

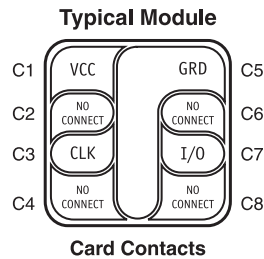
CLXSA128KA4 Smart Card

DESCRIPTION

The CardLogix CLXSA128KA4 Smart Card incorporates a 131,072 Serial Electrically Erasable PROM in a 16,384 by 8 architecture. This card is ideal for advanced, low power applications such as large record storage and medical applications where low cost per bit is a driving factor.

The CLXSA128KA4 offers a memory array that features an ultra-high-endurance EEPROM for data that changes frequently. The whole array (128K bits total) is guaranteed at 1,000,000 ERASE/WRITE (E/W) cycles.

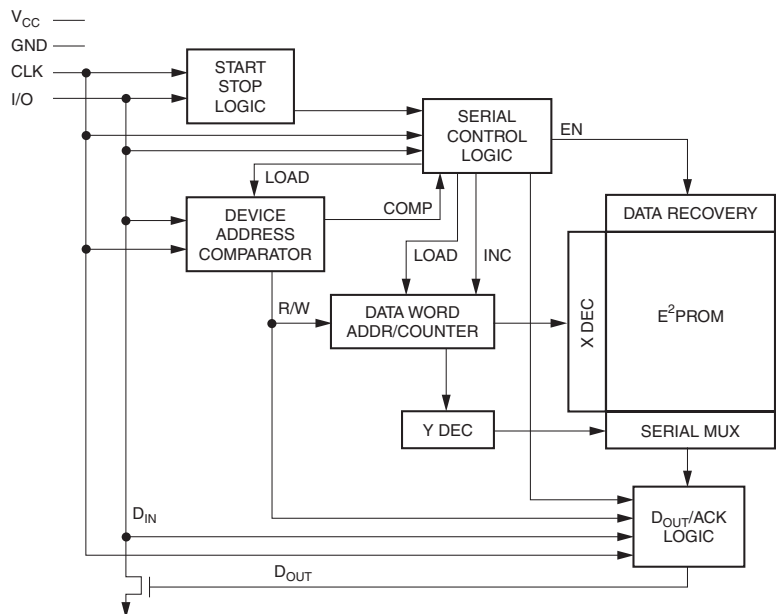
The CLXSA128KA4 is available in the ISO 7816, CR-80, SIM/SAM, and Keychain form factors.



FEATURES

- Voltage operating range: 2.5 V to 5.5 V
 - Peak write current 3 mA at 5.0 V
 - Maximum read current 1 mA at 5.0 V
 - Standby current 6 μ A maximum at 5.5 V
- Industry standard two wire bus protocol
- 64-byte page, or single-byte modes available
- 5 ms typical 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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