

# SRAM

## 'SECURE' MEMORY CARD

**68-pin, Type I, PCMCIA Memory Card (512KBytes)  
with Security and Counter Features**

### Features

- PCMCIA Rel. 2.01 conformity
- Microprocessor-based implementation for customization
- Software-based Read and/or Write protect
- Four separate 'Usage' Counters ('Postage-Meter' type of applications) stored in NVRAM
- Access to decrementing of Counters through level 1 password
- Reset of Counters through level 2 password
- Single byte commands for different features
- Syntax and checksum checked on commands
- Simple host commands for communicating with the microprocessor
- Communication registers located in Attribute Memory space
- Simple Pseudo Random Sequence (PRS) for 'Security-key' applications
- Programmable initial condition of PRS generator for uniqueness like a combination lock
- Watchdog reset for error recovery
- 3-year guaranteed battery life for data retention
- Available secondary rechargeable battery for data retention
- Ideal for OEM security applications
- DOS interface software provided for setting up security and counter funtions
- Software drivers provided

### Functionality

The SRAM functions of the card work like a regular PCMCIA RAM card.

The special functions are accessed through memory locations in the card's attribute memory space beyond 8KB addressing. Simple command set is used to communicate with the microprocessor. The card can be programmed to secure data from read and/or write on power-up.

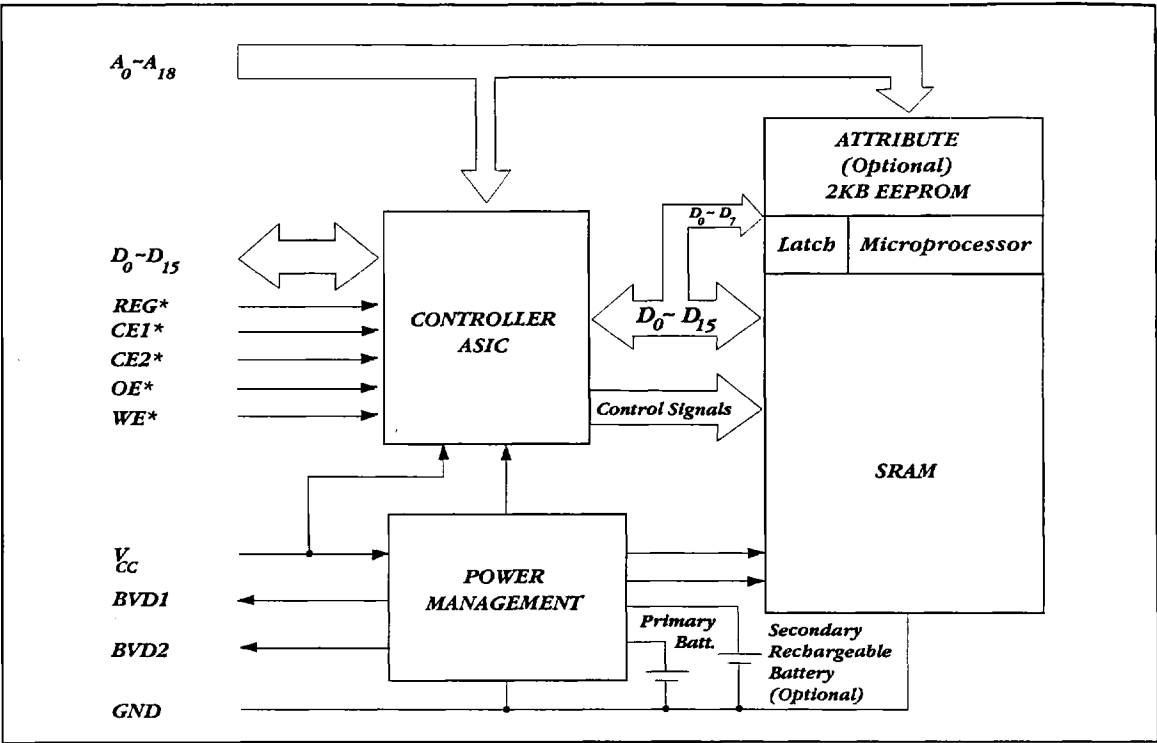
Two levels of passwords can be programmed for first level of security. Unique pseudo random sequence can also be generated for each card as second level of security thus providing authenticity to the uniqueness of the card.

