

# Linear Flash PCMCIA Memory PC Cards Intel Series II LFP Line



Synchrotech PC Card Type I **Linear Flash** is fully FTL and FFS compatible and features high performance. With no moving parts, a **Linear Flash** PC Card is rugged and operates reliably in conditions normally hostile to data. Linear Flash Memory PCMCIA Memory PC Cards are supported by many palmtops, hand-held devices, sub-notebook PCs, PDA, PCA, or Digital Cameras equipped with PC Card slots supporting Series II/II+ Linear Flash cards. The optional 2K byte 'attribute memory' space retains Card Information Structure (CIS). Unlike ATA Flash, Linear Flash PC Cards support true random access so reads are extremely fast. In addition to data storage and retrieval, **Linear Flash** PCMCIA PC Cards can also execute programs directly from the Linear Flash Card on systems featuring XIP (eXecute In Place) capabilities. XIP is often utilized in vertical market applications and embedded systems. The **Linear Flash** memory cards are offered in a variety of read/write voltages with typical access times of 150ns.

## Part Number and Description

### SERIES II 12/5V INTEL/SHARP 28F008SA ATTRIBUTE

**PCM-LFPS2D-A02** Synchrotech 2MB Linear Flash With Attribute Intel Series II LFP Line

**PCM-LFPS2D-A04** Synchrotech 4MB Linear Flash With Attribute Intel Series II LFP Line

**PCM-LFPS2D-A08** Synchrotech 8MB Linear Flash With Attribute Intel Series II LFP Line

**PCM-LFPS2D-A16** Synchrotech 16MB Linear Flash With Attribute Intel Series II LFP Line

**PCM-LFPS2D-A32+** Synchrotech 32MB Linear Flash With Attribute Intel Series II LFP Line

## Optional Accessories

**Card Cases:** Clear PCMCIA PC Card Hard Cases for ATA Flash, SRAM, and Linear Flash

# Features and Specifications



## Features

- PCMCIA Type I form factor
- Extremely rugged and reliable
- Industry standard PCMCIA 2.x compliant
- High performance read access of 200 ns and random writes of 10  $\mu$ sec typical word write
- Proven compatibility with popular industry standard Flash File Systems (FFS) or Flash Translation Layer (FTL)
- Applications for PC, PDA, PCA, Industrial Control, Embedded System, instrumentation, Communication
- Supports Erase Suspend to Read command keeping Erase as a background task
- Mechanical Write protect switch prevents overwriting valuable data
- Very low power consumption with automatic power management
- No battery required for data retention or backup

## Warranty Information

- 1 Year Limited Warranty

## Flash Specifications

- Compatibility: Intel Series II
- CIS in EPROM: Standard on attributed cards
- Flash Type: 28F008SA

## Physical Dimensions

- Type I card: 85.6 x 54 x 3.3mm (LWH)
- Weight: 42.5g

## System Compatibility

- Apple Newton Message Pad
- Chinon ES-3000 Digital Cameras
- HP Omnibook series
- IBM compatible Notebook PCs, Laptops, Palmtops, or Hand-held devices, etc.
- Sharp Zaurus PDA

## Third Party Software Support

- [CSM Standard PC Card Manager Software](#) (with USB OmniDrive Reader)
- [CSM Standard PC Card Manager Software](#) (with EPP OmniDrive Reader)
- [CSM Standard PC Card Manager Software](#)
- [Elan Memory Card Explorer](#)

#### Operating System Support

- DOS, Microsoft Windows 3.x and Windows 95 (with TFFS)

#### Performance

- Read Access time: 200ns (max)
- Random Write Access: 10µsec (typical)

#### Reliability

- 100,000 write/erase cycles per card (min)

#### Electrical Characteristics

- Operational Voltage Read: 5 Volts  $\pm$  5%
- Operational Voltage Write/Erase: 12 Volts  $\pm$  5%

#### Power Consumption

- Read access: 110 mA (max)
- Write/Erase: 70 mA (max)
- Standby mode: 1.5 uA (max)

#### Operating Environment

- Temperature Operating: 0 to 70° C
- Temperature Storage: -40 to 125° C
- Relative Humidity: 95% (max.) non-condensing

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**Synchrotech, a Division of Synchronized Technologies, Inc.**

3333 Wilshire Boulevard, Suite 806 • Los Angeles, CA 90010

TEL: 213.368.3760 • TEL USA: 800.793.9207 • FAX: 213.368.3765