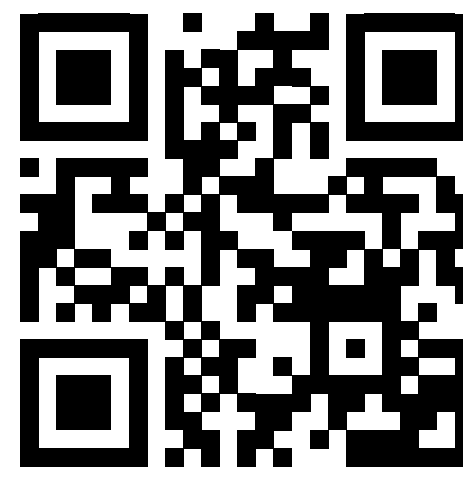


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