The card draws very low power in standby mode and data can be retained for atleast three years with the power supplied from the internal battery.

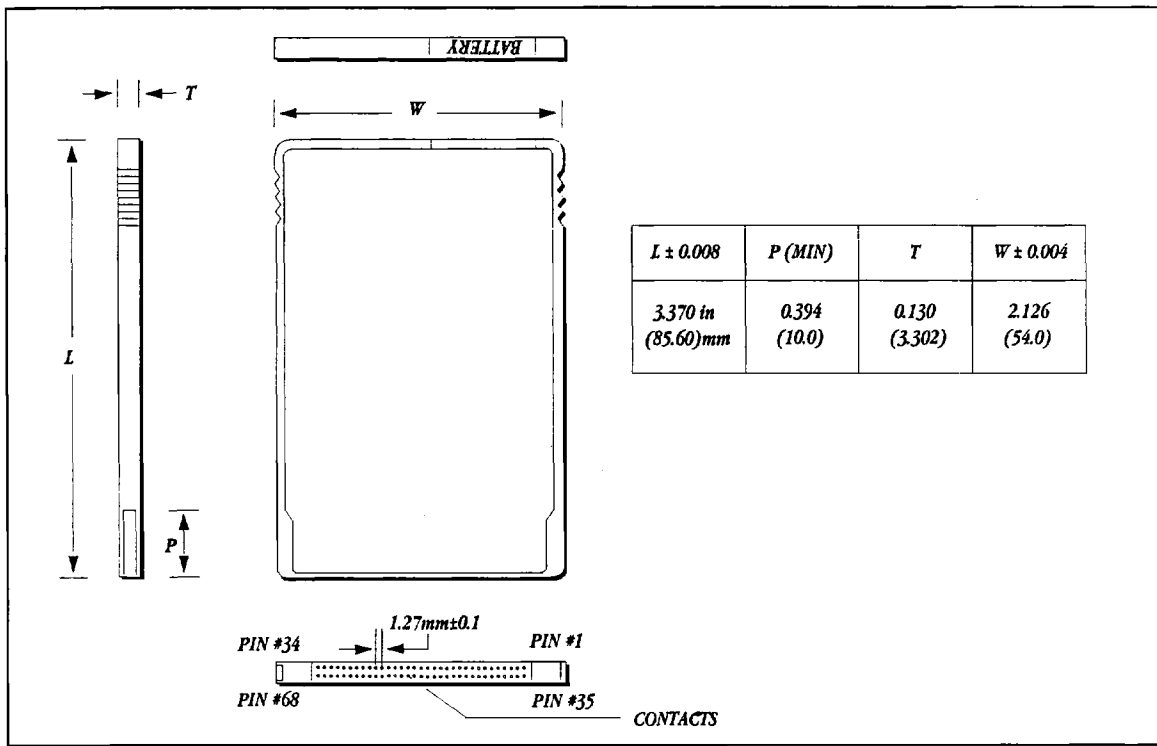
### Primary Specifications

Operating Voltage	5V $\pm$ 5%
Current Consumption	Active : 60 mA (x 16), 30 mA (x 8) / Standby : 0.3 mA
Interface	Parallel I/O 68-pin PCMCIA
Memory Back-up Period (25°C)	3 yrs.
Operating Temperature Range	0 to 55°C
Outer Dimensions	3.37" (L) x 2.126" (W) x 0.130" (T)
Weight	35 gms
Memory Back-up Battery	CR2025 x 1

Block Diagram



Outer Dimensions



Ordering Information

