

OPTIGA™ Trust SLS 10ERE

Your Authentication Solution for Improved Security and Lower System Costs

Infineon Technologies' SLS 10ERE as part of the OPTIGA™ Trust family is an authentication product that offers a robust cryptographic solution, designed to assist system manufacturers to prove the authenticity, integrity, and safety of their original products.

As a turn-key solution it provides enhanced protection against aftermarket replacements and helps to maintain authenticity to your solution. With its innovative asymmetric cryptography approach, it significantly reduces system costs while increasing the overall security of the solution.

The SLS 10ERE is designed for embedded systems which use its security and highly reliable authentication features. It protects the systems from unauthorized accessories, replacement parts or disposables. Unauthorized accessories are easily identified and, appropriate next actions can be triggered. In addition, unauthorized re-use or re-provisioning of original parts is recognized using its data authentication feature.

Main Features

- Strong asymmetric cryptography with ECC 163bit key length
- Turn-key solution including host side software for easy integration
- 3.5kbit user NVM
- Easy to implement Single-Wire host interface
- Unique asymmetric key pair per chip
- Session key feature
- Size optimized USON-3 package (2 x 3mm)

Application Use Cases

- Printer Cartridges
- Accessories
 - Earphones, speakers, docking stations, game controllers, chargers
- Peripherals (adaptors, etc.)
- Original replacement parts
- Diagnostic & medical supply equipment

OPTIGA™ Trust SLS 10ERE

Your Authentication Solution for Improved Security and Lower System Costs



Improved security

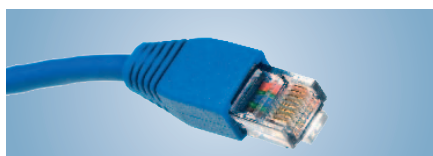
- With state of the art asymmetric elliptic curve authentication principle
- With uniqueness provided by chip individual key pair



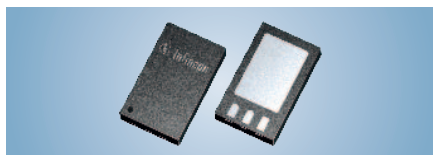
Optimized system costs with 1 chip solution



Easy integration due to full turn key solution



Lean and easy connectivity with Single Wire Interface



Smallest foot print using USON-3 package

Embedded security systems' partner of choice

Infineon is an innovative and long-standing supplier of hardware-based security solutions. Leading the security IC and security system market for more than 15 consecutive years, embedded security suppliers can trust on a stable and innovative supplier.

Infineon is the leading manufacturer of TPM (Trusted Platform Module) for the past 10 years. This experience, know-how and market experience greatly support the fulfillment of requirements in the embedded security market and position Infineon as the global leader for security products and solutions.

With a global support network and multiple production sites, Infineon effectively serves projects around the world. Infineon is the preferred supplier for many embedded security solutions. Our continued investments in R&D propel innovation and maintain Infineon's leadership in the market.

Published by
Infineon Technologies AG
85579 Neubiberg, Germany

© 2013 Infineon Technologies AG.
All Rights Reserved.

Visit us:
www.infineon.com

Order Number: B189-H9817-X-X-7600
Date: 08 / 2013

Attention please!

The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics ("Beschaffenheitsgarantie"). With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation warranties of non-infringement of intellectual property rights of any third party.

Information

For further information on technology, delivery terms and conditions and prices please contact your nearest Infineon Technologies Office (www.infineon.com).

Warnings

Due to technical requirements components may contain dangerous substances. For information on the types in question please contact your nearest Infineon Technologies Office. Infineon Technologies Components may only be used in life-support devices or systems with the express written approval of Infineon Technologies, if a failure of such components can reasonably be expected to cause the failure of that life-support device or system, or to affect the safety or effectiveness of that device or system. Life support devices or systems are intended to be implanted in the human body, or to support and/or maintain and sustain and/or protect human life. If they fail, it is reasonable to assume that the health of the user or other persons may be endangered.