



**WIS@battery™**

**Powerful Security**

**WIS@key**  
Building Trust in the Connected World

## BRAND REPUTATION

Fake batteries hurt the corporate bottom line beyond just the profits lost to the illegitimate devices, they can also destroy brand reputation by delivering poor performance or even causing personal damage to the end users.

With the combination of secure hardware modules, trusted identity software, and design customization services, the **WIS@Battery** platform is ideally suited to defend your products and your brand.

## WIS@Battery VAULTIC

The **VaultIC** security module embeds a complete firmware dedicated to IP protection and anti-cloning. This firmware uses a variety of cryptographic mechanisms such as digital signature generation/verification to provide a number of protection and authentication functions. It embeds on-chip non-volatile data storage capabilities for keys, certificates and customer data.

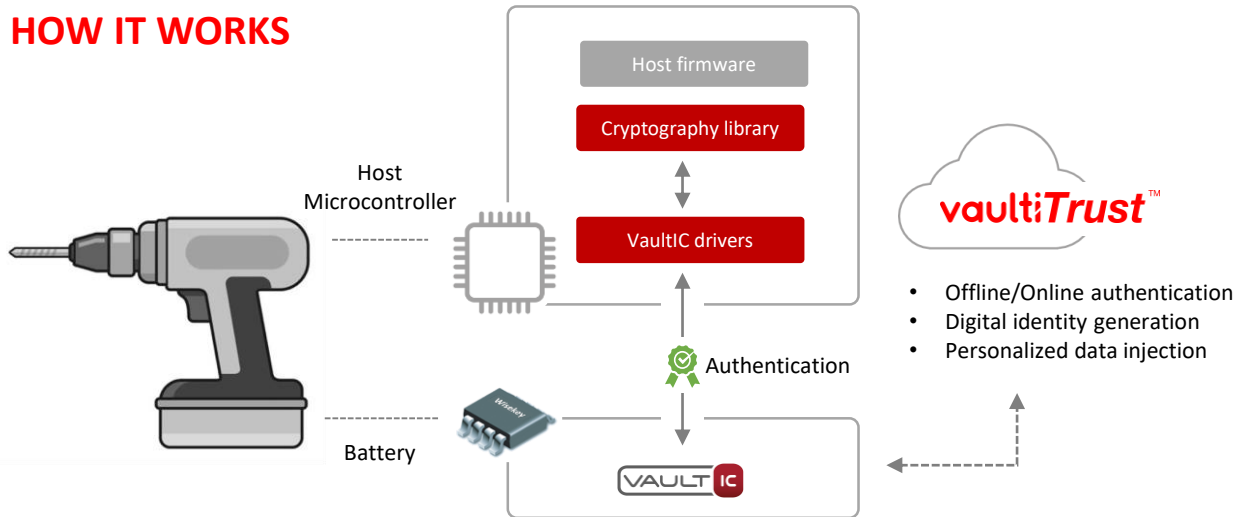
The robust security features and tamper resistant capabilities make the **VaultIC** compliant to Common Criteria EAL5+ and FIPS 140-2 Level 3 certifications. Its low-power consumption profile is a significant advantage for battery-powered systems.

Available in tiny packages, with a one-wire communication interface, the **VaultIC186** is certainly the best fit with **WIS@Battery**.

## KEY FEATURES

- Battery pack authentication:
  - Secured unique digital ID
  - Tamperproof VaultIC chip
- Digital ID life cycle management:
  - Proven PKI (Public Key Infrastructure)
  - Suited to high-volume manufacturing
- High-speed authentication
- Customization as a service (architecture, firmware, hardware)
- Secure generation and injection of digital identity into VaultIC secure element (**VaultiTrust™**)
- Offline or online authentication

## HOW IT WORKS



## SECURE PERSONALIZATION

**WISeKey** enhances the security and efficiency of any connected system by offering the provisioning of secure elements as a service. Once generated by **WISeKey** or its customers, personalization data are entered into **VaultiTrust** secure web portal. They can then be individually injected into the **VaultiC** either at wafer level or in tags enabling end-to-end tracking.

This is all managed in a Common Criteria EAL5+ and ISO27001 certified manufacturing environment.

## CUSTOMIZATION SERVICES

Over 40 years of expertise in digital security design is available to you. **WISeKey** supports customers from specification to deployment with customization services including:

- **WISeArchitect** helps customers design consistent security architectures from device-to-cloud.
- **WISeDeveloper** offers custom security firmware & software development from chip-to-server.
- **WISeDesigner** sits on **WISeKey**'s long expertise in secure chips and package design. It gives you a way to tailor the heart of your system.

## EASY START - FAST INTEGRATION

**WISeKey** provides a complete starter kit to make any battery protection design straightforward with **WISeBattery**. From **VaultiC** samples to cryptography, communication and integration software libraries, a full package is at your disposal to shorten your time-to-market. If it's not enough, **WISeKey**'s experts are by your side to organize trainings and, if needed, customize our technical proposal to match your requirements.

December 2019

**WISeKey**  
Building Trust in the Connected World

Contact: [sales@wisekey.com](mailto:sales@wisekey.com)  
<https://www.wisekey.com>