



SYPHER SIGNATURE™

Key Management & BlackBox Programming Service

Secure and trusted programming of your technology secrets at the chip manufacturing level.

SypherMedia International, Inc. (SMI) is dedicated to solving the growing security issues faced by companies handling sensitive data and high-value content. Operators, Consumer Electronic (CE) and computer companies need a method to protect their valuable code and investment while Security Providers, Conditional Access Systems (CAS), and Digital Right Management (DRM) vendors need a method to protect data and content distribution.

SMI's Sypher Signature™ BlackBox Programming Services can be used to support operators, broadcasters, CE/ computer companies and CAS/ DRM vendors wishing to add additional security to their systems. Our technology enables the use of high security features and functions native in the System on Chip (SoC) and module. This service provides a hardware root of trust for strong authentication of third-party secrets. Compatible with existing security systems, Sypher Signature™ BlackBox Programming enables our customers to take control of the security in their systems by owning their own secret keys. The customer can manage and allocate symmetric and RSA keys used for data and Intellectual Property protection as desired.

SMI is the only independent third party providing device IDs and Secret Key Programming services on SoC and module manufacturing lines. With over 60 licensed customers and agreements with 11 different SoC vendors, SMI offers custom programming solutions to any operator, CE/ computer company or CAS/ DRM vendor needing additional security.

SECURITY THROUGH TECHNOLOGY™

"Sypher Signature™ BlackBox Programming Services provide an efficient, trusted resource to exploit device-unique secrets and provide high integrity content protection solutions. With a complete package of services and covering a wide range of SoC devices, SMI becomes an integral part of our multi-network security infrastructure."

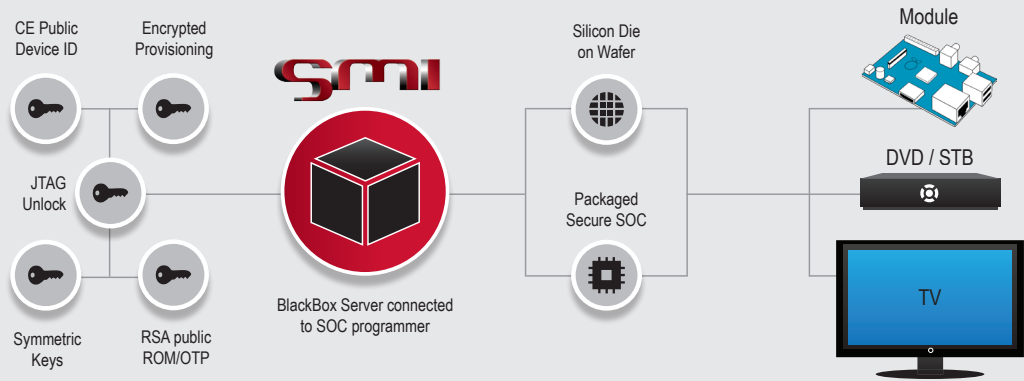
Steve Christian,
Vice President of Marketing – Verimatrix Inc.

"Sypher Signature™ BlackBox Programming Services provide our devices with rich security features that would be otherwise impossible. This greatly increases the product's value to our customers, and improves the end user's experience."

Philippe Notton,
Group Vice President and General Manager,
Consumer Product Division – STMicroelectronics

"Sypher Signature™ BlackBox Programming Services provide ABS-CBN with added security to our broadcast infrastructure across all of our platforms. It also provides ABS-CBN with a significant level of flexibility with the large number of Chip vendors supporting this service."

Sherry Ann Supelana,
Head of Global Engineering & Technical Services – ABS-CBN



SMI's BlackBox server programs devices and wafers directly on the fab's production line.

Programming your secrets into devices is easier than ever because the SMI BlackBox server already resides on production lines of most SoC vendors.

Sypher Signature™ provides advanced Computer and Consumer Electronics Device data, intellectual property and content distribution protection.

Advanced data and content distribution protection requires that embedded security features are enabled and specific information to be loaded into the chips. Normally, access to programming services of unique IDs and Secret Keys is reserved for high volume security vendors who independently develop their own infrastructure. SMI is in the unique position to offer Sypher Signature™ BlackBox Programming Services for virtually any SoC and module vendor. SMI provides a common interface and access to secure silicon features incorporated into today's devices allowing customers to maximize security in their systems and selection of a wide variety of SoC and module manufacturers to suit their CE device and computer needs.

ABOUT SMI

SMI is dedicated to developing point-wise and turnkey technology products and services that address today's security issues. Founded in 2003 by a team of veteran media security and content protection executives and engineers, SMI has quickly emerged as the market leader for global technological security needs for operators, content protection companies, media outlets, consumer electronics companies and others. SMI is a full-service, California-based corporation dedicated to developing security technology products and services that address content and data protection.

We offer expertise in the areas of:

Unique and patented technologies for Hardware and Software Intellectual Property protection

Circuit Camouflage: Hardware based Standard Cell and Custom Cell library design styles

Security Architecture Systems design and development for Content Delivery Systems

Secure Data and Content Distribution for high value assets

Key Management & BlackBox Programming

Third Party security device programming for SoCs and modules on chip manufacturing lines

Consulting & Product Evaluation Services

Experienced team of security developers spanning a wide array of systems offering Architecture and Integration services

Features & Benefits

- Enables use of high security features and functions
- Hardware enforced access to secure silicon features
- Highly secure, cost effective way to add security to CE devices and computers
- Embedded RSA key allows third party customers to sign their code
- Third party symmetric key for customer use during CE device and computer provisioning
- Licensable Crypto Library for boot loader protection
- Protects Customers' boot and application code
- Supports any security or CAS/DRM vendor
- Prevents Custom software from being exported into another device or module
- Enables the Customer to own their Secret Keys, providing flexibility in choice of security providers
- Enables CAS Vendor Switching for fielded CE devices



For more information regarding SypherMedia International and our technologies, please contact us at the following:

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