

PCMCIA Memory Cards & IDE Drives



Wide Selection of Data Storage Devices

White Electronic Designs offers PCMCIA memory cards in SRAM, linear flash, and ATA flash technologies and has the widest capacity range on the market; 128kB to 4GB. Our PCMCIA memory cards are available in standard PCMCIA type I, II, and III form factors. Our IDE Drives are offered in 2.5" form factors. We have the right data storage solution to meet your needs.

PCMCIA – The Memory Cards

PCMCIA memory cards, sometimes called PC cards, are credit card-size peripherals that add memory and mass storage capabilities to computers in a rugged, compact form factor. They follow PCMCIA standards and are ideal for applications where mobility, ruggedness, low power, and small size are critical.

PCMCIA – The Organization

Personal Computer Memory Card International Association (PCMCIA) is a non-profit international trade association and standards body that promotes interchangeable PC card technology by defining technical standards and educating the market.

IDE Drives

Integrated Drive Electronics (IDE) is a standard electronic interface between a computer's data paths and its disk storage devices. Our IDE drives use the standard interface and flash memory to replace traditional rotating disk drives. These data storage systems fit into any standard disk drive bays and are ideal for mobile computing applications.

Standard Features

- Standard 68-pin PCMCIA interface
- Largest overall capacity range: 128KB to 4GB
- Interchangeable
- Upgradeable
- High reliability
- Low power consumption
- Universal 3V to 5V operation for ATA flash
- Standard 5V operation for SRAM & linear flash (3V/5V optional)
- Inherently shock resistant: no moving parts
- Ideal for mobile, portable, and battery operated applications
- Custom solutions available to fit every need

SRAM

- Largest capacity currently available: 16MB
- Super low power consumption
- Fast access times
- Rechargeable lithium battery for data retention
- New larger capacity battery (optional)
- Write protect switch (optional)

Linear Flash

- Widest memory capacity range on market: 256KB to 192MB
- AMD compatible
- Intel compatible
- Write protect switch (optional)

ATA Flash

- Very large data storage capacity: up to 4GB
- Low cost data storage
- Universal wide operating voltage range: 3V to 5V
- DOS-compatible file format
- High speed data transfer
- High data reliability
- 3 variations of mode access
 - Memory card mode
 - I/O mode
 - True IDE mode
- Internal self diagnostic program, operates at Vcc power on

Compact Flash

- Large data storage 16MB to 4GB
- Compact Flash compatible host interface
- Universal wide operating voltage range: 3V to 5V
- High speed data transfer
- High data reliability
- 3 variations of mode access
 - Memory card mode
 - I/O mode
 - True IDE mode
- Internal self diagnostic program, operates at Vcc power on

IDE Drive

- Standard IDE interface
 - Software compatibility
 - Communication protocols
 - Uses standard peripheral connector cables
- Flash memory data storage
- Inherently shock resistant for harsh environments:
 - No moving parts
- Large capacity: up to 2GB
- Available in standard 2.5"
- Ideal for mobile, portable, and battery powered applications
- Commercial temperature operation: 0°C to +70°C
- Industrial temperature operation: -40°C to +85°C (optional)

PCMCIA Memory Cards & IDE Drives

While PC Card technology follows PCMCIA standards, White Electronic Designs leads the industry. Our long history of manufacturing high-reliability memory products gives us the knowledge and experience to design a wide array of data storage solutions.

