

EVIDEN

Trustway Protezione™ NetHSM

**Data Security
Choosing the right path
through compliance**

Protect your Data with compliant devices

Through cybersecurity, companies have the opportunity to foster trust with their customers and partners that extends beyond mere compliance.

Data protection has evolved into a strategic cornerstone of digital transformation journey and, above all, a top priority in company security policy.

By employing a Hardware Security Module, you retain full control over your sensitive data, and the security level remains independent of external factors, in contrast to software-based encryption.

Our range of Hardware Security Modules is compliant, adaptable, and forward-thinking. It delivers to companies and critical infrastructures the assurance of an innovative and resilient architecture that aligns with rigorous security requirements.

Ready to face tomorrow's security challenges, our HSM will support post-quantum algorithms to help you staying ahead of security risks and compliance needs.



Take your security posture to the next level



Data Protection

Data protection solutions empower you to encrypt, manage and control access to your data, regardless of its location (On-premise, Virtual, and Cloud).

The HSM enables you to oversee encryption keys that ensure data security across all levels, including virtual machines, databases, applications, and files.



Authentication

The Hardware Security Module elevates the security of your application, dedicated to access management and authentication.

The HSM ensures high security through access control of your data and the safeguarding of key generators.



Cloud Security

The Hardware Security Module provides a root of trust to cloud services by:

- Securing communication between Private Cloud and the local site.
- Data encryption for on-premise solutions.
- Data encryption for cloud-based solutions.
- On-demand cryptographic services.

Trustway Proteccio™ NetHSM the choice of sovereignty

A highly certified Hardware Security Module (HSM) as the foundation of your security strategy.

Trustway Proteccio™ is a Hardware Security Module (HSM) that offers software solutions within a highly secure and high-performance environment, enabling the execution of the most sensitive cryptographic operations.

This HSM combines robust physical security measures with a cryptographic core adhering to the strictest security standards, making it one of the world's most certified cryptographic modules for integrating into corporate information systems and cloud services.

Its streamlined implementation, tailored for independent deployment, provides critical environments with an ideal solution for ensuring the absolute security of their sensitive data, all at a competitive price point.



Certified cryptography

Having already been implemented in the most vital sectors such as critical infrastructure operators, defense, energy, and telecommunications, Trustway Proteccio™ guarantees that both national agencies and companies benefit from a cutting-edge architecture's reliability and the resilience of a product meticulously crafted to adhere to the world's strictest security standards.



ANSSI QR



NATO SECRET



EU Restricted



CC EAL4+



SOG-IS



eIDAS

Qualification is the French government's recommendation of proven cybersecurity products or services approved by French national cybersecurity agency (ANSSI). There are 3 levels of qualification, the highest being the "reinforced qualification", based on the CC EAL4+ evaluation. Today, Trustway has the only hardware security module with the ANSSI "reinforced qualification" making it the most secure in the world.

Trustway Proteccio™ NetHSM at a glance

Trustway Proteccio's strong partitioning enables secure utilization of the same equipment across multiple distinct applications, facilitating resource optimization.



Virtual HSM

A single Trustway Proteccio™ HSM can support up to eight virtual HSMs. Each virtual HSM operates as an autonomous and secure partition, encompassing access control, user management, cryptographic operations, logs, auditing, and administration.

This strong partitioning capability allows for multiple applications to share a physical HSM while maintaining security levels equivalent to deploying several separate pieces of equipment.

3 roles per virtual HSM

- Security Officer (login thru smart card)
- Auditor (login thru smart card)
- User (Login using password)

Up to 8 virtual HSM

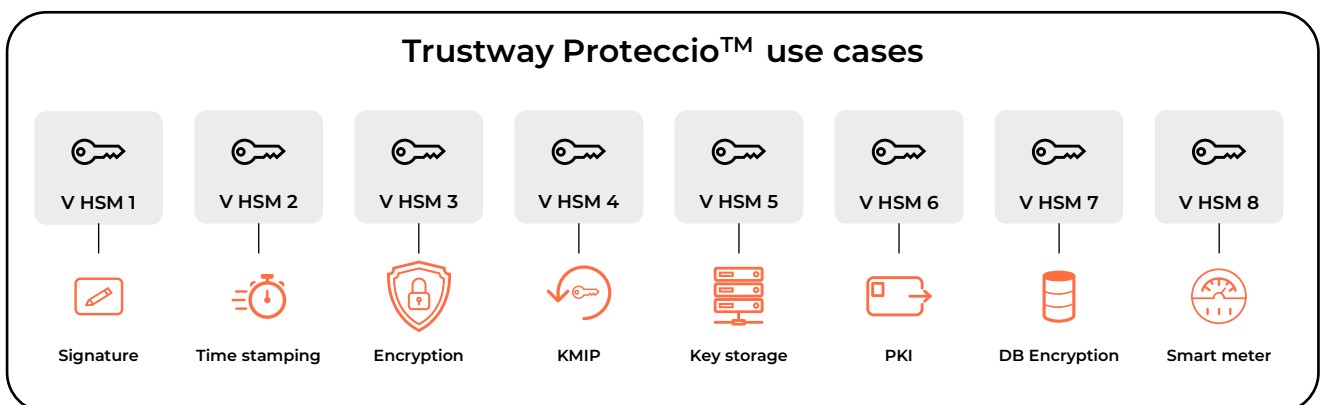
- Cryptographic segregation
- No limitation in terms of numbers of objects

