Overview

The development of applications and operating-systems for secure controller ICs can involve substantial amounts of complex software. Debugging target application code executing in real-time in its target processor environment is an essential step to efficiently find and fix difficult-to-detect software bugs.

Ashling’s SmartMRK3-EPK debug probe provides NXP secure controller engineers with a powerful solution to debug code executing on NXP SmartMX3 P71 secure controller ICs. The SmartMRK3-EPK probe is available with an ISO7816 smart card format interface connection.

Secure controller engineers can test and debug their application programs using the Ashling SmartMRK3-EPK probe; the SmartMRK3-EPK will behave like the target secure controller containing the actual ROM-code.

SmartMRK3-EPK

SmartMRK3-EPK is Ashling’s USB2.0 based real-time debug probe:
- Used with NXP Smart Card Composer IDE
- Debug application code executing in real-time in an NXP SmartMX3 P71 device
- Support for all SmartMX3 P71 family devices
- NXP SMD IC device ensures accurate P71 emulation from both a hardware and software perspective
- Contact and contactless card-reader interfacing
  - Supports Voltage Classes A, B and C
- Standalone battery-backed operation

Smart Card Probe Connectors

IN-CLA7816USB-CL1/-CL2

The IN-CLA7816USB-CL1/-CL2 probes support the following smartcard interfaces:
- ISO7816 contact-based (located on the component side)
- Contactless via and an antenna located on the solder side
  - The -CL1 Adapter has a full-sized antenna
  - The -CL2 Adapter has a half-sized antenna
- USB interface via a USB type B connector

Order Codes

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<th>Product</th>
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<tr>
<td>SmartMRK3-EPK Debug Probe for NXP SmartMX3 P71 secure controller family of devices</td>
<td>SmartMRK3-EPK</td>
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<tr>
<td>Contact and contactless smart card format connector with ISO7816 contacts and USB interface: full sized antenna</td>
<td>IN-CLA7816USB-CL1</td>
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