| Density | Memory Device | Organization Format | Speed (MHz) | Voltage (V) | Product Family |
|----------------------------|----------------------------|---------------------|-------------|--------------|----------------|
| SRAM Cards | | | | | |
| 256KB - 6MB | 256KB, 1, 2, & 4MB | x16/x8 | 150 | 5 | SRA01-SRA04 |
| 256KB - 512KB | 256KB, 1, 2, & 4MB | x8 | 150 | 5 | SEA01-SEA04 |
| 256KB - 512KB | 256KB, 1, 2, & 4MB | x16/x8 | 150 | 3/5 | SRV01-SRV04 |
| 2MB - 16MB | 16MB | x16/x8 | 150 | 3/5 | SRV31-SRV34 |
| Flash Cards | | | | | |
| 256KB - 2.5MB | Catalyst 28F010 | x16/x8 | 150, 200 | 12/5 | FLG01 - FLG04 |
| 512KB - 5MB | Catalyst 28F020 | x16/x8 | 150, 200 | 12/5 | FLG05 - FLG08 |
| 2MB - 20MB | Intel/Sharp 28F008SA | x16/x8, S2 Req | 150, 200 | 12/5 | FLA21 - FLA24 |
| | | x16/x8 | 150, 200 | 5 | FLA51 - FLA54 |
| 2MB - 20MB | Intel/Sharp 28F008S5 | x16/x8, S2 Req | 150, 200 | 5 | FLA25 - FLA28 |
| | | x16/x8 | | | FLA55 - FLA58 |
| 4MB - 40MB | Intel/Sharp 28F016S5 | x16/x8, S2 Req | 150, 200 | 5 | FLA29 - FLA32 |
| | | x16/x8 | | | FLA59 - FLA62 |
| 2MB - 20MB | Intel/Sharp 28F008SC | x16/x8, S2 Req | 150, 200 | 3/5 | FLV21 - FLV24 |
| | | x16/x8 | | | FLV51 - FLV54 |
| 4MB - 40MB | Intel/Sharp 28F016SC | x16/x8, S2 Req | 150, 200 | 3/5 | FLV25 - FLV28 |
| | | x16/x8 | | | FLV55 - FLV58 |
| 2MB - 20MB | AMD 29F080B | x16/x8 | 150, 200 | 5 | FLB25 - FLB28 |
| 4MB - 40MB | AMD 29F016D | x16/x8 | 150, 200 | 5 | FLB21 - FLB24 |
| 1MB - 10MB | AMD 29F040B | x16/x8 | 150, 200 | 5 | FLC01 - FLC04 |
| 4MB - 40MB | AMD 29F017D | x16/x8 | 150, 200 | 5 | FLD21 - FLD24 |
| 8MB - 64MB | AMD 29F032B | x16/x8 | 150, 200 | 5 | FLE21 - FLE24 |
| 16MB - 80MB | Intel 28F640J5 | x16/x8 | 250 | 5 (Opt. 3/5) | FLF01 - FLF04 |
| 32MB - 192MB | Intel 28F128J3 | x16/x8 | 250 | 3/5 | FLF11 - FLF14 |
| Flash Value Cards | | | | | |
| 2MB - 8MB | Intel/Sharp 28F008SA | x16 | 100 | 12/5 | FVA01 - FVA02 |
| 2MB - 8MB | Intel/Sharp 28F008S5 | x16 | 150 | 5 | FVA03 - FVA04 |
| 4MB - 16MB | Intel/Sharp 28F016S5 | x16 | 150 | 5 | FVA05 - FVA06 |
| 8MB - 64MB | Intel 28F640J5/320J5 | x16 | 200 | 5 | FVF01 - FVF04 |
| 16MB - 64MB | Intel 28F128J3/640J3/320J3 | x16 | 200 | 3/5 | FVF11 - FVF14 |
| Flash Econo Cards | | | | | |
| 128KB - 512KB | Catalyst 28F010 | x8 | 200 | 12/5 | FEC01 - FEC02 |
| 128KB - 512KB | Catalyst 28F020 | x8 | 200 | 12/5 | FEC03 - FEC04 |
| 1MB - 4MB | Intel/Sharp 28F008SA | x8 | 150 | 12/5 | FEA01 |
| 1MB - 4MB | Intel/Sharp 28F008S5 | x8 | 150 | 5 | FEA03 |
| 2MB - 8MB | Intel/Sharp 28F016S5 | x8 | 150 | 5 | FEA05 |
| 1MB - 4MB | AMD 29F080B | x8 | 150 | 5 | FEB01 |
| ATA Flash Cards | | | | | |
| 32MB - 2GB | 256MB H5 | x16/x8 | 250 | 3/5 | ATA27 |
| 16MB - 2GB | 128MB, 256MB, 512MB, 1GB | x16/x8 | 250 | 3/5 | ATA33/38 |
| IDE Drives | | | | | |
| 16MB - 2GB | 128MB, 256MB, 512MB, 1GB | 2.5" IDE | 250 | 5 | IDE33/38 |
| Compact Flash Cards | | | | | |
| 16MB - 2GB | 128MB, 256MB, 512MB, 1GB | x16/x8 | 250 | 3/5 | CFA33/38 |

Our PCMCIA memory cards are designed to operate at commercial temperatures (0°C to +70°C) or at industrial temperatures (-40°C to +85°C). The cards can also be tested for extreme conditions in harsh environments.

For information on products and services contact our Corporate Headquarters:

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