

# Pretec SRAM Card Application Guide Version: 1.2

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Windows operating systems do not natively support linear flash and SRAM cards, but they can easily be made to work. Just follow the appropriate instructions below for your operating system.

## SRAM and Windows XP Work Around for PC Card SRAM

SRAM Cards do not come with drivers, it has always been the OS vendor's responsibility to include support for these devices. Unlike previous versions of Windows, SRAM drivers traditionally included on Windows distributions are not included with Windows XP. The following information explains a work around to get Windows XP to recognize and use PC Card SRAM. Be certain Windows XP is up to date with the latest Service Packs and the host hardware correctly supports PC Cards.

Please note that Pretec provides this work around as a customer service and **does not guarantee** that will work with every system configuration.

1. Insert the SRAM card into the PC Card slot
2. When the 'Hardware Wizard' appears, select '**Install from a list or specific location (advanced)**'
3. Click 'Next'
4. Select '**Don't search I will choose the driver to install**'
5. Click 'Next'
6. Scroll through the list of choice and select '**PCMCIA and Flash memory devices**'
7. Click 'Next'
8. Double click '**generic**' under the Manufacturer listing
9. Select '**Generic PCMCIA Memory Card**' from the Model listing
10. Click 'Next'
11. Click the 'Yes' button when the warning dialog appears, to dismiss it
12. Click 'Finish' when the 'Completing the found new hardware wizard' dialog appears.
13. Restart Windows

## [SRAM and Windows 98/ME Work Around for PC Card SRAM](#)

Note! Instead of WIN98 CD, please use the downloaded drivers.

[Go to http://www.vikant.com/help\\_03.htm](http://www.vikant.com/help_03.htm) to **DOWNLOAD** the Driver for Windows98/ME

Click on the link above to download ftl.exe on your computer, use **OPEN** button to download and start WinZip Self\_Extractor, click on **UNZIP** button to unzip files to the folder C:\SramDriver\ftl

Start the installation of trueffs.inf like it says down below in the instructions, if asked for tffsprop.dll using browse option point to C:\SramDriver\ftl and select tffsprop.dll.

### **How to use SRAM card in notebook with WindowsME:**

1. In Windows Explorer, go to the **C:\SramDriver\ftl**
2. **Right-click** the file **Trueffs.inf**, and then click **Install**.
3. **Restart** your computer.

### **How to use SRAM card in notebook with Windows98:**

1. Two lines need to be added in the **c:\config.sys** file:

```
device=c:\windows\system\csmapper.sys
```

```
device=c:\windows\system\carddrv.exe /slot=2
```

2. In Windows Explorer, go to the **C:\SramDriver\ftl\trueffs.inf** to install drivers:

- 1) Remove all SRAM cards from the socket.
- 2) **Right-click** on **Trueffs.inf** to install drivers, this will create

a directory in windows directory called TFFS9X.

- 3) Once this directory is installed, all of necessary drivers are installed.
- 4) Restart your system.

3. Two removable disks will appear. Insert SRAM card in the socket, then

you can use this SRAM card by these two removable disks.

## [How do I charge an industrial rechargeable SRAM card?](#)

Most notebook computers can be used to re-charge the SRAM card. Keep in mind that power management must be disabled both in BIOS, as well as in Windows. When power management is enabled power is removed from the slot within a few minutes, the card needs to be charged from 6 to 8 hours.

## **Pretec PCMCIA SRAM PC Card Spec**

### **Features**

- **PCMCIA compliant**
- **PCMCIA Type I form factor**
- **Solid state memory technology for high read/write speed of 200ns**
- **Extremely rugged and reliable**
- **Low power operation for maximum battery life**
- **Dual battery design for data retention**
- **BVD1/BVD2 pins used as battery voltage level detection signals**
- **Battery case lock system**
  - Secure battery in the card
  - Ease of battery change
- **Mechanical write protect switch prevents overwriting valuable data**
- **Applications for PC, PDA, PCA, Industrial Control, Embedded System, instrumentation, Communication, etc.**
- **Options:**
  - Attribute memory (8Kbytes)
  - Attribute memory (2Kbytes) : **EOL**

## Specifications

### Dimensions:

- Type I card: 85.6mm(L) x 54mm(W) x 3.3mm(H)
- Weight: 42.5 g or 1.5 oz

### Storage Capacities:

- 256K, 512K, 1M, 2M, 4M, and 6M

### System Compatibility:

- Hewlett Packard 95/100/200LX
- Apple Newton Message Pad
- SONY Magic Link
- SHARP Zaurus
- CASIO Z-7000
- HP Omnibook series
- FATO CL408 Printer
- Chinon's ES-3000 Digital Cameras
- IBM compatible Notebook PCs, Laptops, Palmtops, or Hand-held devices, etc.

### Operating System Support:

- DOS ( [Software : Wincard.exe](#))
- 2000, XP (**For Windows 2000 & XP, the SRAM cards must have attribute**)

### Performance:

- Access time: 200ns

### Main Battery:

- BR2325 Rayovac/Panasonic
- CR2325 FDK
- CR2025 Toshiba/Panasonic/FDK

### Operating Voltage: 5V +/- 5%

### Power Consumption:

- Active Mode: 120 mA (max)
- Standby mode: 0.4 mA (max)

These high speed type I PCMCIA SRAM cards are available with or without attribute memory for "plug and play" compatibility. You may use these Static RAM (SRAM) cards for palmtop / PDA / hand-held PC (HPC), Pfaff sewing machine, music keyboard/synthesizer, routers, monitoring and data collection/storage devices, laptop/notebook PCs, PCMCIA equipped PCs, etc. These SRAM cards are designed with the dual backup battery - a replaceable but non-rechargeable 3V lithium battery (primary battery) and an on-board

rechargeable but non-replaceable battery (secondary battery) for data retention. This design allows the replacement of primary battery without the data loss. The digital signals will alarm the user the need of primary battery replacement. The write protect switch on the SRAM card provides protection from inadvertent erasure.

The 8KB attribute memory is used for Card Information Structure (CIS) storage. The CIS describes the characteristics and capabilities of the card so the host system can automatically configure it. Some device need this optional attribute memory for CIS. **It is recommended to choose SRAM memory cards with the 8K attribute memory if you are not sure which type is used by your devices** since most of the devices using SRAM card without attribute memory can also use SRAM card with attribute memory.

The SRAM card contains a replaceable but non-rechargeable 3V lithium battery and an on-board rechargeable but non-replaceable battery for data retention. The replaceable lithium battery normally last 1 ~ 2 years.

## Sales/Marketing PN Guide **A/M: Attribute Memory**

M86187 Compliant 8bit and 16bit compatible		
Capacity	Without A/M	With 8KB A/M
256KB	SN5256	S65256
512KB	SN5512	S65512
1MB	SN5001	S65001
2MB	SN5002	S65002
4MB	SN5004	S65004
6MB	SN5006	S65006