



SentriX™

Embedding Security for a Connected World

The Problem:

“Internet-of-Threats” are vulnerable to:




- IP theft
- Product cloning
- System hacking
- Weaponization

The Solution:

An integrated solution to embed security roots-of-trust in silicon early in manufacturing using:

- Authentication devices
- Secure elements
- Secure microcontrollers

Hardware Based Security is the Only Truly Secure Approach

	No Security	S/W Based Security	H/W Based Security
 Root-of-Trust			
 Reading of Code			
 Code Analysis			
	Open and Easily Hacked	Secures against basic software attacks. Vulnerable to physical hardware attacks	Secures against physical hardware attacks and hardens against software attacks

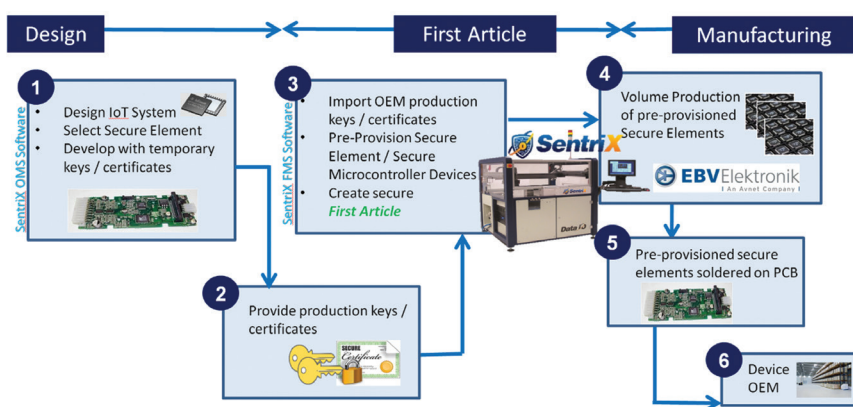
Secure Element Personalization

- OEM Key Material Management Tools
- Read Silicon Vendor Device Certificate and Authenticate Device
- Create and Sign OEM Device Certificate
- Public Key Authorization
- Private Key Injection
- OEM Key Authentication

Secure Microcontroller Provisioning

- OEM Key Material Management Tools
- Read Silicon Vendor Device Certificate and Authenticate Device
- Create and Sign OEM Device Certificate
- OEM Secure Bootloader: Embedded Firmware Loaded and Run by Secure Bootloader during and after manufacturing
- Software Tools for OEM Mastering in Development and Factory Management in Production

Securing IoT Devices from Hardware Design through Production & Beyond with SentriX



SentriX™ Platform Features

- Secure flow of OEM IP (key material, boot loaders, firmware, production count) from OEM to factory
- Secure job creation
- Identity and Authentication - create and program keys and certificates; authenticate certificates
- Program firmware in secure storage and bind it to secure execution
- Lock device
- Comprehensive IC component traceability
- Integrated multi-tenancy Hardware Security Module
- Automated Security Provisioning System scalable for low to high volume applications

Data I/O, the leader in semiconductor security provisioning and data programming, partners with industry leaders throughout the ecosystem to secure silicon cost-effectively for 1 unit to millions in volume production

The SentriX™ Platform embeds a strong foundation of security, roots-of-trust and authentication in manufacturing to deliver a secure supply chain for trusted devices.