1 link secured by TLS

- TLS v1.2
- Cipher suite DHE-RSA-AES256-SHA256

Load balancing

Trustway Proteccio™ use cases



Ease of installation and administration

Trustway Proteccio™ HSMs manage all the technical and security prerequisites associated with deploying and utilizing hardware technology.

These HSMs, along with their partitions and adherence to security policies, are centrally administered through a single, market-unique application. This ensures both technical independence and unmatched ease of use.

High availability, failover, backup

Associated within clusters, Trustway Proteccio™ HSMs benefit from native mechanisms for high availability and failover, including automatic and secure replication of keys on all members of the cluster. The backup and restore features also permit simplified implementation of recovery plans.

Trustway Proteccio™ NetHSM models

Addressing the distinctive needs of each organization, we provide a diverse range of Hardware Security Module solutions.

Recognizing that optimal security involves various encryption solutions, the Trustway Proteccio™ range offers multiple products to meet your cryptographic requirements.

The quantity of sensitive data managed by an organization can fluctuate significantly based on the scope of operations, the diversity of services offered, the number of users or clients, and the nature of the business itself.

So, depending on the volume of sensitive data to secure, our Hardware Secure Module is available in three different models : EL, HR and XR. Leveraging identical hardware, its performance will be tailored to more effectively meet your specific requirements.



Technical specifications

Physical characteristics

- 2U 19in. Rack mount appliance
- Dimensions (cm): H88 x W435 D350
- Weight: 11kg
- Voltage : 100-240v, 50-60Hz
- Temperature : operating 0°C-40°C
- Relative humidity : 1% to 90% (38°C) non-condensing
- Redundant power supply

Cryptography

- Asymmetric encryption: RSA
- Symmetric encryption: AES 128 to 256, 3DES
- Electronic signature: RSA PSS, PKCS v1.5, ECDSA
- Post-quantum algorithms (by 2024)
- Hashing: MD5, SHA-1, SHA 256, SHA 384, SHA 512
- Supported named curves: ANSI, NIST, ANSSI and all curves up to 521 bits, including Brainpool curves.



Performances

Chiffrement AES 256
Signature RSA 2048bits
Signature Ecdsa 256bits

EL
Up to 100 Mbits/s
Up to 100 sign/s
Up to 400 sign/s

HR
Up to 200 Mbits/s
Up to 1000 sign/s
Up to 2000 sign/s

XR
Up to 300 Mbits/s
Up to 4000 sign/s
Up to 4000 sign/s

EVIDEN

About Eviden¹

[Eviden](#) is a next-gen technology leader in data-driven, trusted and sustainable digital transformation with a strong portfolio of patented technologies. With worldwide leading positions in advanced computing, security, AI, cloud and digital platforms, it provides deep expertise for all industries in more than 47 countries. Bringing together 53,000 world-class talents, Eviden expands the possibilities of data and technology across the digital continuum, now and for generations to come. Eviden is an Atos Group company with an annual revenue of c. € 5 billion.

¹ Eviden business is operated through the following brands: AppCentrica, ATHEA, Cloudamize, Cloudreach, Cryptovision, DataSantics, Edifixio, Energy4U, Engage ESM, Evidian, Forensik, IDEAL GRP, In Fidem, Ipsotek, Maven Wave, Profit4SF, SEC Consult, Visual BI, Worldgrid, X-Perion. Eviden is a registered trademark. © Eviden SAS, 2023.

About Atos

Atos is a global leader in digital transformation with 105,000 employees and annual revenue of c. € 11 billion. European number one in cybersecurity, cloud and high-performance computing, the Group provides tailored end-to-end solutions for all industries in 69 countries. A pioneer in decarbonization services and products, Atos is committed to a secure and decarbonized digital for its clients. Atos is a SE (Societas Europaea) and listed on Euronext Paris.

The [purpose of Atos](#) is to help design the future of the information space. Its expertise and services support the development of knowledge, education and research in a multicultural approach and contribute to the development of scientific and technological excellence. Across the world, the Group enables its customers and employees, and members of societies at large to live, work and develop sustainably, in a safe and secure information space.

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