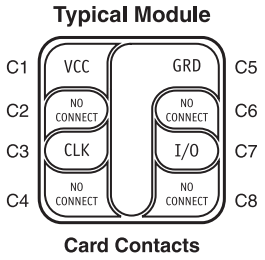
Technical Brief

CLXSA064KA3
Smart Card

DESCRIPTION

The CardLogix CLXSA064KA3 Smart Card incorporates a “smart” 8K x 8 Serial EEPROM. This card is for advanced, low power applications such as record storage and gives the systems designer flexibility through the use of many new user programmable features.



The 8192 x 8-bit array, is rated at 1,000,000 ERASE/WRITE (E/W) cycles guaranteed. CMOS technology makes this card ideal for low-power, non-volatile data storage applications.

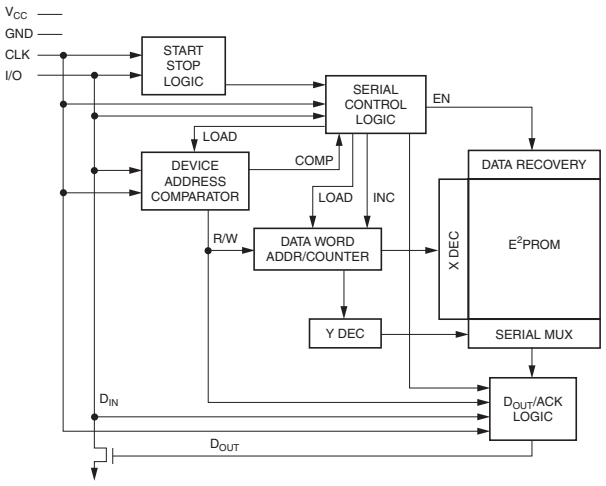
Program development is supported through the Smart Toolz™ development kit, Winplex™ API, and CardAppz™ application software.

The CLXSA064KA3 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 5.5 V
  - Maximum read current 1 mA at 5.5 V
  - Standby current 2 µA typical at 5.0 V
- Industry standard two wire bus protocol
  - I²C™ compatible
- Page write, or byte write modes available
- 10ms maximum write cycle time, byte or page
- Includes 100 kHz (2.5V) and 400 kHz (5.0V) compatibility
- Filtered inputs for noise suppression
- Self-timed ERASE and WRITE cycles
- Power on/off data protection circuitry
- Endurance: 1,000,000 E/W cycles guaranteed
- Electrostatic discharge protection > 4,000 V
- Data retention > 100 years

BLOCK DIAGRAM



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