

CLXSA512KD5

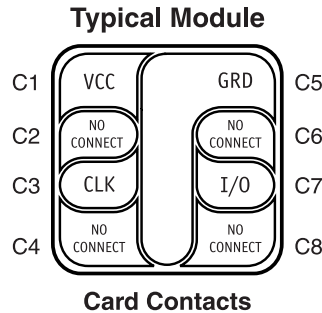
Smart Card

DESCRIPTION

The CardLogix CLXSA512KD5 Smart Card incorporates a 524,288 Bit Serial Electrically Erasable PROM in a 65,536 by 8 architecture. This card is for advanced, low power applications such as large record storage and medical applications where low cost per bit is a driving factor.

The CLXSA512KD5 offers a straight memory array that features ultra-high-endurance EEPROM for data that changes frequently. The whole array, of 512K bits, is guaranteed at 100,000 ERASE/WRITE (E/W) cycles. The CLXSA512KD5 advanced CMOS technology makes this device ideal for low-power non-volatile data storage applications.

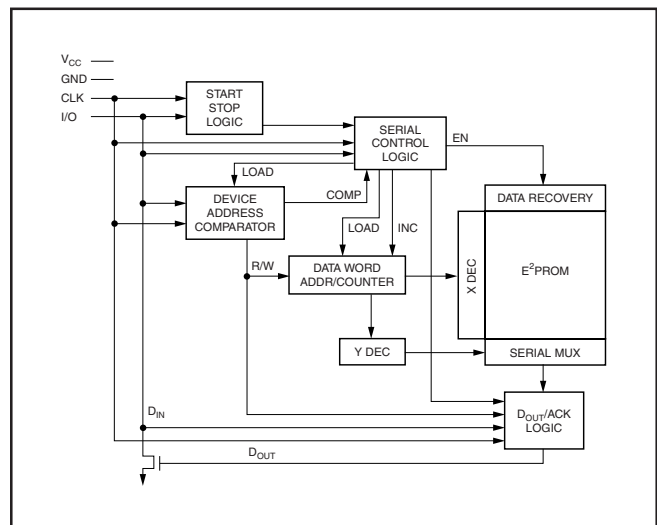
The CLXSA512KD5 is available in the standard ISO 7816, CR80 package or SIM block size.



FEATURES

- Voltage operating range: 2.7V to 5.5V
 - Peak write current 3 mA at 5V
 - Maximum read current 2 mA at 5V
 - Standby current 2.7V to 5.0V
- Industry standard two wire bus protocol
- 128-byte page, or byte write modes available
- 5 ms typical write cycle time, byte or page
- Includes 1 MHz (5V) and 400 kHz (2.7V) compatibility
- Filtered inputs for noise suppression
- Power on/off data protection circuitry
- Endurance: >100,000 write cycles guaranteed
- Electrostatic discharge protection > 4,000V
- Data retention > 40 years

Figure 1. Block Diagram



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