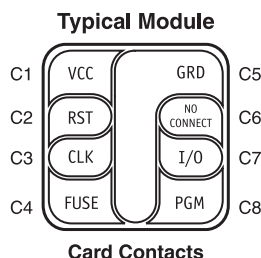# Technical Brief

CLXSA001KK1
Smart Card

DESCRIPTION

The CLXSA001KK1 Smart Card is a low cost synchronous smart card designed for prepaid applications and secure small record storage. The memory is protected, after personalization, by blowing a fuse. This is an irreversible process, which secures critical memory areas of the device.

The CLXSA001KK1 provides 1024 bits of serial EEPROM within one Application Zone, plus 64 bits in a Code Protected Zone. Additional EEPROM memory and security logic provide security for smart card applications.

Typical Module

C1	VCC	GRD	C5
C2	RST	NO CONNECT	C6
C3	CLK	I/O	C7
C4	FUSE	PGM	C8

Card Contacts

The CLXSA001KK1 is supported by CardLogix application software, including the Movie Gold API, the Trakplex API, and the Winplex™ API for multiple reader environments. Each of these APIs also provides added security options for sensitive data.
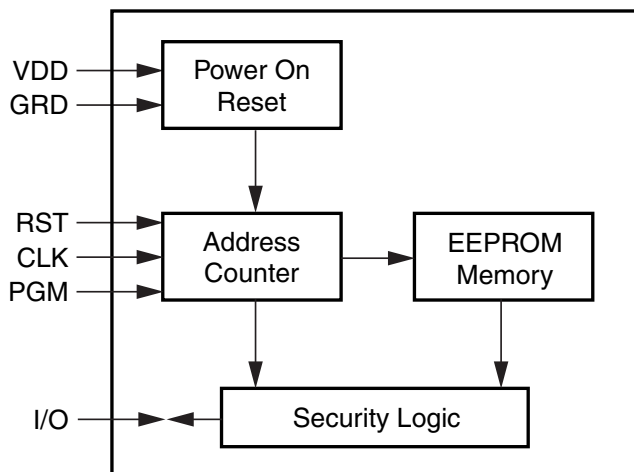
The CLXSA001KK1 is available in the ISO 7810, CR-80, SIM/SAM, and Keychain form factors.

FEATURES

- Voltage operating range: 2.7 V to 5.5 V

- Single Application Zone 1k x 1

- Industry standard 7816-3 sychronous protocol

- 8 password retries before lockout

- 2 ms typical write cycle time, 2 μs read cycle time

- Filtered inputs for noise suppression

- Power on/off data protection circuitry

- Endurance: 100,000 E/W cycles guaranteed

- Electrostatic discharge protection > 4,000 V

- Data retention > 25 years

BLOCK DIAGRAM

CardLogix

16 Hughes, Suite 100 • Irvine, California 92618 • **PH: (949) 380-1312 • FAX: (949) 380-1428**