



# IDEMIA Secure Transactions Enters the \$1.2B Hardware Security Module Market with a Revolutionary, Sovereign, and Energy-Efficient Solution

IDEMIA Secure Transactions (IST) breaks new ground in cybersecurity with IDEMIA Sphere HSM launch, the second milestone of its cybersecurity suite unveiled in July this year. This strategic expansion marks IST's foray into the booming Hardware Security Module market to offer organizations unique and flexible protection for their most critical assets – data and transactions.

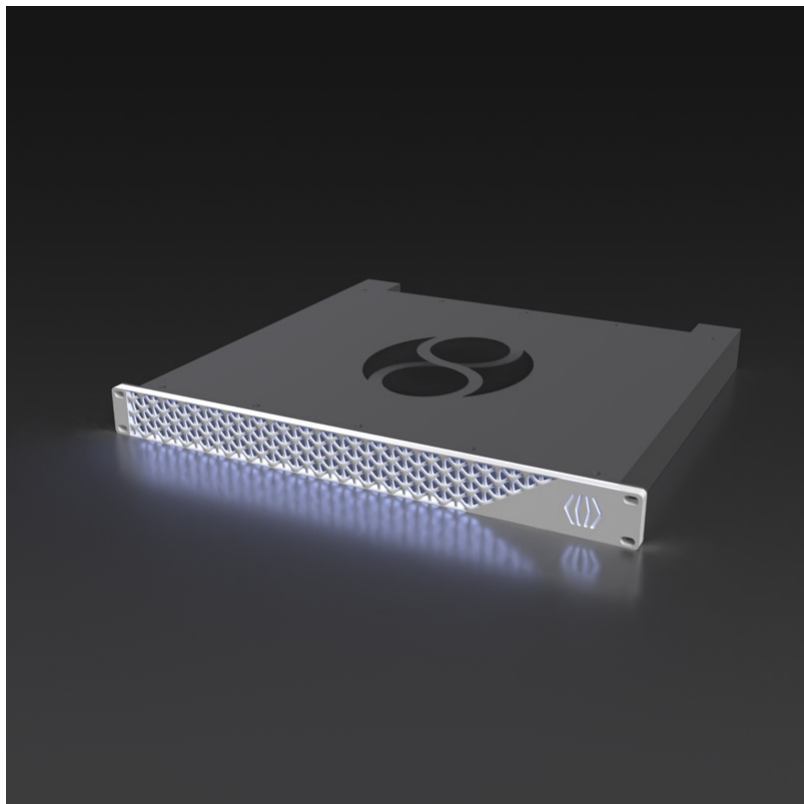
# CYBERSECURITY

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As the digital landscape continues to evolve, with the proliferation of connected devices, digital payments, and the growing threat of cyber-attacks, the imperative to secure data and services has never been more important. Organizations across financial institutions, healthcare, cloud, retail, manufacturing, as well as other mission-critical organizations face this unprecedented security challenge, relying more than ever on HSMs to safeguard their most sensitive data and transactions.

By safely creating, storing, and managing cryptographic keys, Hardware Security Modules (HSMs) serve as the foundation of trust of our digital society. They enable secure encryption, user authentication, digital signatures, and identity protection, the essential building blocks that keep our world safe.

IDEMIA Sphere HSM leverages decades of proven expertise in security solutions and real-world validation through successful deployment in IST's own operations. It will empower organizations to confidently navigate today's challenges, including post-quantum migration and evolving regulatory requirements.



## A Revolutionary, Cost-Smart, and Sovereign Solution

IDEMIA Sphere HSM offers **a disruptive approach to security**. Unlike traditional designs, IDEMIA Sphere HSM is based on a matrix of Secure Elements, creating the first architecture of its kind that eliminates the need for a single processor. This layered security approach and unique distributed architecture not only make the system significantly harder to compromise but also allow organizations to scale seamlessly – from small deployments to enterprise-wide deployments. This breakthrough makes IDEMIA Sphere HSM the most versatile solution on the market, based on state-of-the-art cryptography, that ensures both resilience and trust at every level.

IDEMIA Sphere HSM also **limits energy consumption and infrastructure costs**. Consuming only half the power of conventional HSMs, it delivers measurable environmental benefits<sup>1</sup> while helping organizations advance their CSR commitments. Moreover, the distributed architecture enables companies to tailor the number of Secure Elements to the exact computing power required, optimizing performance and paying only for the capacity they use as their business grows, all while maintaining full ownership of their keys. Finally, its streamline design further reduces deployment costs and operational complexity by eliminating the need for costly requirements, like fans or battery replacements, typical for traditional HSMs, thus lowering total cost of ownership and ensuring long-term sustainability.

IDEMIA Secure Transactions strives to provide organizations with secure, recognized solutions capable of meeting the challenges of the present and the future. IDEMIA Sphere HSM is no exception: engineered, designed, and pre-configured in France, it ensures customers **complete sovereignty and transparency for mission-critical systems**. Natively aligned with stringent European data protection, security directives, and top-tier certifications<sup>2</sup>, it also ensures compliance across regulated industries, including Defense. To face the upcoming rise of quantum computing, the solution is post-quantum ready by design, empowering organizations to confidently navigate the challenges of today and tomorrow's threats.

## A Strategic Market Expansion for IDEMIA Secure Transactions

IDEMIA Secure Transactions is strategically expanding into the HSM market to offer organizations comprehensive and flexible protection for their most critical assets. With decades of cryptographic expertise and significant R&D investments, IST will leverage its extensive customer reach of financial institutions, mobile network operators, and IoT companies, all major HSM solution users, as a springboard to scale.

The Hardware Security Module market, reaching US\$1.2 billion by 2026 and expanding at a solid growth rate<sup>3</sup>, underscores the critical demand of a trusted foundation that enables secure encryption, authentication, digital signatures, and certificates.

*Today marks a pivotal moment in IDEMIA Secure Transactions' journey. Building on our proven expertise in secure credentials, we are now revolutionizing the entire HSM landscape with IDEMIA Sphere HSM – a game-changing solution that delivers uncompromising security and complete sovereignty while reducing operational costs for our clients. This breakthrough represents everything we stand for: relentless innovation to deliver cutting-edge technologies which empowers organizations to effectively and efficiently protect their sensitive data. This achievement firmly positions us at the forefront of the cybersecurity revolution, and I'm incredibly proud of what our teams have achieved.*

Philippe OLIVA, CEO of IDEMIA Secure Transactions

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<sup>1</sup> IDEMIA Sphere HSM typical energy consumption is 50W, versus the average power consumption of a traditional HSM is typically around 100 W under normal load.

<sup>2</sup> The solution has achieved top-tier certifications including National Institute of Standards and Technology (NIST) FIPS 140-3 Level 3.

<sup>3</sup> Source: ABI Research

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**About IDEMIA Group** - IDEMIA Group is a global technology leader with more than 12 500 employees worldwide. Its two market-leading divisions deliver mission-critical solutions that simplify and secure interactions in the physical and digital realms:

- IDEMIA Secure Transactions (IST) is the leading technology provider making it safer and easier to pay and connect. With unmatched expertise in cryptography and credential issuance, IST is trusted by over 2000 financial institutions, mobile operators, automotive manufacturers, and IoT providers worldwide. Every day, IST secures billions of essential transactions, ensuring the highest levels of data protection and convenience.

- IDEMIA Public Security (IPS) is a trusted provider of government-grade and secure biometric-based solutions for 600 government, state and federal agencies. With decades of experience in biometric technologies, IPS enables safer, frictionless and fairer ways to secure travel, access and citizen protection.

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