

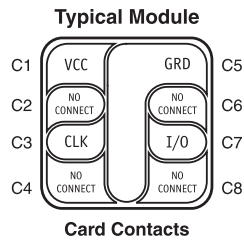
# CLXSA256KA5 Smart Card

## DESCRIPTION

The CardLogix CLXSA256KA5 Smart Card incorporates a 262,144 Bit Serial Electrically Erasable PROM in a 32,768 by 8 architecture. This card is for advanced, low power applications such as large record storage and other applications where low cost per bit is a driving factor.

The CLXSA256KA5 offers a memory array that features ultra-high endurance EEPROM for data that changes frequently. The whole array (256K bits total) is guaranteed at 1,000,000 ERASE/WRITE (E/W) cycles.

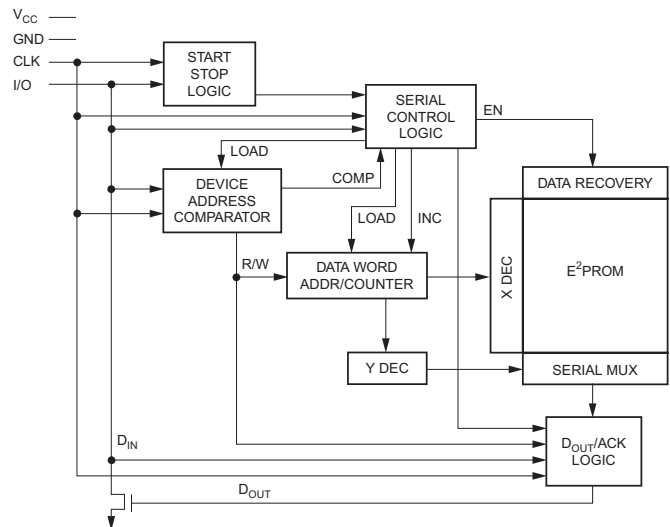
The CLXSA256KA5 is available in the ISO 7816, CR-80, SIM/SAM, and Keychain form factors.



## FEATURES

- Voltage operating range: 2.7 V to 5.5 V
  - Peak write current 3 mA at 5V
  - Maximum read current 2 mA at 5 V
  - Standby current 6  $\mu$ A typical at 5.5 V
- Industry standard two wire bus protocol
- 64-byte page, or single-byte write modes available
- 5 ms maximum write cycle time, byte or page
- Includes 400 kHz (2.7 V) and 1 MHz (5.0 V) compatibility
- Filtered inputs for noise suppression
- Power on/off data protection circuitry
- Endurance: > 1,000,000 E/W cycles guaranteed
- Electrostatic discharge protection > 4,000 V
- Data retention > 40 years

## BLOCK DIAGRAM



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