

# OM13589: Demonstration Kit for A1006 Secure Authenticator Solutions

FOLLOW



Overview

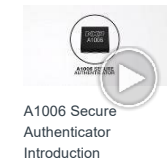
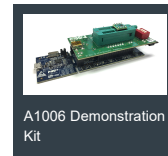
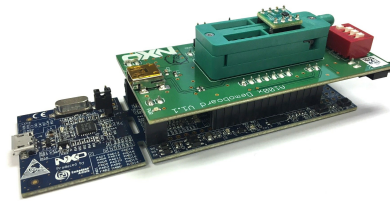
Specifications

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## Overview

The A1006 Demo Kit provides an easy to use GUI interface between a host system (PC/Laptop) and up to two A1006 secure authenticator devices mounted on a socketed demo board. A microcontroller acts as a bridge between the PC's USB socket and the A1006 interfaces, which can be software configured as either OWI or I2C.

The demo board allows a user to set different voltage and pullup resistor settings. Other settings, such as I2C address and user memory contents can be updated through the GUI. A full authentication including certificate validation and an ECDH challenge-response can be performed in a single step or multi-step sequence from the host GUI.



## Specifications

### Technical and Functional Specifications

|                |  |
|----------------|--|
| <b>Sensors</b> | Small package/footprint options – 1 mm <sup>2</sup> (WLCSP4) and 4 mm <sup>2</sup> (HXSON6)  |
| <b>Support</b> | Support for I <sup>2</sup> C and One Wire (OWI) interfaces   |
|                | <ul style="list-style-type: none"> <li>• Elliptic Curve Based Authentication</li> <li>• Elliptic Curve Diffie Hellman challenge-response protocol</li> <li>• ECDSA digitally signed X.509 certificates</li> <li>• Invasive Attack Countermeasures</li> <li>• Fault Attack Countermeasures</li> <li>• Side-channel Attack Countermeasures</li> <li>• Bus powered OWI interface protected to 8 kV IEC61000-4-2</li> <li>• Very low (&lt;550 μA) power consumption</li> </ul> |

