

Home / Security and Authentication / Demonstration Kit for A1006 Secure Authenticator Solutions

OM13589: Demonstration Kit for A1006 Secure Authenticator Solutions

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Overview

Specifications

Buy

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.



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Specifications

Technical and Functional Specifications

	Small package/footprint options – 1 mm ² (WLCSP4) and 4 mm ² (HXSON6)
Support	Support for I ² C and One Wire (OWI) interfaces
	Elliptic Curve Based Authentication
	Elliptic Curve Diffie Hellman challenge-response protocol
	ECDSA digitally signed X.509 certificates
	Invasive Attack Countermeasures
	Fault Attack Countermeasures
	Side-channel Attack Countermeasures
	Bus powered OWI interface protected to 8 kV IEC61000-4-2
	 Very low (<550 μA) power consumption

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