

Memory Modules

Flash Products

DC-DC Converters

Communication Products

SRAM Rechargeable PC Card



SRAM Rechargeable PC Card

SMART Modular Technologies' SRAM PC Card products are high-speed, reprogrammable, non-volatile memory devices compatible with a range of mobile and embedded applications. These products are based on advanced CMOS technology to provide low power consumption and reliable data retention.

SMART's patented Rechargeable PC Card incorporates a lithium ion battery and charging circuit that automatically maintains peak condition when in use. The recharge feature eliminates the danger of battery failure and data loss during critical times, the risk of damage to the host and module components when batteries are removed or inserted, and avoids the environmental harm posed when disposing of used batteries. By fully encasing the battery within an ultra-sonically welded housing, SMART SRAM Rechargeable PC Cards offer greater resistance to shock and vibration. SMART manufactures and markets SRAM products in a variety of form factors and capacities.

Standard SRAM Card Configurations

	SRAM Rechargeable Card Standard	SRAM Rechargeable Card Industrial	SRAM Lithium Removable
Package	Type I PCMCIA	Type I PCMCIA	Type I PCMCIA
Memory Capacity	256KB to 6MB	256KB to 6MB	256KB to 2MB
Configuration	1 or 4Mbit	1 or 4Mbit	1 or 4Mbit
Operating Voltage	5V ± 5%	5V ± 5%	5V ± 5%
Power			
Standby*	0.4mA	0.4mA	0.4mA
Operating	120mA	120mA	120mA
Access Time	150ns	150ns	150ns
Temperature			
Operating:	10°C to 60°C	-10°C to 70°C	10°C to 60°C
Storage:	10°C to 60°C	-10°C to 70°C	-20°C to 80°C
Reliability Read/Write	100,000 cycles	100,000 cycles	100,000 cycles
Battery Life	5 Years	5 Years	1 Year
Data Retention Without Power (256K)	6 Months	6 Months	1 Year

SRAM Card Options

Temperature Rating

- Commercial
- Industrial

Capacity

- Cards available in 256K, 512K, 1MB, 2MB, 4MB, and 6MB configurations.

Data Mode

- PCMCIA Compliant 8 or 16 bit
- PCMCIA Compatible 8 or 16 bit
 - 8 word byte only direct addressing
 - 16 word byte only direct addressing
- JEIDA 6.1 Compliant

Options

- Rechargeable or Replaceable Battery
- Attribute Memory
- Write Protect Switch

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