

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

Product	Order Code
SmartMRK3-EPK Debug Probe for NXP SmartMX3 P71 secure controller family of devices	SmartMRK3-EPK
Contact and contactless smart card format connector with ISO7816 contacts and USB interface: full sized antenna	IN-CLA7816USB-CL1
Contact and contactless smart card format connector with ISO7816 contacts and USB interface: half sized antenna	IN-CLA7816USB-CL2